Sample Name		SL-168-SA6-SB-2.0-3.0	SL-169-SA6-SS-0.0-0.5	SL-171-SA6-SS-0.0-0.5	SL-171-SA6-SB-4.0-5.0	SL-172-SA6-SS-0.0-0.5	SL-174-SA6-SS-0.0-0.5	SL-174-SA6-SB-2.0-3.0	SL-176-SA6-SS-0.0-0.5	SL-178-SA6-SS-0.0-0.5	SL-182-SA6-SS-0.0-0.5
Sample Date		08/12/2011	07/19/2011	07/19/2011	08/12/2011	07/19/2011	07/19/2011	08/11/2011	07/18/2011	07/19/2011	07/18/2011
Sample Type		N	N	N	N	N	N	N	N	N	N
SDG		DX128	DX115	DX115	DX128	DX115	DX115	DX127	DX114	DX115	DX114
Start Depth		2	0	0	4	0	0	2	0	0	0
End Depth		3	0.5	0.5	5	0.5	0.5	3	0.5	0.5	0.5
Chemical Name	Unit										
2,3,7,8-TCDD	ng/kg	1.04 U	1.99	0.996 U	1.10 U B	0.0595 J Z	0.966 U	1.04 U	0.0366 J Z	0.330 J Z	0.0483 J Z
1,2,3,7,8,9-HxCDD	ng/kg	0.387 J Z	63.3	1.56 J Z	5.50 UJ B, FD	0.901 J Z	0.439 J Z	5.21 U B	0.723 J Z	12.8	2.37 J Z
OCDD	ng/kg	10.4 U B	71800 J *#	695	3.27 J FD, Z	1510	139	10.4 U B	289	3000	2650
1,2,3,4,6,7,8-HpCDD	ng/kg	5.20 U B	2380 J *#	31.3	5.50 UJ B, FD	50.0	10.5	5.21 U B	18.8	321	152
OCDF	ng/kg	10.4 U B	524	5.85 J Z	11.0 U B	11.1	4.02 J Z	10.4 U B	5.26 J Z	214	14.9
1,2,3,4,7,8-HxCDD	ng/kg	5.20 U	28.6	0.632 J Z	5.50 UJ FD	5.32 U B	4.83 U B	5.21 U	0.247 J Z	6.24	1.08 J Z
1,2,3,7,8-PeCDD	ng/kg	0.0866 J Z	16.5	0.558 J Z	5.50 UJ FD	5.32 U B	4.83 U B	0.119 J Z	0.223 J Z	3.02 J Z	0.635 J Z
2,3,7,8-TCDF	ng/kg	1.04 U	2.83	0.996 U B	2.0 U B	1.06 U B	0.966 U B	0.101 J Z	0.207 J Z	0.792 J Z	0.107 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	0.0356 J Z	8.89	0.108 J Z	5.50 UJ FD	0.148 J Z	0.132 J Z	5.21 U B	4.81 U B	5.13	0.884 J Z
2,3,4,7,8-PeCDF	ng/kg	5.20 U B	6.88	0.316 J Z	5.50 UJ B, FD	0.870 J Z	0.491 J Z	5.21 U B	0.380 J Z	3.23 J Z	0.331 J Z
1,2,3,7,8-PeCDF	ng/kg	5.20 U B	4.12 J Z	4.98 U B	5.50 UJ B, FD	0.393 J Z	4.83 U B	0.103 J Z	0.396 J Z	1.84 J Z	0.246 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.122 J Z	7.61	0.173 J Z	5.50 UJ FD	0.193 J Z	4.83 U B	5.21 U B	0.223 J Z	3.34 J Z	0.457 J Z
1,2,3,6,7,8-HxCDD	ng/kg	0.292 J Z	79.5	1.41 J Z	5.50 UJ FD	1.38 J Z	0.383 J Z	0.154 J Z	0.819 J Z	11.3	3.13 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.20 U B	5.22	4.98 U B	5.50 UJ B, FD	5.32 U B	4.83 U B	0.113 J Z	0.268 J Z	5.09	0.483 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	0.234 J Z	111	1.58 J Z	5.50 UJ B, FD	2.90 J Z	1.69 J Z	5.21 U B	2.41 J Z	76.5	5.72
1,2,3,4,7,8-HxCDF	ng/kg	0.0403 J Z	19.0	4.98 U B	0.0258 J FD, Z	0.590 J Z	0.344 J Z	5.21 U B	0.460 J Z	4.10 J Z	0.595 J Z
1,2,3,7,8,9-HxCDF	ng/kg	0.202 J Z	4.88 U	4.98 U B	5.50 UJ B, FD	5.32 U B	4.83 U B	5.21 U	4.81 U B	0.628 J Z	4.95 U B
Aroclor 1260	ug/kg	1.8 U	170 U	1.7 U	1.9 U	0.73 J Z	1.1 J Z	1.8 U	1.5 J Z	25	2.4
Aroclor 1254	ug/kg	1.1 J Z	850	1.2 J Z	0.45 J FD, Z	1.8 U	1.2 J Z	1.8 U	1.7 U	75	1.7 U
Aroclor 1268	ug/kg	1.8 U	170 U	1.7 U	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	8.6 U	1.7 U
Aroclor 1221	ug/kg	1.8 U	170 U	1.7 U	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	8.6 U	1.7 U
Aroclor 5460	ug/kg	3.4 U	330 U	3.3 U	3.7 U	3.6 U	2.1 J Z	3.4 U	5.0	42	3.3 U
Aroclor 1232	ug/kg	1.8 U	170 U	1.7 U	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	8.6 U	1.7 U
Aroclor 5442	ug/kg	3.4 U	330 U	3.3 U	3.7 U	3.6 U	3.3 U	3.4 U	3.3 U	17 U	3.3 U
Aroclor 1248	ug/kg	1.8 U	170 U	1.7 U	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	8.6 U	1.7 U
Aroclor 1016	ug/kg	1.8 U	170 U	1.7 U	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	8.6 U	1.7 U
Aroclor 1262	ug/kg	1.8 U	170 U	1.7 U	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	8.6 U	1.7 U
Aroclor 1242	ug/kg	1.8 U	170 U	1.7 U	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	8.6 U	1.7 U
Aroclor 5432	ug/kg	3.4 U	330 U	3.3 U	3.7 U	3.6 U	3.3 U	3.4 U	3.3 U	17 U	3.3 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-182-SA6-SB-4.0-5.0	SL-182-SA6-SB-9.0-10.0	SL-183-SA6-SS-0.0-0.5	SL-183-SA6-SB-4.0-5.0	SL-183-SA6-SB-9.0-10.0	SL-184-SA6-SS-0.0-0.5	SL-185-SA6-SS-0.0-0.5	SL-185-SA6-SB-4.0-5.0	SL-185-SA6-SB-9.0-10.0
Sample Date		08/10/2011	08/10/2011	07/18/2011	08/10/2011	08/10/2011	07/18/2011	07/19/2011	08/10/2011	08/10/2011
Sample Type		N	N	N	N	N	N	N	N	N
SDG		DX127	DX127	DX114	DX127	DX127	DX114	DX115	DX127	DX127
Start Depth		4	9	0	4	9	0	0	4	9
End Depth		5	10	0.5	5	10	0.5	0.5	5	10
Chemical Name	Unit									
2,3,7,8-TCDD	ng/kg	1.05 U	1.12 U	0.0521 J Z	0.136 J Z	1.11 U	0.0873 J Z	0.0385 J Z	1.10 U	0.0961 J Z
1,2,3,7,8,9-HxCDD	ng/kg	5.25 U B	5.60 U B	0.802 J Z	5.48 U B	5.53 U B	1.68 J Z	1.02 J Z	5.52 U	5.57 U B
OCDD	ng/kg	3.62 J Z	11.2 U B	406	3.53 J Z	11.1 U B	680	557	3.90 J Z	11.1 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.25 U B	5.60 U B	28.2	5.48 U B	5.53 U B	71.4	32.0	5.52 U B	5.57 U B
OCDF	ng/kg	10.5 U B	11.2 U B	9.28 J Z	11.0 U B	11.1 U B	56.2	6.97 J Z	11.0 U B	11.1 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.25 U B	5.60 U	0.380 J Z	5.48 U B	5.53 U	0.792 J Z	0.471 J Z	0.475 J Z	5.57 U
1,2,3,7,8-PeCDD	ng/kg	0.146 J Z	0.287 J Z	0.232 J Z	0.203 J Z	5.53 U	0.461 J Z	5.22 U B	0.0631 J Z	5.57 U
2,3,7,8-TCDF	ng/kg	0.128 J Z	1.12 U	0.985 U B	1.10 U	1.11 U	0.598 J Z	1.04 U B	0.0786 J Z	1.11 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.25 U B	5.60 U B	4.92 U B	5.48 U	5.53 U B	1.01 J Z	0.230 J Z	5.52 U B	5.57 U B
2,3,4,7,8-PeCDF	ng/kg	5.25 U B	5.60 U B	4.92 U B	5.48 U B	5.53 U B	0.955 J Z	3.71 J Z	5.52 U B	5.57 U B
1,2,3,7,8-PeCDF	ng/kg	0.325 J Z	0.159 J Z	4.92 U B	0.233 J Z	5.53 U	0.728 J Z	0.773 J Z	0.0752 J Z	5.57 U
1,2,3,6,7,8-HxCDF	ng/kg	5.25 U B	0.197 J Z	0.201 J Z	5.48 U B	5.53 U	0.711 J Z	0.320 J Z	5.52 U	5.57 U
1,2,3,6,7,8-HxCDD	ng/kg	0.131 J Z	0.0984 J Z	0.932 J Z	0.136 J Z	5.53 U	2.59 J Z	1.14 J Z	5.52 U	0.0760 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.126 J Z	0.0407 J Z	0.243 J Z	0.0800 J Z	0.0399 J Z	0.904 J Z	0.328 J Z	5.52 U	5.57 U
1,2,3,4,6,7,8-HpCDF	ng/kg	5.25 U B	5.60 U B	3.90 J Z	5.48 U B	5.53 U B	20.9	2.63 J Z	5.52 U B	5.57 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.25 U B	5.60 U B	0.247 J Z	5.48 U B	5.53 U	1.78 J Z	0.619 J Z	5.52 U	5.57 U
1,2,3,7,8,9-HxCDF	ng/kg	5.25 U B	5.60 U B	4.92 U B	5.48 U B	5.53 U B	4.81 U B	5.22 U B	5.52 U	5.57 U
Aroclor 1260	ug/kg	1.8 U	1.9 U	0.48 J Z	1.9 U	1.9 U	7.1	3.0 J S	1.9 U	1.9 U
Aroclor 1254	ug/kg	1.8 U	1.9 U	1.7 U	1.9 U	1.9 U	24	1.8 U	1.9 U	0.63 J S, Z
Aroclor 1268	ug/kg	1.8 U	1.9 U	1.7 U	1.9 U	1.9 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.8 U	1.9 U	1.7 U	1.9 U	1.9 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.5 U	3.7 U	1.7 J Z	3.6 U	3.7 U	15	4.0 J S	3.7 U	3.7 U
Aroclor 1232	ug/kg	1.8 U	1.9 U	1.7 U	1.9 U	1.9 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.5 U	3.7 U	3.3 U	3.6 U	3.7 U	3.3 U	3.5 U	3.7 U	3.7 U
Aroclor 1248	ug/kg	1.8 U	1.9 U	1.7 U	1.9 U	1.9 U	16	1.8 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	1.8 U	1.9 U	1.7 U	1.9 U	1.9 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	1.8 U	1.9 U	1.7 U	1.9 U	1.9 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.8 U	1.9 U	1.7 U	1.9 U	1.9 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.5 U	3.7 U	3.3 U	3.6 U	3.7 U	3.3 U	3.5 U	3.7 U	3.7 U

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R - Result is rejected

Sample Name		SL-190-SA6-SS-0.0-0.5	SL-191-SA6-SB-0.0-1.0	SL-192-SA6-SS-0.0-0.5	SL-192-SA6-SB-4.0-5.0	SL-192-SA6-SB-9.0-10.0	SL-193-SA6-SS-0.0-0.5	SL-195-SA6-SB-1.0-2.0	SL-197-SA6-SB-4.0-5.0	SL-198-SA6-SB-4.0-5.0
Sample Date		07/25/2011	10/04/2011	07/25/2011	08/29/2011	08/29/2011	07/25/2011	08/25/2011	08/24/2011	08/31/2011
Sample Type		N	N	N	N	N	N	N	N	N
SDG		DX119	DX146	DX119	DX131	DX131	DX119	DX130	DX130	DX131
Start Depth		0	0	0	4	9	0	1	4	4
End Depth		0.5	1	0.5	5	10	0.5	2	5	5
Chemical Name	Unit									
2,3,7,8-TCDD	ng/kg	0.989 U B	0.0615 J Z	1.01 U B	0.0284 J Z	1.06 U	0.984 U	1.03 U	1.08 U	1.04 U
1,2,3,7,8,9-HxCDD	ng/kg	1.73 J Z	2.09 J Z	0.543 J Z	0.158 J Z	0.178 J Z	4.92 U B	0.124 J Z	0.246 J Z	0.149 J Z
OCDD	ng/kg	579	1550	140	37.5	67.5	46.4	7.21 J Z	3.67 J Z	22.7
1,2,3,4,6,7,8-HpCDD	ng/kg	86.0	125	14.2	3.52 J Z	6.42	5.72 U B	1.04 J Z	5.42 U B	2.17 J Z
OCDF	ng/kg	101	47.4	6.11 J Z	1.45 J Z	2.15 J Z	2.87 J Z	0.556 J Z	10.8 U B	1.15 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.875 J Z	1.29 J Z	5.03 U B	5.25 U B	5.32 U B	4.92 U B	5.16 U B	5.42 U B	5.21 U B
1,2,3,7,8-PeCDD	ng/kg	0.643 J Z	0.822 J Z	5.03 U B	0.0587 J Z	0.0290 J Z	4.92 U B	5.16 U B	0.275 J Z	0.0375 J Z
2,3,7,8-TCDF	ng/kg	2.45	0.419 J Z	0.245 J Z	1.05 U	0.0349 J Z	0.165 J Z	0.0478 J Z	1.08 U	1.04 U
1,2,3,4,7,8,9-HpCDF	ng/kg	1.48 J Z	1.65 J Z	5.03 U B	5.25 U B	5.32 U B	4.92 U B	5.16 U B	5.42 U B	5.21 U B
2,3,4,7,8-PeCDF	ng/kg	2.85 J Z	0.978 J Z	0.418 J Z	5.25 U B	5.32 U B	4.92 U B	0.504 J Z	0.329 J Z	5.21 U B
1,2,3,7,8-PeCDF	ng/kg	28.0	0.577 J Z	4.11 J Z	0.0986 J Z	0.0913 J Z	0.433 J Z	0.188 J Z	0.382 J Z	5.21 U B
1,2,3,6,7,8-HxCDF	ng/kg	1.21 J Z	1.24 J Z	0.271 J Z	0.152 J Z	0.119 J Z	4.92 U B	5.16 U B	0.215 J Z	5.21 U B
1,2,3,6,7,8-HxCDD	ng/kg	3.10 J Z	4.20 J Z	0.758 J Z	0.200 J Z	0.230 J Z	0.500 J Z	0.135 J Z	0.188 J Z	0.121 J Z
2,3,4,6,7,8-HxCDF	ng/kg	1.32 J Z	1.49 J Z	0.234 J Z	5.25 U B	5.32 U B	0.147 J Z	5.16 U B	0.134 J Z	5.21 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	25.7	17.8	3.25 J Z	1.12 J Z	1.27 J Z	1.73 J Z	5.16 U B	5.42 U B	5.21 U B
1,2,3,4,7,8-HxCDF	ng/kg	9.45	1.38 J Z	0.353 J Z	5.25 U B	5.32 U B	4.92 U B	5.16 U B	0.234 J Z	5.21 U B
1,2,3,7,8,9-HxCDF	ng/kg	0.446 J Z	0.380 J Z	5.03 U B	5.25 U B	5.32 U B	4.92 U B	5.16 U B	0.246 J Z	0.165 J Z
Aroclor 1260	ug/kg	17 U	3.0	2.3 J S	12	23	1.7 U	1.7 J Z	1.9 U	0.69 J Z
Aroclor 1254	ug/kg	130	7.3	1.7 UJ S	77	43	5.9	1.2 J Z	0.72 J Z	0.51 J Z
Aroclor 1268	ug/kg	17 U	1.7 U	1.7 UJ S	9.1 U	9.1 U	1.7 U	1.8 U	1.9 U	1.8 U
Aroclor 1221	ug/kg	17 U	1.7 U	1.7 UJ S	9.1 U	9.1 U	1.7 U	1.8 U	1.9 U	1.8 U
Aroclor 5460	ug/kg	33 UJ C	6.9	3.0 J S, Z	18 U	18 U	3.3 U	3.4 U	3.6 U	3.4 UJ E
Aroclor 1232	ug/kg	17 U	1.7 U	1.7 UJ S	9.1 U	9.1 U	1.7 U	1.8 U	1.9 U	1.8 U
Aroclor 5442	ug/kg	33 UJ C	3.3 U	3.3 UJ S	18 U	18 U	3.3 U	3.4 U	3.6 U	3.4 UJ E
Aroclor 1248	ug/kg	17 U	1.7 U	1.7 UJ S	9.1 U	9.1 U	1.7 U	1.8 U	1.9 U	1.8 U
Aroclor 1016	ug/kg	17 U	1.7 U	1.7 UJ S	9.1 U	9.1 U	1.7 U	1.8 U	1.9 U	1.8 U
Aroclor 1262	ug/kg	17 U	1.7 U	1.7 UJ S	9.1 U	9.1 U	1.7 U	1.8 U	1.9 U	1.8 U
Aroclor 1242	ug/kg	17 U	1.7 U	1.7 UJ S	9.1 U	9.1 U	1.7 U	1.8 U	1.9 U	1.8 U
Aroclor 5432	ug/kg	33 UJ C	3.3 U	3.3 UJ S	18 U	18 U	3.3 U	3.4 U	3.6 U	3.4 UJ E

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-198-SA6-SB-9.0-10.0	SL-199-SA6-SB-4.0-5.0	SL-200-SA6-SB-4.0-5.0	SL-201-SA6-SB-2.0-3.0	SL-204-SA6-SS-0.0-0.5	SL-204-SA6-SB-4.0-5.0	SL-205-SA6-SS-0.0-0.5	SL-205-SA6-SB-4.0-5.0	SL-206-SA6-SS-0.0-0.5	SL-206-SA6-SB-4.0-5.0
Sample Date		08/31/2011	08/31/2011	08/31/2011	08/31/2011	07/26/2011	09/06/2011	07/26/2011	09/07/2011	07/26/2011	10/04/2011
Sample Type		N	N	N	N	N	N	N	N	N	N
SDG		DX131	DX131	DX131	DX131	DX119	DX132	DX119	DX132	DX119	DX146
Start Depth		9	4	4	2	0	4	0	4	0	4
End Depth		10	5	5	3	0.5	5	0.5	5	0.5	5
Chemical Name	Unit										
2,3,7,8-TCDD	ng/kg	0.0512 J Z	0.0311 J Z	0.0261 J Z	0.0431 J Z	0.970 U B	0.0539 J Z	0.990 U B	1.09 U	0.162 J Z	1.04 U
1,2,3,7,8,9-HxCDD	ng/kg	0.226 J Z	5.41 U B	0.116 J Z	0.294 J Z	2.31 J Z	5.36 U B	1.73 J Z	5.45 U B	0.766 J Z	0.108 J Z
OCDD	ng/kg	17.7	5.37 J Z	8.74 J Z	361	1160	7.69 J Z	744 J Q	10.4 J Z	393	43.8
1,2,3,4,6,7,8-HpCDD	ng/kg	1.97 J Z	5.41 U B	1.37 J Z	27.0	84.4	5.36 U B	64.0	5.45 U B	33.7	3.58 J Z
OCDF	ng/kg	1.21 J Z	10.8 U B	11.1 U B	10.1	51.4	10.7 U B	50.1	1.04 J Z	8.96 J Z	1.38 J Z
1,2,3,4,7,8-HxCDD	ng/kg	5.36 U B	5.41 U	5.55 U B	0.265 J Z	1.26 J Z	0.0678 J Z	1.29 J Z	5.45 U	5.15 U B	0.0694 J Z
1,2,3,7,8-PeCDD	ng/kg	0.0369 J Z	5.41 U	5.55 U	0.114 J Z	0.557 J Z	0.167 J Z	0.547 J Z	5.45 U B	0.277 J Z	5.21 U B
2,3,7,8-TCDF	ng/kg	0.0393 J Z	1.08 U	1.11 U	0.0895 J Z	0.365 J Z	0.0632 J Z	21.8	0.360 J Z	0.422 J Z	0.100 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.36 U B	5.41 U B	5.55 U B	0.416 J Z	1.67 J Z	5.36 U B	1.45 J Z	5.45 U B	0.346 J Z	5.21 U B
2,3,4,7,8-PeCDF	ng/kg	5.36 U B	5.41 U B	5.55 U B	5.00 U B	0.636 J Z	5.36 U B	9.71	5.45 U B	0.758 J Z	5.21 U B
1,2,3,7,8-PeCDF	ng/kg	0.121 J Z	5.41 U B	5.55 U B	0.191 J Z	1.03 J Z	0.193 J Z	30.8	0.719 J Z	1.05 J Z	5.21 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.36 U B	5.41 U B	5.55 U B	0.166 J Z	1.18 J Z	5.36 U B	3.36 J Z	5.45 U B	0.322 J Z	5.21 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.150 J Z	0.0514 J Z	0.0786 J Z	0.984 J Z	2.84 J Z	5.36 U B	1.84 J Z	5.45 U B	1.13 J Z	0.132 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.36 U B	5.41 U B	5.55 U B	5.00 U B	1.41 J Z	5.36 U B	1.73 J Z	5.45 U B	0.290 J Z	5.21 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	1.08 J Z	5.41 U B	5.55 U B	4.33 J Z	19.6	5.36 U B	13.3	5.45 U B	3.50 J Z	5.21 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.36 U B	5.41 U B	5.55 U B	5.00 U B	2.02 J Z	5.36 U B	7.39	5.45 U B	0.622 J Z	5.21 U B
1,2,3,7,8,9-HxCDF	ng/kg	0.269 J Z	5.41 U	5.55 U B	0.166 J Z	0.397 J Z	5.36 U B	0.953 J Z	5.45 U B	0.335 J Z	5.21 U
Aroclor 1260	ug/kg	1.9 U	1.9 U	1.9 U	0.91 J Z	1.7 U	1.9 U	8.7 U	1.9 U	3.5	1.8 U
Aroclor 1254	ug/kg	0.62 J Z	2.0	0.57 J Z	3.0	4.3	1.9 U	67 J FD	19	14	1.8 U
Aroclor 1268	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.7 U	1.9 U	8.7 U	1.9 U	1.8 U	1.8 U
Aroclor 1221	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.7 U	1.9 U	8.7 U	1.9 U	1.8 U	1.8 U
Aroclor 5460	ug/kg	3.6 UJ E	3.6 UJ E	3.7 UJ E	3.5 UJ E	4.3	3.6 UJ E	17 U	3.7 U	5.5	3.5 U
Aroclor 1232	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.7 U	1.9 U	8.7 U	1.9 U	1.8 U	1.8 U
Aroclor 5442	ug/kg	3.6 UJ E	3.6 UJ E	3.7 UJ E	3.5 UJ E	3.3 U	3.6 UJ E	17 U	3.7 U	3.5 U	3.5 U
Aroclor 1248	ug/kg	1.9 U	1.9 U	2.1	1.8 U	1.7 U	1.9 U	8.7 U	1.9 U	1.8 U	1.8 U
Aroclor 1016	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.7 U	1.9 U	8.7 U	1.9 U	1.8 U	1.8 U
Aroclor 1262	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.7 U	1.9 U	8.7 U	1.9 U	1.8 U	1.8 U
Aroclor 1242	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.7 U	1.9 U	8.7 U	1.9 U	1.8 U	1.8 U
Aroclor 5432	ug/kg	3.6 UJ E	3.6 UJ E	3.7 UJ E	3.5 UJ E	3.3 U	3.6 UJ E	17 U	3.7 U	3.5 U	3.5 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-208-SA6-SB-4.0-5.0	SL-210-SA6-SB-4.0-5.0	SL-210-SA6-SB-9.0-10.0	SL-211-SA6-SS-0.0-0.5	SL-211-SA6-SB-1.5-2.5	SL-213-SA6-SS-0.0-0.5	SL-213-SA6-SB-4.0-5.0	SL-214-SA6-SS-0.0-0.5	SL-214-SA6-SB-1.0-2.0	SL-215-SA6-SS-0.0-0.5
Sample Date		08/24/2011	09/09/2011	09/09/2011	07/21/2011	08/18/2011	07/26/2011	08/31/2011	07/21/2011	08/19/2011	07/20/2011
Sample Type		N	N	N	N	N	N	N	N	N	N
SDG		DX130	DX133	DX133	DX116	DX128	DX119	DX131	DX116	DX129	DX116
Start Depth		4	4	9	0	1.5	0	4	0	1	0
End Depth		5	5	10	0.5	2.5	0.5	5	0.5	2	0.5
Chemical Name	Unit										
2,3,7,8-TCDD	ng/kg	0.0339 J Z	1.07 U	1.10 U	0.248 J Z	1.06 U	0.996 U B	1.06 U	1.08	0.0910 J Z	1.96
1,2,3,7,8,9-HxCDD	ng/kg	0.566 J Z	0.426 J Z	5.50 U B	7.05	5.29 U B	4.98 U B	0.278 J Z	51.7	0.229 J Z	48.6
OCDD	ng/kg	300	62.5	11.0 U B	5120 J *#	5.72 J Z	191	5.58 J Z	76100 J *#	10.7 U B	12900 J *#
1,2,3,4,6,7,8-HpCDD	ng/kg	26.6	5.33 J Z	5.50 U B	351 J Q	5.29 U B	15.6	5.29 U B	4390 J *#	5.34 U B	1090
OCDF	ng/kg	18.7	3.75 J Z	11.0 U B	273 J Q	10.6 U B	4.26 J Z	10.6 U B	4680 J *#	10.7 U	567
1,2,3,4,7,8-HxCDD	ng/kg	0.256 J Z	5.37 U B	5.50 U B	3.80 J Z	0.0404 J Z	4.98 U B	5.29 U B	26.6	0.159 J Z	21.1
1,2,3,7,8-PeCDD	ng/kg	5.42 U B	0.0904 J Z	5.50 U	1.63 J Z	0.0903 J Z	4.98 U B	0.156 J Z	10.9	5.34 U B	15.5
2,3,7,8-TCDF	ng/kg	0.0271 J Z	0.105 J Z	1.10 U	1.79	1.06 U	0.0682 J Z	0.0529 J Z	10.3	0.0765 J Z	4.29
1,2,3,4,7,8,9-HpCDF	ng/kg	0.568 J Z	5.37 U B	5.50 U	4.58 J Z	0.0378 J Z	4.98 U B	5.29 U B	36.8	0.0450 J Z	8.33
2,3,4,7,8-PeCDF	ng/kg	5.42 U B	5.37 U B	5.50 U B	2.02 J Z	5.29 U B	4.98 U B	5.29 U B	13.4	0.313 J Z	6.44
1,2,3,7,8-PeCDF	ng/kg	5.42 U B	0.189 J Z	5.50 U	1.49 J FD, Z	5.29 U B	4.98 U B	0.216 J Z	7.06	5.34 U	3.37 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.302 J Z	0.118 J Z	0.0462 J Z	2.16 J Z	0.0649 J Z	4.98 U B	0.131 J Z	14.9	5.34 U B	4.38 J Z
1,2,3,6,7,8-HxCDD	ng/kg	0.989 J Z	0.275 J Z	0.0461 J Z	11.3	0.0572 J Z	0.509 J Z	0.194 J Z	104	5.34 U B	47.3
2,3,4,6,7,8-HxCDF	ng/kg	0.450 J Z	5.37 U B	5.50 U B	2.90 J Z	5.29 U B	4.98 U B	5.29 U B	18.4	5.34 U B	5.66
1,2,3,4,6,7,8-HpCDF	ng/kg	8.82	0.952 J Z	5.50 U B	67.4	0.246 J Z	1.61 J Z	5.29 U B	908	5.34 U B	135
1,2,3,4,7,8-HxCDF	ng/kg	0.253 J Z	0.149 J Z	0.0584 J Z	3.83 J Z	0.0758 J Z	4.98 U B	5.29 U B	22.8	5.34 U B	7.95
1,2,3,7,8,9-HxCDF	ng/kg	0.148 J Z	0.359 J Z	0.0884 J Z	0.993 J Z	5.29 U B	4.98 U B	0.229 J Z	4.91 U	5.34 U B	1.92 J Z
Aroclor 1260	ug/kg	2.0	0.76 J Z	1.9 U	32	1.8 U	1.8 U	1.8 U	45 J Z	1.9 U	58
Aroclor 1254	ug/kg	4.4	0.64 J Z	1.9 U	42 J *#	1.8 U	0.72 J Z	1.8 U	120	1.9 U	76
Aroclor 1268	ug/kg	1.9 U	1.9 U	1.9 U	8.6 U	1.8 U	1.8 U	1.8 U	86 U	1.9 U	17 U
Aroclor 1221	ug/kg	1.9 U	1.9 U	1.9 U	8.6 U	3.4 U	1.8 U	1.8 U	86 U	3.5 U	17 U
Aroclor 5460	ug/kg	2.2 J Z	3.6 U	3.6 U	67 J C	3.5 U	3.5 U	3.6 UJ E	120 J Z, C	3.6 U	51
Aroclor 1232	ug/kg	1.9 U	1.9 U	1.9 U	8.6 U	1.8 U	1.8 U	1.8 U	86 U	1.9 U	17 U
Aroclor 5442	ug/kg	3.6 U	3.6 U	3.6 U	17 U	3.5 U	3.5 U	3.6 UJ E	170 U	3.6 U	33 U
Aroclor 1248	ug/kg	1.6 J Z	1.9 U	1.9 U	8.6 U	1.8 U	1.8 U	1.8 U	86 U	1.9 U	17 U
Aroclor 1016	ug/kg	1.9 U	1.9 U	1.9 U	8.6 U	1.8 U	1.8 U	1.8 U	86 U	1.9 U	17 U
Aroclor 1262	ug/kg	1.9 U	1.9 U	1.9 U	8.6 U	1.8 U	1.8 U	1.8 U	86 U	1.9 U	17 U
Aroclor 1242	ug/kg	1.9 U	1.9 U	1.9 U	8.6 U	1.8 U	1.8 U	1.8 U	86 U	1.9 U	17 U
Aroclor 5432	ug/kg	3.6 U	3.6 U	3.6 U	17 U	3.5 U	3.5 U	3.6 UJ E	170 U	3.6 U	33 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-215-SA6-SB-4.0-5.0	SL-216-SA6-SS-0.0-0.5	SL-217-SA6-SS-0.0-0.5	SL-217-SA6-SB-4.0-5.0	SL-217-SA6-SB-7.5-8.5	SL-218-SA6-SS-0.0-0.5	SL-219-SA6-SS-0.0-0.5	SL-219-SA6-SB-2.5-3.5	SL-220-SA6-SS-0.0-0.5	SL-221-SA6-SB-1.0-2.0
Sample Date		08/22/2011	07/21/2011	07/26/2011	09/09/2011	09/09/2011	07/20/2011	07/21/2011	08/18/2011	07/20/2011	08/17/2011
Sample Type		N	N	N	N	N	N	N	N	N	N
SDG		DX129	DX116	DX119	DX133	DX133	DX116	DX116	DX128	DX116	DX129
Start Depth		4	0	0	4	7.5	0	0	2.5	0	1
End Depth		5	0.5	0.5	5	8.5	0.5	0.5	3.5	0.5	2
Chemical Name	Unit										
2,3,7,8-TCDD	ng/kg	1.11 U	0.474 J Z	1.03 U	1.21 U	1.09 U	0.103 J Z	0.0721 J Z	1.05 U	0.898 J Z	1.06 U
1,2,3,7,8,9-HxCDD	ng/kg	5.53 U B	26.2	5.17 U B	0.584 J Z	5.46 U B	3.10 J Z	1.85 J Z	5.27 U B	39.0	5.29 U B
OCDD	ng/kg	46.8	21100 J *#	84.2	158	10.9 U B	1370	1050	10.5 U B	48200 J *#	19.5
1,2,3,4,6,7,8-HpCDD	ng/kg	3.27 J Z	1230	7.94	14.6	5.46 U B	132	88.2	5.27 U B	3210 J *#	2.06 J Z
OCDF	ng/kg	1.81 J Z	1840	5.29 J Z	4.10 J Z	10.9 U B	193	82.4	10.5 U B	3310	0.512 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.119 J Z	13.4	5.17 U B	6.05 U B	5.46 U	1.83 J Z	1.08 J Z	0.0244 J Z	25.4	5.29 U
1,2,3,7,8-PeCDD	ng/kg	5.53 U B	4.60 J Z	5.17 U B	0.165 J Z	5.46 U	0.656 J Z	0.451 J Z	0.0380 J Z	8.27	5.29 U
2,3,7,8-TCDF	ng/kg	0.0689 J Z	1.86	0.104 J Z	0.160 J Z	0.0927 J Z	0.484 J Z	0.866 J Z	1.05 U	7.00	1.06 U
1,2,3,4,7,8,9-HpCDF	ng/kg	0.0675 J Z	38.1	5.17 U B	6.05 U B	5.46 U	4.00 J Z	1.61 J Z	5.27 U	26.9	5.29 U
2,3,4,7,8-PeCDF	ng/kg	5.53 U B	3.35 J Z	5.17 U B	6.05 U	5.46 U B	0.570 J Z	0.704 J Z	5.27 U B	12.6	5.29 U B
1,2,3,7,8-PeCDF	ng/kg	5.53 U	2.88 J Z	0.310 J Z	0.193 J Z	0.0433 J Z	0.337 J Z	0.342 J Z	5.27 U B	3.76 J Z	5.29 U
1,2,3,6,7,8-HxCDF	ng/kg	5.53 U B	9.10	5.17 U B	0.126 J Z	0.0431 J Z	1.69 J Z	0.806 J Z	5.27 U	9.03	5.29 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.53 U B	27.9	5.17 U B	0.602 J Z	5.46 U	4.11 J Z	2.52 J Z	0.0514 J Z	86.2	5.29 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.53 U B	13.0	5.17 U B	6.05 U B	5.46 U	2.13 J Z	0.890 J Z	5.27 U B	14.1	5.29 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	0.539 J Z	362	2.20 J Z	1.57 J Z	5.46 U B	51.5	19.6	5.27 U B	685	5.29 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.53 U B	11.9	5.17 U B	0.195 J Z	0.0353 J Z	1.68 J Z	1.13 J Z	5.27 U	16.6	5.29 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.53 U B	1.58 J Z	5.17 U B	0.498 J Z	0.0353 J Z	0.305 J Z	0.383 J Z	5.27 U B	3.48 J Z	5.29 U B
Aroclor 1260	ug/kg	1.9 U	20	1.8 U	1.5 J Z	1.9 U	5.9	17 U	1.8 U	120	1.8 U
Aroclor 1254	ug/kg	0.85 J Z	29	1.5 J Z	3.1	1.9 U	6.5	14 J Z	1.8 U	210	0.55 J Z
Aroclor 1268	ug/kg	1.9 U	8.6 U	1.8 U	2.0 U	1.9 U	1.7 U	17 U	1.8 U	86 U	1.8 U
Aroclor 1221	ug/kg	3.6 U	8.6 U	1.8 U	2.0 U	1.9 U	1.7 U	17 U	3.4 U	86 U	2.8 U
Aroclor 5460	ug/kg	3.7 U	40 J C	3.5 U	1.9 J Z	3.6 U	15	33 U	3.5 U	130 J Z	3.5 U
Aroclor 1232	ug/kg	1.9 U	8.6 U	1.8 U	2.0 U	1.9 U	1.7 U	17 U	1.8 U	86 U	1.8 U
Aroclor 5442	ug/kg	3.7 U	17 U	3.5 U	4.0 U	3.6 U	3.3 U	33 U	3.5 U	170 U	3.5 U
Aroclor 1248	ug/kg	1.9 U	8.6 U	1.8 U	2.0 U	1.9 U	1.7 U	17 U	1.8 U	86 U	1.8 U
Aroclor 1016	ug/kg	1.9 U	8.6 U	1.8 U	2.0 U	1.9 U	1.7 U	17 U	1.8 U	86 U	1.8 U
Aroclor 1262	ug/kg	1.9 U	8.6 U	1.8 U	2.0 U	1.9 U	1.7 U	17 U	1.8 U	86 U	1.8 U
Aroclor 1242	ug/kg	1.9 U	8.6 U	1.8 U	2.0 U	1.9 U	1.7 U	17 U	1.8 U	86 U	1.8 U
Aroclor 5432	ug/kg	3.7 U	17 U	3.5 U	4.0 U	3.6 U	3.3 U	33 U	3.5 U	170 U	3.5 U

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J - Result is an estimated value
R - Result is rejected

Sample Name		SL-223-SA6-SB-2.5-3.5	SL-224-SA6-SB-3.0-4.0	SL-225-SA6-SB-3.0-4.0	SL-226-SA6-SB-3.5-4.5	SL-228-SA6-SS-0.0-0.5	SL-228-SA6-SB-4.0-5.0	SL-229-SA6-SS-0.0-0.5	SL-229-SA6-SB-2.0-3.0	SL-230-SA6-SS-0.0-0.5	SL-230-SA6-SB-4.0-5.0
Sample Date		08/17/2011	08/17/2011	10/04/2011	08/17/2011	07/21/2011	08/18/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011
Sample Type		N	N	N	N	N	N	N	N	N	N
SDG		DX129	DX129	DX146	DX129	DX117	DX128	DX147	DX147	DX147	DX147
Start Depth		2.5	3	3	3.5	0	4	0	2	0	4
End Depth		3.5	4	4	4.5	0.5	5	0.5	3	0.5	5
Chemical Name	Unit										
2,3,7,8-TCDD	ng/kg	1.00 U	1.05 UJ FD	1.09 U	0.170 J Z	0.611 J Z	1.04 U B	1.05 U B	0.224 J Z	0.0733 J Z	1.04 U
1,2,3,7,8,9-HxCDD	ng/kg	5.00 U B	5.26 UJ B, FD	0.0467 J Z	0.233 J Z	10.2	5.22 U B	2.84 J Z	3.92 J Z	1.51 J Z	0.226 J Z
OCDD	ng/kg	2.16 J Z	10.5 U B	6.16 J Z	12.2	5810 J *#	33.6	1440	2770	486	97.4
1,2,3,4,6,7,8-HpCDD	ng/kg	5.00 U B	5.26 UJ B, FD	5.43 U B	5.18 U B	600	4.52 J Z	142	232	55.3	11.5
OCDF	ng/kg	0.367 J Z	0.133 J Z	10.9 U B	0.539 J Z	355	1.63 J Z	73.5	86.6	24.2	7.59 J Z
1,2,3,4,7,8-HxCDD	ng/kg	5.00 U	5.26 UJ FD	5.43 U	0.165 J Z	7.93	5.22 U	1.87 J Z	2.52 J Z	0.816 J Z	0.206 J Z
1,2,3,7,8-PeCDD	ng/kg	5.00 U B	5.26 UJ FD	5.43 U B	5.18 U B	2.23 J FD, Z	5.22 U	2.23 J Z	1.03 J Z	0.427 J Z	5.18 U B
2,3,7,8-TCDF	ng/kg	1.00 U	1.05 UJ FD	1.09 U	1.04 U	1.98	1.04 U	1.05 U B	0.319 J Z	0.939 J Z	0.0620 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.00 U	5.26 U	5.43 U	0.0948 J Z	10.7	0.0790 J Z	2.79 J Z	3.51 J Z	1.20 J Z	5.18 U B
2,3,4,7,8-PeCDF	ng/kg	5.00 U B	5.26 UJ B, FD	5.43 U B	0.314 J Z	2.47 J Z	5.22 U B	0.555 J Z	0.834 J Z	1.35 J Z	5.18 U B
1,2,3,7,8-PeCDF	ng/kg	5.00 U	5.26 UJ B, FD	5.43 U	0.344 J Z	5.43	5.22 U	0.255 J Z	0.714 J Z	1.45 J Z	5.18 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.00 U	5.26 UJ FD	5.43 U B	5.18 U B	3.35 J Z	0.0305 J Z	1.06 J Z	1.38 J Z	1.07 J Z	5.18 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.00 U	5.26 UJ FD	0.0694 J Z	5.18 U B	23.8	0.197 J Z	6.26	7.80	2.49 J Z	0.544 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.00 U	5.26 UJ FD	5.43 U B	0.128 J Z	5.61	5.22 U B	1.79 J Z	2.20 J Z	1.09 J Z	5.18 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.00 U B	5.26 UJ B, FD	5.43 U B	5.18 U B	115	0.587 J Z	29.0	33.6	10.9	3.22 J Z
1,2,3,4,7,8-HxCDF	ng/kg	5.00 U B	5.26 UJ FD	5.43 U B	5.18 U B	4.43 J Z	0.0684 J Z	1.32 J Z	1.65 J Z	1.95 J Z	5.18 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.00 U B	5.26 UJ FD	5.43 U	0.225 J Z	0.898 J Z	5.22 U B	0.254 J Z	0.432 J Z	0.316 J Z	0.0487 J Z
Aroclor 1260	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	8.7 UJ FD	1.8 U	3.9	5.0	20	1.6 J Z
Aroclor 1254	ug/kg	1.0 J Z	0.40 J FD, Z	1.9 U	1.8 U	34 J FD	1.8 U	3.8	4.7	38	3.3
Aroclor 1268	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	8.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Aroclor 1221	ug/kg	2.7 U	2.9 U	1.9 U	2.8 U	8.7 U	3.5 U	1.8 U	1.8 U	1.8 U	1.8 U
Aroclor 5460	ug/kg	3.4 U	3.6 U	3.6 U	3.5 U	22 J FD	3.6 U	4.6	6.0	27	1.8 J Z
Aroclor 1232	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	8.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Aroclor 5442	ug/kg	3.4 U	3.6 U	3.6 U	3.5 U	17 U	3.6 U	3.5 U	3.4 U	3.5 U	3.4 U
Aroclor 1248	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	8.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Aroclor 1016	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	8.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Aroclor 1262	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	8.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Aroclor 1242	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	8.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Aroclor 5432	ug/kg	3.4 U	3.6 U	3.6 U	3.5 U	17 U	3.6 U	3.5 U	3.4 U	3.5 U	3.4 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-232-SA6-SS-0.0-0.5	SL-232-SA6-SB-2.5-3.5	SL-233-SA6-SS-0.0-0.5	SL-234-SA6-SS-0.0-0.5	SL-235-SA6-SS-0.0-0.5	SL-235-SA6-SB-4.0-5.0	SL-236-SA6-SS-0.0-0.5	SL-237-SA6-SS-0.0-0.5	SL-238-SA6-SS-0.0-0.5	SL-240-SA6-SS-0.0-0.5
Sample Date		10/06/2011	10/06/2011	07/22/2011	10/06/2011	07/25/2011	09/12/2011	07/25/2011	07/21/2011	07/22/2011	07/21/2011
Sample Type		N	N	N	N	N	N	N	N	N	N
SDG		DX147	DX147	DX117	DX147	DX119	DX133	DX119	DX117	DX117	DX117
Start Depth		0	2.5	0	0	0	4	0	0	0	0
End Depth		0.5	3.5	0.5	0.5	0.5	5	0.5	0.5	0.5	0.5
Chemical Name	Unit										
2,3,7,8-TCDD	ng/kg	1.12 U	1.07 U	0.179 J Z	1.10 U	0.506 U	1.08 U	0.503 U	1.20	0.0344 J Z	0.0510 J Z
1,2,3,7,8,9-HxCDD	ng/kg	0.291 J Z	5.37 U B	2.06 J Z	0.588 J Z	2.53 U B	5.41 U B	2.52 U B	17.4	0.526 J Z	0.676 J Z
OCDD	ng/kg	39.6	10.7 U B	1410	130	40.0 U B	10.8 U B	52.6	10300 J *#	139	181
1,2,3,4,6,7,8-HpCDD	ng/kg	4.46 J Z	5.37 U B	133	12.9	3.33 U B	5.41 U B	4.45 U B	935	14.2	17.2
OCDF	ng/kg	3.55 J Z	10.7 U B	88.9	12.3	2.00 J Z	10.8 U B	2.76 J Z	457	5.97 J Z	8.95 J Z
1,2,3,4,7,8-HxCDD	ng/kg	5.61 U B	5.37 U B	1.29 J Z	0.200 J Z	2.53 U B	5.41 U	2.52 U B	10.8	4.91 U B	5.01 U B
1,2,3,7,8-PeCDD	ng/kg	5.61 U B	5.37 U	3.29 J Z	5.51 U B	2.53 U B	5.41 U	2.52 U B	13.6	4.91 U B	0.254 J Z
2,3,7,8-TCDF	ng/kg	0.0661 J Z	0.0684 J Z	0.358 J Z	0.294 J Z	0.0827 J Z	1.08 U	0.0949 J Z	2.09	0.259 J Z	0.316 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.61 U B	5.37 U B	3.18 J Z	5.51 U B	2.53 U B	5.41 U	2.52 U B	18.2	0.280 J Z	0.259 J Z
2,3,4,7,8-PeCDF	ng/kg	5.61 U B	5.37 U B	0.625 J Z	0.783 J Z	2.53 U B	5.41 U B	2.52 U B	3.57 J Z	0.394 J Z	0.561 J Z
1,2,3,7,8-PeCDF	ng/kg	5.61 U B	5.37 U B	2.11 J Z	0.546 J Z	2.53 U B	5.41 U	2.52 U B	16.3	0.426 J Z	0.757 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.61 U B	5.37 U B	1.27 J Z	5.51 U B	2.53 U B	5.41 U	2.52 U B	7.05	0.200 J Z	0.288 J Z
1,2,3,6,7,8-HxCDD	ng/kg	0.289 J Z	5.37 U B	4.85 J Z	0.648 J Z	2.53 U B	0.0840 J Z	2.52 U B	43.4	0.637 J Z	0.798 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.61 U B	5.37 U B	1.79 J Z	0.551 J Z	2.53 U B	5.41 U	2.52 U B	11.4	0.312 J Z	0.363 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.61 U B	5.37 U B	30.9	3.56 J Z	0.712 J Z	5.41 U B	0.970 J Z	181	2.62 J Z	3.23 J Z
1,2,3,4,7,8-HxCDF	ng/kg	5.61 U B	5.37 U B	1.46 J Z	5.51 U B	2.53 U B	0.0793 J Z	2.52 U B	8.10	0.473 J Z	0.519 J Z
1,2,3,7,8,9-HxCDF	ng/kg	0.0996 J Z	0.0889 J Z	0.294 J Z	0.183 J Z	2.53 U B	0.0804 J Z	2.52 U B	1.59 J Z	0.244 J Z	0.206 J Z
Aroclor 1260	ug/kg	1.9 U	1.8 U	7.0	2.1	0.82 J Z	1.9 U	0.83 J Z	8.6 U	1.2 J Z	1.7 U
Aroclor 1254	ug/kg	1.9 U	1.8 U	1.7 U	0.93 J Z	1.7 U	1.9 U	1.7 U	36	1.7 U	2.9
Aroclor 1268	ug/kg	1.9 U	1.8 U	1.7 U	1.9 U	1.7 U	1.9 U	1.7 U	8.6 U	1.7 U	1.7 U
Aroclor 1221	ug/kg	1.9 U	1.8 U	1.7 U	1.9 U	1.7 U	1.9 U	1.7 U	8.6 U	1.7 U	1.7 U
Aroclor 5460	ug/kg	3.7 U	3.5 U	12	5.1	2.3 J Z	3.6 U	1.9 J Z	14 J Z	2.7 J Z	5.4
Aroclor 1232	ug/kg	1.9 U	1.8 U	1.7 U	1.9 U	1.7 U	1.9 U	1.7 U	8.6 U	1.7 U	1.7 U
Aroclor 5442	ug/kg	3.7 U	3.5 U	3.3 U	3.7 U	3.3 U	3.6 U	3.3 U	17 U	3.3 U	3.3 U
Aroclor 1248	ug/kg	1.9 U	1.8 U	1.7 U	1.9 U	1.7 U	1.9 U	1.7 U	8.6 U	1.7 U	1.7 U
Aroclor 1016	ug/kg	1.9 U	1.8 U	1.7 U	1.9 U	1.7 U	1.9 U	1.7 U	8.6 U	1.7 U	1.7 U
Aroclor 1262	ug/kg	1.9 U	1.8 U	1.7 U	1.9 U	1.7 U	1.9 U	1.7 U	8.6 U	1.7 U	1.7 U
Aroclor 1242	ug/kg	1.9 U	1.8 U	1.7 U	1.9 U	1.7 U	1.9 U	1.7 U	8.6 U	1.7 U	1.7 U
Aroclor 5432	ug/kg	3.7 U	3.5 U	3.3 U	3.7 U	3.3 U	3.6 U	3.3 U	17 U	3.3 U	3.3 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-241-SA6-SS-0.0-0.5	SL-241-SA6-SB-4.0-5.0	SL-241-SA6-SB-9.0-10.0	SL-242-SA6-SS-0.0-0.5	SL-242-SA6-SB-4.0-5.0	SL-242-SA6-SB-9.0-10.0	SL-243-SA6-SS-0.0-0.5	SL-244-SA6-SS-0.0-0.5	SL-245-SA6-SS-0.0-0.5
Sample Date		07/22/2011	08/22/2011	08/22/2011	07/22/2011	08/22/2011	08/22/2011	07/22/2011	07/22/2011	07/25/2011
Sample Type		N	N	N	N	N	N	N	N	N
SDG		DX117	DX129	DX129	DX117	DX129	DX129	DX117	DX117	DX119
Start Depth		0	4	9	0	4	9	0	0	0
End Depth		0.5	5	10	0.5	5	10	0.5	0.5	0.5
Chemical Name	Unit									
2,3,7,8-TCDD	ng/kg	0.0427 J Z	1.04 U	1.07 U	0.0508 J Z	1.06 U	0.0834 J Z	0.0775 J Z	0.0998 J Z	0.498 U B
1,2,3,7,8,9-HxCDD	ng/kg	1.13 J Z	5.21 U B	5.37 U B	1.50 J Z	0.218 J Z	5.25 U B	3.24 J Z	1.62 J Z	2.49 U B
OCDD	ng/kg	628	10.4 U B	10.7 U B	528	2.25 J Z	10.5 U B	797	898	23.3 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	40.0	5.21 U B	5.37 U B	53.6	5.29 U B	5.25 U B	76.0	66.4	3.4 U B
OCDF	ng/kg	26.2	0.107 J Z	0.147 J Z	31.0	0.100 J Z	0.166 J Z	30.7	38.8	2.63 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.638 J Z	5.21 U	5.37 U	0.664 J Z	5.29 U	0.0342 J Z	1.41 J Z	0.772 J Z	2.49 U B
1,2,3,7,8-PeCDD	ng/kg	0.277 J Z	5.21 U	5.37 U	0.356 J Z	5.29 U	5.25 U B	1.02 J Z	0.538 J Z	2.49 U B
2,3,7,8-TCDF	ng/kg	0.987 U B	1.04 U	1.07 U	0.228 J Z	1.06 U	0.0563 J Z	0.282 J Z	0.486 J Z	0.151 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	0.739 J Z	0.0399 J Z	0.0313 J Z	1.04 J Z	0.0427 J Z	0.0507 J Z	1.03 J Z	1.21 J Z	2.49 U B
2,3,4,7,8-PeCDF	ng/kg	0.277 J Z	5.21 U B	5.37 U B	0.364 J Z	5.29 U B	5.25 U B	0.755 J Z	1.53 J Z	2.49 U B
1,2,3,7,8-PeCDF	ng/kg	0.182 J Z	5.21 U B	5.37 U	0.353 J Z	5.29 U B	0.195 J Z	0.541 J Z	0.905 J Z	0.308 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.514 J Z	5.21 U B	5.37 U	0.710 J Z	5.29 U B	5.25 U B	0.823 J Z	0.817 J Z	0.162 J Z
1,2,3,6,7,8-HxCDD	ng/kg	1.33 J Z	5.21 U B	5.37 U	1.62 J Z	5.29 U B	5.25 U B	3.55 J Z	2.42 J Z	2.49 U B
2,3,4,6,7,8-HxCDF	ng/kg	0.611 J Z	5.21 U B	5.37 U B	0.809 J Z	5.29 U B	5.25 U B	1.01 J Z	1.07 J Z	0.166 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	11.7	5.21 U B	5.37 U B	17.0	5.29 U B	5.25 U B	10.9	15.1	1.44 J Z
1,2,3,4,7,8-HxCDF	ng/kg	0.566 J Z	5.21 U B	5.37 U B	0.863 J Z	5.29 U B	5.25 U B	1.09 J Z	2.21 J Z	2.49 U B
1,2,3,7,8,9-HxCDF	ng/kg	0.203 J Z	5.21 U B	5.37 U	0.355 J Z	0.216 J Z	5.25 U B	0.431 J Z	0.510 J Z	2.49 U B
Aroclor 1260	ug/kg	1.7 U	1.8 U	1.9 U	0.77 J Z	1.8 U	1.8 U	1.5 J Z	4.5	1.7 U
Aroclor 1254	ug/kg	0.74 J Z	1.8 U	1.9 U	3.1	1.8 U	1.8 U	2.4	6.2	5.9
Aroclor 1268	ug/kg	1.7 U	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U	1.7 U
Aroclor 1221	ug/kg	1.7 U	3.5 U	3.6 U	1.7 U	3.4 U	3.4 U	1.7 U	1.7 U	1.7 U
Aroclor 5460	ug/kg	3.3 U	3.6 U	3.7 U	3.5	3.5 U	3.5 U	4.3	14	3.3 U
Aroclor 1232	ug/kg	1.7 U	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U	1.7 U
Aroclor 5442	ug/kg	3.3 U	3.6 U	3.7 U	3.3 U	3.5 U	3.5 U	3.3 U	3.3 U	3.3 U
Aroclor 1248	ug/kg	1.7 U	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U	1.7 U
Aroclor 1016	ug/kg	1.7 U	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U	1.7 U
Aroclor 1262	ug/kg	1.7 U	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U	1.7 U
Aroclor 1242	ug/kg	1.7 U	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U	1.7 U
Aroclor 5432	ug/kg	3.3 U	3.6 U	3.7 U	3.3 U	3.5 U	3.5 U	3.3 U	3.3 U	3.3 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-246-SA6-SB-4.0-5.0	SL-247-SA6-SB-4.0-5.0	SL-249-SA6-SB-4.0-5.0	SL-250-SA6-SB-3.0-4.0	SL-252-SA6-SB-4.0-5.0	SL-253-SA6-SS-0.0-0.5	SL-253-SA6-SB-4.0-5.0	SL-254-SA6-SS-0.0-0.5	SL-254-SA6-SB-2.5-3.5	SL-255-SA6-SS-0.0-0.5
Sample Date		08/25/2011	08/25/2011	08/29/2011	08/26/2011	08/26/2011	07/25/2011	08/29/2011	07/25/2011	10/06/2011	07/25/2011
Sample Type		N	N	N	N	N	N	N	N	N	N
SDG		DX130	DX130	DX131	DX130	DX130	DX119	DX131	DX119	DX147	DX119
Start Depth		4	4	4	3	4	0	4	0	2.5	0
End Depth		5	5	5	4	5	0.5	5	0.5	3.5	0.5
Chemical Name	Unit										
2,3,7,8-TCDD	ng/kg	0.0612 J Z	1.06 U	0.0253 J Z	0.119 J Z	0.727 J FD, Z	1.01 U B	1.03 U	0.984 U B	1.02 U	1.01 U B
1,2,3,7,8,9-HxCDD	ng/kg	2.24 J Z	5.32 U B	0.379 J Z	1.71 J Z	20.6 J FD	5.03 U B	1.01 J Z	0.655 J Z	5.09 U B	5.03 U B
OCDD	ng/kg	2030	10.6 U B	232	814	26000 J FD	33.9 U B	85.7	63.0	20.5	34.6 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	137	5.32 U B	17.2	83.8	2210 J FD	5.84 U B	24.8	8.16	2.33 J Z	5.03 U B
OCDF	ng/kg	46.3	10.6 U B	8.95 J Z	47.5	452 J FD, Q	3.99 J Z	8.13 J Z	5.97 J Z	10.2 U B	3.12 J Z
1,2,3,4,7,8-HxCDD	ng/kg	1.37 J Z	5.32 U	0.283 J Z	0.876 J Z	7.11 J FD	5.03 U B	0.221 J Z	4.92 U B	5.09 U B	5.03 U B
1,2,3,7,8-PeCDD	ng/kg	0.499 J Z	5.32 U	0.117 J Z	0.557 J Z	3.95 J FD, Z	0.267 J Z	0.0981 J Z	4.92 U B	5.09 U B	5.03 U B
2,3,7,8-TCDF	ng/kg	0.349 J Z	1.06 U	0.0506 J Z	1.02 U	8.25 J FD	0.200 J Z	0.414 J Z	0.376 J Z	0.372 J Z	0.100 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	1.26 J Z	5.32 U B	0.446 J Z	1.60 J Z	19.2	5.03 U B	0.451 J Z	4.92 U B	5.09 U B	5.03 U B
2,3,4,7,8-PeCDF	ng/kg	0.386 J Z	5.32 U B	5.23 U B	1.83 J Z	5.56 J FD	0.322 J Z	0.452 J Z	0.503 J Z	0.472 J Z	5.03 U B
1,2,3,7,8-PeCDF	ng/kg	6.09	5.32 U B	0.286 J Z	7.58	23.9	0.371 J Z	0.446 J Z	0.786 J Z	0.242 J Z	0.464 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.638 J Z	5.32 U B	0.328 J Z	1.22 J Z	14.1	0.252 J Z	0.514 J Z	0.336 J Z	5.09 U B	5.03 U B
1,2,3,6,7,8-HxCDD	ng/kg	4.07 J Z	5.32 U B	0.610 J Z	3.28 J Z	56.2 J FD	0.587 J Z	2.92 J Z	0.819 J Z	0.247 J Z	5.03 U B
2,3,4,6,7,8-HxCDF	ng/kg	0.903 J Z	5.32 U B	5.23 U B	1.13 J Z	16.7	0.285 J Z	0.562 J Z	0.244 J Z	5.09 U B	5.03 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	17.4	5.32 U B	4.82 J Z	21.0	214 J FD, Q	2.40 J Z	8.59	3.10 J Z	5.09 U B	1.25 J Z
1,2,3,4,7,8-HxCDF	ng/kg	0.853 J Z	5.32 U B	0.559 J Z	1.50 J Z	17.0 J FD	0.293 J Z	0.772 J Z	0.296 J Z	5.09 U B	0.222 J Z
1,2,3,7,8,9-HxCDF	ng/kg	0.452 J Z	5.32 U B	0.298 J Z	0.373 J Z	5.26 UJ FD	5.03 U B	0.239 J Z	4.92 U B	0.0849 J Z	5.03 U B
Aroclor 1260	ug/kg	3.3	1.8 U	3.2	44	1500 J FD	1.7 U	5.4	1.7 U	1.1 J Z	1.7 U
Aroclor 1254	ug/kg	6.5	0.63 J Z	1.8 U	200	1100 J FD	14	7.0	3.4	1.9	3.1
Aroclor 1268	ug/kg	1.9 U	1.8 U	1.8 U	44 U	180 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U
Aroclor 1221	ug/kg	1.9 U	1.8 U	1.8 U	44 U	180 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U
Aroclor 5460	ug/kg	3.7 U	3.6 U	3.5 U	86 U	1300 J FD	3.3 U	13	3.3 U	3.4 U	3.3 U
Aroclor 1232	ug/kg	1.9 U	1.8 U	1.8 U	44 U	180 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U
Aroclor 5442	ug/kg	3.7 U	3.6 U	3.5 U	86 U	350 U	3.3 U	3.4 U	3.3 U	3.4 U	3.3 U
Aroclor 1248	ug/kg	1.9 U	1.8 U	1.8 U	260	180 U	1.7 U	2.1	1.7 U	1.8 U	1.7 U
Aroclor 1016	ug/kg	1.9 U	1.8 U	1.8 U	44 U	180 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U
Aroclor 1262	ug/kg	1.9 U	1.8 U	1.8 U	44 U	180 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U
Aroclor 1242	ug/kg	1.9 U	1.8 U	1.8 U	44 U	180 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U
Aroclor 5432	ug/kg	3.7 U	3.6 U	3.5 U	86 U	350 U	3.3 U	3.4 U	3.3 U	3.4 U	3.3 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-255-SA6-SB-2.0-3.0	SL-256-SA6-SS-0.0-0.5	SL-256-SA6-SB-2.5-3.5	SL-257-SA6-SB-1.5-2.5	SL-258-SA6-SB-0.0-0.83	SL-261-SA6-SB-1.5-2.5	SL-261-SA6-SB-9.0-10.0	SL-262-SA6-SB-4.0-5.0	SL-263-SA6-SB-4.0-5.0
Sample Date		08/29/2011	07/25/2011	08/26/2011	08/25/2011	09/01/2011	09/06/2011	09/06/2011	09/01/2011	09/06/2011
Sample Type		N	N	N	N	N	N	N	N	N
SDG		DX131	DX119	DX130	DX130	DX132	DX132	DX132	DX132	DX132
Start Depth		2	0	2.5	1.5	0	1.5	9	4	4
End Depth		3	0.5	3.5	2.5	0.8	2.5	10	5	5
Chemical Name	Unit									
2,3,7,8-TCDD	ng/kg	0.0228 J Z	0.969 U	0.0159 J Z	1.03 U	0.0449 J Z	0.108 J Z	0.102 J Z	1.09 U	0.0590 J Z
1,2,3,7,8,9-HxCDD	ng/kg	5.37 U B	4.85 U B	0.422 J Z	0.885 J Z	1.30 J Z	0.539 J Z	0.102 J Z	5.44 UJ B, FD	5.44 U B
OCDD	ng/kg	10.7 U B	90.2	39.8	518	571	59.6	11.0 U B	2.08 J FD, Z	10.9 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.37 U B	7.56	3.70 J Z	43.5	61.5	6.31	5.48 U B	5.44 U B	5.44 U B
OCDF	ng/kg	10.7 U B	3.81 J Z	1.95 J Z	13.9	31.8	3.73 J Z	11.0 U B	10.9 UJ B, FD	10.9 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.37 U	4.85 U B	5.31 U B	0.525 J Z	0.901 J Z	0.197 J Z	0.131 J Z	5.44 U	0.0536 J Z
1,2,3,7,8-PeCDD	ng/kg	0.0294 J Z	4.85 U B	5.31 U B	0.236 J Z	0.317 J Z	0.408 J Z	0.284 J Z	5.44 U	0.132 J Z
2,3,7,8-TCDF	ng/kg	0.0174 J Z	0.162 J Z	0.0601 J Z	0.512 J Z	0.296 J Z	0.479 J Z	0.118 J Z	1.09 UJ FD	0.0577 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.37 U B	4.85 U B	5.31 U B	0.465 J Z	1.12 J Z	0.184 J Z	5.48 U B	5.44 U B	5.44 U B
2,3,4,7,8-PeCDF	ng/kg	5.37 U B	4.85 U B	5.31 U B	0.366 J Z	0.611 J Z	0.540 J Z	0.347 J Z	5.44 U B	5.44 U B
1,2,3,7,8-PeCDF	ng/kg	5.37 U B	0.749 J Z	0.146 J Z	8.46	0.300 J Z	0.604 J Z	0.345 J Z	5.44 UJ B, FD	0.178 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.37 U B	0.208 J Z	0.155 J Z	0.314 J Z	0.755 J Z	0.313 J Z	5.48 U B	5.44 U B	5.44 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.0789 J Z	4.85 U B	0.439 J Z	1.47 J Z	1.75 J Z	0.587 J Z	0.124 J Z	5.44 U B	5.44 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.37 U B	0.183 J Z	5.31 U B	0.367 J Z	0.831 J Z	5.51 U B	5.48 U B	5.44 U B	5.44 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.37 U B	1.90 J Z	1.01 J Z	5.72	10.8	1.63 J Z	5.48 U B	5.44 U B	5.44 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.37 U B	0.212 J Z	5.31 U B	0.635 J Z	1.87 J Z	0.382 J Z	0.257 J Z	5.44 U B	5.44 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.37 U B	4.85 U B	0.158 J Z	0.125 J Z	5.07 U	0.406 J Z	0.183 J Z	5.44 UJ FD	5.44 U B
Aroclor 1260	ug/kg	1.8 U	1.7 U	1.8 U	890 U	7.8	0.67 J Z	1.9 U	1.9 U	1.9 U
Aroclor 1254	ug/kg	0.54 J Z	8.7	6.4	890 U	8.1	0.83 J Z	1.9 U	1.9 U	1.9 U
Aroclor 1268	ug/kg	1.8 U	1.7 U	1.8 U	890 U	1.7 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.8 U	1.7 U	1.8 U	890 U	1.7 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.6 U	3.4	3.5 U	1700 U	3.4 UJ E	2.0 J E, Z	3.7 UJ E	3.6 UJ E	3.6 UJ E
Aroclor 1232	ug/kg	1.8 U	1.7 U	1.8 U	890 U	1.7 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.6 U	3.3 U	3.5 U	1700 U	3.4 UJ E	3.7 UJ E	3.7 UJ E	3.6 UJ E	3.6 UJ E
Aroclor 1248	ug/kg	1.8 U	1.7 U	5.6	1800	1.7 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	1.8 U	1.7 U	1.8 U	890 U	1.7 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	1.8 U	1.7 U	1.8 U	890 U	1.7 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.8 U	1.7 U	1.8 U	890 U	1.7 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.6 U	3.3 U	3.5 U	1700 U	3.4 UJ E	3.7 UJ E	3.7 UJ E	3.6 UJ E	3.6 UJ E

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J - Result is an estimated value
R - Result is rejected

Sample Name		SL-263-SA6-SB-9.0-10.0	SL-264-SA6-SB-0.4-1.4	SL-265-SA6-SB-4.0-5.0	SL-266-SA6-SB-4.0-5.0	SL-267-SA6-SB-4.0-5.0	SL-267-SA6-SB-9.0-10.0	SL-268-SA6-SS-0.0-0.5	SL-268-SA6-SB-4.0-5.0	SL-269-SA6-SB-1.5-2.5
Sample Date		09/06/2011	09/01/2011	10/11/2011	09/01/2011	08/30/2011	08/30/2011	07/25/2011	10/06/2011	09/12/2011
Sample Type		N	N	N	N	N	N	N	N	N
SDG		DX132	DX132	DX148	DX132	DX131	DX131	DX119	DX148	DX133
Start Depth		9	0.4	4	4	4	9	0	4	1.5
End Depth		10	1.4	5	5	5	10	0.5	5	2.5
Chemical Name	Unit									
2,3,7,8-TCDD	ng/kg	0.0205 J Z	1.02 U	1.04 U	0.0213 J Z	0.125 J Z	0.0380 J Z	0.999 U B	1.00 U	0.0792 J Z
1,2,3,7,8,9-HxCDD	ng/kg	5.57 U B	0.165 J Z	5.22 U B	0.102 J Z	4.92 U B	5.11 U B	2.24 J Z	5.02 U B	5.09 U B
OCDD	ng/kg	11.1 U B	19.1	6.83 J Z	10.4 J Z	3.06 J Z	2.19 J Z	313	16.9	10.2 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.57 U B	2.09 J Z	5.22 U B	5.38 U B	4.92 U B	5.11 U B	45.7	1.93 J Z	5.09 U B
OCDF	ng/kg	11.1 U B	1.42 J Z	10.4 U B	10.8 U B	9.84 U B	10.2 U B	15.0	0.703 J Z	10.2 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.57 U	0.0819 J Z	0.0246 J Z	5.38 U	4.92 U	5.11 U B	0.912 J Z	0.0497 J Z	5.09 U
1,2,3,7,8-PeCDD	ng/kg	5.57 U	5.09 U B	5.22 U	5.38 U B	0.0446 J Z	0.0247 J Z	0.692 J Z	0.0873 J Z	5.09 U
2,3,7,8-TCDF	ng/kg	1.11 U	0.0193 J Z	0.0481 J Z	1.08 U	0.0222 J Z	0.0180 J Z	1.19	0.0933 J Z	1.02 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.57 U B	5.09 U B	5.22 U B	5.38 U B	4.92 U B	5.11 U B	0.924 J Z	5.02 U B	5.09 U
2,3,4,7,8-PeCDF	ng/kg	5.57 U B	5.09 U B	5.22 U	5.38 U B	4.92 U B	5.11 U B	1.89 J Z	5.02 U B	5.09 U B
1,2,3,7,8-PeCDF	ng/kg	5.57 U B	5.09 U B	5.22 U B	5.38 U B	0.215 J Z	5.11 U B	1.73 J Z	0.222 J Z	5.09 U
1,2,3,6,7,8-HxCDF	ng/kg	5.57 U B	5.09 U B	5.22 U B	5.38 U B	4.92 U B	5.11 U B	1.51 J Z	5.02 U B	5.09 U
1,2,3,6,7,8-HxCDD	ng/kg	5.57 U B	0.134 J Z	5.22 U B	5.38 U B	0.0364 J Z	0.0255 J Z	3.61 J Z	5.02 U B	0.0463 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.57 U B	5.09 U B	5.22 U B	5.38 U B	4.92 U B	5.11 U B	1.74 J Z	5.02 U B	5.09 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.57 U B	5.09 U B	5.22 U B	5.38 U B	4.92 U B	5.11 U B	11.9	0.467 J Z	5.09 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.57 U B	5.09 U B	5.22 U B	5.38 U B	4.92 U B	5.11 U B	1.83 J Z	5.02 U B	5.09 U
1,2,3,7,8,9-HxCDF	ng/kg	5.57 U B	0.143 J Z	5.22 U	5.38 U B	4.92 U	5.11 U B	0.538 J Z	5.02 U B	0.0539 J Z
Aroclor 1260	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	0.72 J Z	1.7 U
Aroclor 1254	ug/kg	1.9 U	1.8 U	0.89 J Z	1.9 U	1.8 U	1.8 U	15	0.51 J Z	1.7 U
Aroclor 1268	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.7 U
Aroclor 1221	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.7 U
Aroclor 5460	ug/kg	3.7 UJ E	3.4 UJ E	3.6 U	3.6 UJ E	3.4 U	3.5 U	7.4	3.4 U	3.4 U
Aroclor 1232	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.7 U
Aroclor 5442	ug/kg	3.7 UJ E	3.4 UJ E	3.6 U	3.6 UJ E	3.4 U	3.5 U	3.3 U	3.4 U	3.4 U
Aroclor 1248	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.7 U
Aroclor 1016	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.7 U
Aroclor 1262	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.7 U
Aroclor 1242	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.7 U
Aroclor 5432	ug/kg	3.7 UJ E	3.4 UJ E	3.6 U	3.6 UJ E	3.4 U	3.5 U	3.3 U	3.4 U	3.4 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-270-SA6-SB-2.0-3.0	SL-273-SA6-SB-4.0-5.0	SL-273-SA6-SB-9.0-10.0	SL-275-SA6-SB-4.0-5.0	SL-275-SA6-SB-9.0-10.0	SL-276-SA6-SB-4.0-5.0	SL-276-SA6-SB-9.0-10.0	SL-278-SA6-SS-0.0-0.5	SL-279-SA6-SS-0.0-0.5
Sample Date		08/31/2011	08/08/2011	08/08/2011	07/12/2011	07/12/2011	07/12/2011	07/12/2011	07/13/2011	07/13/2011
Sample Type		N	N	N	N	N	N	N	N	N
SDG		DX131	DX126	DX126	DX110	DX110	DX110	DX110	DX111	DX111
Start Depth		2	4	9	4	9	4	9	0	0
End Depth		3	5	10	5	10	5	10	0.5	0.5
Chemical Name	Unit									
2,3,7,8-TCDD	ng/kg	0.0373 J Z	1.05 U	1.13 U	1.03 U	1.09 U	0.0400 J Z	1.08 U	0.616 J Z	1.01 U B
1,2,3,7,8,9-HxCDD	ng/kg	0.130 J Z	5.25 U	5.65 U B	5.15 U B	5.45 U B	1.17 J Z	5.41 U	53.8	0.920 J Z
OCDD	ng/kg	84.6	10.5 U B	11.3 U B	10.3 U B	10.9 U B	1010	10.8 U B	135000 J *#	824
1,2,3,4,6,7,8-HpCDD	ng/kg	1.30 J Z	5.25 U B	5.65 U B	5.15 U B	5.45 U B	93.5	5.41 U B	10900 J *#	69.5
OCDF	ng/kg	10.1 U B	0.183 J Z	0.228 J Z	10.3 U B	10.9 U B	47.2	10.8 U B	1470	20.8
1,2,3,4,7,8-HxCDD	ng/kg	5.07 U B	5.25 U	5.65 U	5.15 U	5.45 U	0.529 J Z	5.41 U	13.5	0.642 J Z
1,2,3,7,8-PeCDD	ng/kg	0.0673 J Z	5.25 U	5.65 U	5.15 U	5.45 U	0.230 J Z	5.41 U	4.59 J Z	0.305 J Z
2,3,7,8-TCDF	ng/kg	0.0245 J Z	1.05 U	1.13 U	1.03 U	1.09 U	0.965 J Z	1.08 U	1.59	0.582 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.07 U B	5.25 U	5.65 U B	5.15 U B	5.45 U	1.21 J Z	5.41 U	106	1.01 J Z
2,3,4,7,8-PeCDF	ng/kg	5.07 U B	0.0845 J Z	0.0772 J Z	5.15 U B	5.45 U B	2.81 J Z	5.41 U B	4.94 J Z	0.561 J Z
1,2,3,7,8-PeCDF	ng/kg	5.07 U B	5.25 U	0.0992 J Z	0.0324 J Z	5.45 U	6.28	5.41 U	8.63	2.88 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.07 U B	5.25 U B	5.65 U B	5.15 U B	5.45 U	1.05 J Z	5.41 U B	17.4	0.520 J Z
1,2,3,6,7,8-HxCDD	ng/kg	0.109 J Z	5.25 U B	5.65 U B	5.15 U B	5.45 U B	2.90 J Z	5.41 U	206	2.05 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.07 U B	5.25 U	5.65 U B	5.15 U B	5.45 U B	0.756 J Z	5.41 U B	39.2	0.569 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.07 U B	5.25 U B	5.65 U B	5.15 U B	5.45 U B	14.1	5.41 U B	661	7.92
1,2,3,4,7,8-HxCDF	ng/kg	5.07 U B	5.25 U B	5.65 U	5.15 U B	5.45 U B	2.46 J Z	5.41 U B	28.9	1.02 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.07 U B	0.0550 J Z	0.129 J Z	5.15 U B	5.45 U B	5.42 U B	5.41 U	5.63	5.03 U B
Aroclor 1260	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 R S	8.8 UJ C
Aroclor 1254	ug/kg	1.8 U	1.8 U	1.9 U	0.59 J Z	1.9 U	12	1.8 U	7.3 J S	23 J C
Aroclor 1268	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 R S	8.8 U
Aroclor 1221	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 R S	8.8 U
Aroclor 5460	ug/kg	3.5 UJ E	3.5 U	3.7 U	3.5 U	3.6 U	22	3.6 U	5.1 J S	32 J C
Aroclor 1232	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 R S	8.8 U
Aroclor 5442	ug/kg	3.5 UJ E	3.5 U	3.7 U	3.5 U	3.6 U	3.6 U	3.6 U	3.4 R S	17 U
Aroclor 1248	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 R S	8.8 UJ C
Aroclor 1016	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 R S	8.8 U
Aroclor 1262	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 R S	8.8 U
Aroclor 1242	ug/kg	1.8 U	1.8 U	1.9 U	2.5	1.9 U	1.8 U	1.8 U	1.7 R S	8.8 UJ C
Aroclor 5432	ug/kg	3.5 UJ E	3.5 U	3.7 U	3.5 U	3.6 U	3.6 U	3.6 U	3.4 R S	17 U

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Sample Name		SL-279-SA6-SB-1.0-2.0	SL-279-SA6-SB-4.0-5.0	SL-279-SA6-SB-9.0-10.0	SL-280-SA6-SS-0.0-0.5	SL-280-SA6-SB-4.0-5.0	SL-281-SA6-SS-0.0-0.5	SL-282-SA6-SS-0.0-0.5	SL-282-SA6-SS-0.0-0.5S	SL-282-SA6-SB-2.5-3.5
Sample Date		08/22/2011	08/22/2011	08/22/2011	07/12/2011	08/12/2011	07/12/2011	11/30/2011	11/30/2011	11/30/2011
Sample Type		N	N	N	N	N	N	N	Split	N
SDG		DX129	DX129	DX129	DX111	DX128	DX111	DX156	11L003	DX156
Start Depth		1	4	9	0	4	0	0	0	2.5
End Depth		2	5	10	0.5	5	0.5	0.5	0.5	3.5
Chemical Name	Unit									
2,3,7,8-TCDD	ng/kg	0.0657 J Z	0.121 J Z	1.08 U	1.73	8.38	0.233 J Z	1.05 U B	--	1.08 U B
1,2,3,7,8,9-HxCDD	ng/kg	5.08 U B	5.13 U B	5.39 U B	6.30	8.75	2.28 J Z	0.594 J Z	--	5.42 U B
OCDD	ng/kg	9.19 J Z	10.3 U B	16.3	7290 J *#	25600	2510	671	--	3.43 J Z
1,2,3,4,6,7,8-HpCDD	ng/kg	5.08 U B	5.13 U B	1.57 J Z	474	1390	188	63.8	--	5.42 U B
OCDF	ng/kg	0.372 J Z	0.161 J Z	0.654 J Z	102	174	55.0	58.8	--	10.8 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.0900 J Z	0.138 J Z	0.116 J Z	761	3900	3.28 J Z	0.419 J Z	--	5.42 U B
1,2,3,7,8-PeCDD	ng/kg	5.08 U B	5.13 U B	5.39 U B	7.00	25.7	3.08 J Z	5.23 U B	--	5.42 U B
2,3,7,8-TCDF	ng/kg	0.0889 J Z	0.0977 J Z	1.08 U	0.674 J Z	0.205 J Z	4.01	0.173 J Z	--	1.08 U B
1,2,3,4,7,8,9-HpCDF	ng/kg	0.0667 J Z	0.0531 J Z	0.0889 J Z	3.58 J Z	7.23	2.40 J Z	1.01 J Z	--	5.42 U B
2,3,4,7,8-PeCDF	ng/kg	0.301 J Z	0.320 J Z	5.39 U B	1.45 J Z	1.02 J Z	3.33 J Z	5.23 U B	--	5.42 U B
1,2,3,7,8-PeCDF	ng/kg	0.324 J Z	0.334 J Z	0.230 J Z	8.88	0.466 J Z	7.73	0.579 J Z	--	5.42 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.08 U B	5.13 U B	5.39 U B	1.33 J Z	1.77 J Z	1.35 J Z	5.23 U B	--	5.42 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.08 U B	5.13 U B	5.39 U B	14.4	70.8	5.38	1.45 J Z	--	5.42 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.08 U B	0.119 J Z	5.39 U B	1.81 J Z	3.61 J Z	1.61 J Z	0.425 J Z	--	5.42 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.08 U B	5.13 U B	0.271 J Z	34.8	55.5	21.0	11.9	--	5.42 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.08 U B	5.13 U B	5.39 U B	2.69 J Z	1.94 J Z	4.20 J Z	0.949 J Z	--	5.42 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.08 U B	5.13 U B	5.39 U B	0.422 J Z	5.13 U	0.487 J Z	5.23 U B	--	5.42 U B
Aroclor 1260	ug/kg	1.8 U	1.1 J Z	0.90 J Z	1.8 U	1.8 U	17 U	1.8 U	12	1.9 U
Aroclor 1254	ug/kg	1.8 U	1.5 J Z	0.82 J Z	7.8	0.36 J Z	350	1.8 U	1.8 U	1.9 U
Aroclor 1268	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	17 U	1.8 U	1.8 U	1.9 U
Aroclor 1221	ug/kg	3.3 U	3.4 U	3.5 U	1.8 U	1.8 U	17 U	1.8 U	1.8 U	1.9 U
Aroclor 5460	ug/kg	3.4 U	3.2 J Z	2.8 J Z	1.1 J Z	3.5 U	70	3.5 U	36	3.7 U
Aroclor 1232	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	17 U	1.8 U	1.8 U	1.9 U
Aroclor 5442	ug/kg	3.4 U	3.5 U	3.6 U	3.4 U	3.5 U	34 U	3.5 U	3.5 U	3.7 U
Aroclor 1248	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	17 U	1.8 U	1.8 U	1.9 U
Aroclor 1016	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	17 U	1.8 U	0.21 U B	1.9 U
Aroclor 1262	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	17 U	1.8 U	1.8 U	1.9 U
Aroclor 1242	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	17 U	1.8 U	1.8 U	1.9 U
Aroclor 5432	ug/kg	3.4 U	3.5 U	3.6 U	3.4 U	3.5 U	34 U	3.5 U	3.5 U	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-282-SA6-SB-2.5-3.5S	SL-283-SA6-SS-0.0-0.5	SL-283-SA6-SS-0.0-0.5S	SL-283-SA6-SB-4.0-5.0	SL-283-SA6-SB-4.0-5.0S	SL-283-SA6-SB-9.0-10.0	SL-283-SA6-SB-9.0-10.0S	SL-283-SA6-SB-14.0-15.0	SL-283-SA6-SB-14.0-15.0S
Sample Date		11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011
Sample Type		Split	N	Split	N	Split	N	Split	N	Split
SDG		11L003	DX156	11L003	DX156	11L003	DX156	11L003	DX156	11L003
Start Depth		2.5	0	0	4	4	9	9	14	14
End Depth		3.5	0.5	0.5	5	5	10	10	15	15
Chemical Name	Unit									
2,3,7,8-TCDD	ng/kg	--	1.02 U B	--	1.06 U B	--	1.08 U	--	1.08 U B	--
1,2,3,7,8,9-HxCDD	ng/kg	--	1.63 J Z	--	5.31 U B	--	5.42 U B	--	5.42 U B	--
OCDD	ng/kg	--	1460	--	10.6 U B	--	10.8 U B	--	10.8 U B	--
1,2,3,4,6,7,8-HpCDD	ng/kg	--	130	--	5.31 U B	--	5.42 U B	--	5.42 U B	--
OCDF	ng/kg	--	35.9	--	10.6 U B	--	10.8 U B	--	10.8 U B	--
1,2,3,4,7,8-HxCDD	ng/kg	--	0.899 J Z	--	5.31 U B	--	5.42 U B	--	5.42 U B	--
1,2,3,7,8-PeCDD	ng/kg	--	0.491 J Z	--	5.31 U B	--	5.42 U B	--	5.42 U B	--
2,3,7,8-TCDF	ng/kg	--	0.335 J Z	--	1.06 U B	--	1.08 U B	--	1.08 U B	--
1,2,3,4,7,8,9-HpCDF	ng/kg	--	1.22 J Z	--	5.31 U B	--	5.42 U B	--	5.42 U B	--
2,3,4,7,8-PeCDF	ng/kg	--	5.10 U B	--	5.31 U B	--	5.42 U B	--	5.42 U B	--
1,2,3,7,8-PeCDF	ng/kg	--	1.24 J Z	--	0.461 J Z	--	5.42 U B	--	5.42 U B	--
1,2,3,6,7,8-HxCDF	ng/kg	--	0.816 J Z	--	5.31 U B	--	5.42 U B	--	5.42 U B	--
1,2,3,6,7,8-HxCDD	ng/kg	--	3.33 J Z	--	5.31 U B	--	5.42 U B	--	5.42 U B	--
2,3,4,6,7,8-HxCDF	ng/kg	--	0.913 J Z	--	5.31 U B	--	5.42 U B	--	5.42 U B	--
1,2,3,4,6,7,8-HpCDF	ng/kg	--	12.3	--	5.31 U B	--	5.42 U B	--	5.42 U B	--
1,2,3,4,7,8-HxCDF	ng/kg	--	1.32 J Z	--	5.31 U B	--	5.42 U B	--	5.42 U B	--
1,2,3,7,8,9-HxCDF	ng/kg	--	5.10 U B	--	5.31 U B	--	5.42 U B	--	5.42 U B	--
Aroclor 1260	ug/kg	1.9 U	24	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1254	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1268	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.7 U	5.9	3.5 U	3.5 U	3.6 U	3.6 U	3.6 U	3.6 U	3.7 U
Aroclor 1232	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.7 U	3.5 U	3.5 U	3.5 U	3.6 U	3.6 U	3.6 U	3.6 U	3.7 U
Aroclor 1248	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	0.528 U B	1.8 U	0.388 U B	1.8 U	0.253 U B	1.9 U	0.255 U B	1.9 U	0.241 U B
Aroclor 1262	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.7 U	3.5 U	3.5 U	3.5 U	3.6 U	3.6 U	3.6 U	3.6 U	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-283-SA6-SB-18.0-19.0	SL-283-SA6-SB-18.0-19.0S	SL-284-SA6-SS-0.0-0.5	SL-284-SA6-SS-0.0-0.5S	SL-284-SA6-SB-4.0-5.0	SL-284-SA6-SB-4.0-5.0S	SL-284-SA6-SB-9.0-10.0	SL-284-SA6-SB-9.0-10.0S	SL-284-SA6-SB-14.0-15.0
Sample Date		11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011
Sample Type		N	Split	N	Split	N	Split	N	Split	N
SDG		DX156	11L003	DX156	11L003	DX156	11L003	DX156	11L003	DX156
Start Depth		18	18	0	0	4	4	9	9	14
End Depth		19	19	0.5	0.5	5	5	10	10	15
Chemical Name	Unit									
2,3,7,8-TCDD	ng/kg	1.10 U B	--	1.08 U B	--	1.07 U	--	1.06 U B	--	1.08 U B
1,2,3,7,8,9-HxCDD	ng/kg	5.51 U B	--	1.28 J Z	--	5.36 U B	--	5.29 U B	--	5.42 U B
OCDD	ng/kg	11.0 U B	--	1820	--	10.7 U B	--	10.6 U B	--	10.8 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.51 U B	--	145	--	5.36 U B	--	5.29 U B	--	5.42 U B
OCDF	ng/kg	11.0 U B	--	44.0	--	10.7 U B	--	10.6 U B	--	10.8 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.51 U B	--	0.930 J Z	--	5.36 U B	--	5.29 U B	--	5.42 U B
1,2,3,7,8-PeCDD	ng/kg	5.51 U B	--	5.38 U B	--	5.36 U B	--	5.29 U B	--	5.42 U B
2,3,7,8-TCDF	ng/kg	1.10 U B	--	1.08 U B	--	1.07 U B	--	1.06 U B	--	1.08 U B
1,2,3,4,7,8,9-HpCDF	ng/kg	5.51 U B	--	1.52 J Z	--	5.36 U B	--	5.29 U B	--	5.42 U B
2,3,4,7,8-PeCDF	ng/kg	5.51 U B	--	5.38 U B	--	5.36 U B	--	5.29 U B	--	5.42 U B
1,2,3,7,8-PeCDF	ng/kg	5.51 U B	--	1.01 J Z	--	5.36 U B	--	5.29 U B	--	5.42 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.51 U B	--	0.583 J Z	--	5.36 U B	--	5.29 U B	--	5.42 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.51 U B	--	3.38 J Z	--	5.36 U B	--	5.29 U B	--	5.42 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.51 U B	--	0.772 J Z	--	5.36 U B	--	5.29 U B	--	5.42 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.51 U B	--	15.0	--	5.36 U B	--	5.29 U B	--	5.42 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.51 U B	--	0.900 J Z	--	5.36 U B	--	5.29 U B	--	5.42 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.51 U B	--	5.38 U B	--	5.36 U B	--	5.29 U B	--	5.42 U B
Aroclor 1260	ug/kg	1.9 U	1.9 U	5.9 J FD	4.6 J FD	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U
Aroclor 1254	ug/kg	1.9 U	1.9 U	1.9 UJ FD	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U
Aroclor 1268	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U
Aroclor 5460	ug/kg	3.6 U	3.8 U	17 J FD	9.4	3.6 U	3.6 U	3.5 U	3.5 U	3.7 U
Aroclor 1232	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U
Aroclor 5442	ug/kg	3.6 U	3.8 U	3.6 U	3.6 U	3.6 U	3.6 U	3.5 U	3.5 U	3.7 U
Aroclor 1248	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U
Aroclor 1016	ug/kg	1.9 U	0.218 U B	1.9 U	0.215 U B	1.9 U	0.235 U B	1.8 U	0.204 U B	1.9 U
Aroclor 1262	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U
Aroclor 5432	ug/kg	3.6 U	3.8 U	3.6 U	3.6 U	3.6 U	3.6 U	3.5 U	3.5 U	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-284-SA6-SB-14.0-15.0S	SL-284-SA6-SB-15.5-16.5	SL-284-SA6-SB-15.5-16.5S	SL-285-SA6-SS-0.0-0.5	SL-285-SA6-SS-0.0-0.5S	SL-285-SA6-SB-4.0-5.0	SL-285-SA6-SB-4.0-5.0S	SL-285-SA6-SB-6.0-7.0	SL-285-SA6-SB-6.0-7.0S
Sample Date		11/30/2011	11/30/2011	11/30/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011
Sample Type		Split	N	Split	N	Split	N	Split	N	Split
SDG		11L003	DX156	11L003	DX156	11L003	DX156	11L003	DX156	11L003
Start Depth		14	15.5	15.5	0	0	4	4	6	6
End Depth		15	16.5	16.5	0.5	0.5	5	5	7	7
Chemical Name	Unit									
2,3,7,8-TCDD	ng/kg	--	1.11 U	--	1.06 U B	--	1.01 U B	--	1.03 U	--
1,2,3,7,8,9-HxCDD	ng/kg	--	5.54 U B	--	0.634 J Z	--	5.05 U B	--	5.16 U B	--
OCDD	ng/kg	--	11.1 U B	--	610	--	10.1 U B	--	3.35 J Z	--
1,2,3,4,6,7,8-HpCDD	ng/kg	--	5.54 U B	--	51.2	--	5.05 U B	--	5.16 U B	--
OCDF	ng/kg	--	11.1 U B	--	26.5	--	10.1 U B	--	10.3 U B	--
1,2,3,4,7,8-HxCDD	ng/kg	--	5.54 U B	--	0.400 J Z	--	5.05 U B	--	5.16 U B	--
1,2,3,7,8-PeCDD	ng/kg	--	5.54 U B	--	5.30 U B	--	5.05 U B	--	5.16 U B	--
2,3,7,8-TCDF	ng/kg	--	1.11 U B	--	0.325 J Z	--	1.01 U B	--	1.03 U B	--
1,2,3,4,7,8,9-HpCDF	ng/kg	--	5.54 U B	--	1.03 J Z	--	5.05 U B	--	5.16 U B	--
2,3,4,7,8-PeCDF	ng/kg	--	5.54 U B	--	5.30 U B	--	5.05 U B	--	5.16 U B	--
1,2,3,7,8-PeCDF	ng/kg	--	5.54 U B	--	9.39	--	5.05 U B	--	5.16 U B	--
1,2,3,6,7,8-HxCDF	ng/kg	--	5.54 U B	--	0.622 J Z	--	5.05 U B	--	5.16 U B	--
1,2,3,6,7,8-HxCDD	ng/kg	--	5.54 U B	--	1.41 J Z	--	5.05 U B	--	5.16 U B	--
2,3,4,6,7,8-HxCDF	ng/kg	--	5.54 U B	--	0.826 J Z	--	5.05 U B	--	5.16 U B	--
1,2,3,4,6,7,8-HpCDF	ng/kg	--	5.54 U B	--	9.22	--	5.05 U B	--	5.16 U B	--
1,2,3,4,7,8-HxCDF	ng/kg	--	5.54 U B	--	2.26 J Z	--	5.05 U B	--	5.16 U B	--
1,2,3,7,8,9-HxCDF	ng/kg	--	5.54 U B	--	5.30 U B	--	0.325 UJ E, B, Q	--	5.16 U B	--
Aroclor 1260	ug/kg	1.9 U	1.9 U	1.9 U	1.6 J Z	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Aroclor 1254	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Aroclor 1268	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Aroclor 1221	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Aroclor 5460	ug/kg	3.7 U	3.7 U	3.7 U	4.9	3.5 U	3.4 U	3.5 U	3.5 U	3.5 U
Aroclor 1232	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Aroclor 5442	ug/kg	3.7 U	3.7 U	3.7 U	3.5 U	3.5 U	3.4 U	3.5 U	3.5 U	3.5 U
Aroclor 1248	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Aroclor 1016	ug/kg	0.247 U B	1.9 U	0.217 U B	1.8 U	0.234 U B	1.8 U	0.221 U B	1.8 U	0.222 U B
Aroclor 1262	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Aroclor 1242	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Aroclor 5432	ug/kg	3.7 U	3.7 U	3.7 U	3.5 U	3.5 U	3.4 U	3.5 U	3.5 U	3.5 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-286-SA6-SS-0.0-0.5	SL-289-SA6-SS-0.0-0.5	SL-289-SA6-SB-3.5-4.5	SL-290-SA6-SS-0.0-0.5	SL-291-SA6-SS-0.0-0.5	SL-291-SA6-SB-2.0-3.0	SL-292-SA6-SS-0.0-0.5	SL-293-SA6-SS-0.0-0.5	SL-297-SA6-SS-0.0-0.5	SL-298-SA6-SS-0.0-0.5
Sample Date		07/14/2011	07/11/2011	07/25/2011	07/12/2011	07/11/2011	08/26/2011	07/11/2011	07/18/2011	07/11/2011	07/11/2011
Sample Type		N	N	N	N	N	N	N	N	N	N
SDG		DX114	DX110	DX118	DX111	DX111	DX130	DX110	DX114	DX110	DX110
Start Depth		0	0	3.5	0	0	2	0	0	0	0
End Depth		0.5	0.5	4.5	0.5	0.5	3	0.5	0.5	0.5	0.5
Chemical Name	Unit										
2,3,7,8-TCDD	ng/kg	0.0432 J Z	0.988 U	1.04 U	1.00 U B	1.55	2.13	0.643 J Z	0.102 J Z	0.939 J Z	2.24
1,2,3,7,8,9-HxCDD	ng/kg	0.898 J Z	4.94 U B	5.18 U B	0.405 J Z	5.51	2.92 J Z	4.86 J Z	0.383 J Z	27.6	78.0
OCDD	ng/kg	2100 J FD	20.8	10.4 U B	144	1880	1130	2220	109	56700 J *#	97400 J *#
1,2,3,4,6,7,8-HpCDD	ng/kg	147 J FD, Q	4.94 U B	5.18 U B	13.1	224	121	177	11.4	2850 J *#	5730 J *#
OCDF	ng/kg	32.2 J FD	9.88 U B	10.4 U B	4.26 J Z	51.0	37.4	38.7	3.58 J Z	736	1370
1,2,3,4,7,8-HxCDD	ng/kg	0.526 J Z	4.94 U	5.18 U B	0.160 J Z	2.61 J Z	1.55 J Z	2.52 J Z	0.142 J Z	12.0	34.4
1,2,3,7,8-PeCDD	ng/kg	0.210 J Z	4.94 U	5.18 U B	0.130 J Z	1.69 J Z	0.971 J Z	2.04 J Z	0.361 J Z	7.47	14.2
2,3,7,8-TCDF	ng/kg	0.765 J Z	0.988 U	0.0168 J Z	0.296 J Z	3.61	2.27	3.35	0.0948 J Z	11.8	6.91
1,2,3,4,7,8,9-HpCDF	ng/kg	1.27 J Z	4.94 U	5.18 U B	0.315 J Z	3.14 J Z	2.05 J Z	2.67 J Z	4.93 U B	41.6	95.7
2,3,4,7,8-PeCDF	ng/kg	1.30 J Z	4.94 U B	5.18 U B	0.410 J Z	5.73	2.36 J Z	4.57 J Z	4.93 U B	28.7	14.5
1,2,3,7,8-PeCDF	ng/kg	1.70 J FD, Z	0.0282 J Z	5.18 U B	1.59 J Z	3.85 J Z	11.0	3.99 J Z	0.315 J Z	33.6	20.6
1,2,3,6,7,8-HxCDF	ng/kg	1.13 J Z	4.94 U B	5.18 U B	0.246 J Z	3.36 J Z	2.80 J Z	3.55 J Z	0.219 J Z	17.7	32.6
1,2,3,6,7,8-HxCDD	ng/kg	2.20 J FD, Z	4.94 U B	5.18 U B	0.498 J Z	8.48	5.10	7.55	0.528 J Z	70.9	185
2,3,4,6,7,8-HxCDF	ng/kg	1.14 J FD, Z	4.94 U B	5.18 U B	5.00 U B	3.80 J Z	2.59 J Z	3.32 J Z	0.234 J Z	31.1	59.3
1,2,3,4,6,7,8-HpCDF	ng/kg	17.7 J FD	4.94 U B	5.18 U B	2.32 J Z	41.5	26.0	25.3	2.25 J Z	354	632
1,2,3,4,7,8-HxCDF	ng/kg	3.34 J Z	4.94 U B	5.18 U B	0.803 J Z	12.1	7.27	5.77	0.917 J Z	30.7	43.6
1,2,3,7,8,9-HxCDF	ng/kg	4.99 UJ FD	4.94 U B	5.18 U B	5.00 U B	0.943 J Z	0.687 J Z	1.02 J Z	4.93 U B	5.90	7.34
Aroclor 1260	ug/kg	8.6 UJ FD	1.7 U	1.8 U	1.7 U	170 U	78	87 U	1.4 J Z	340 U	8.6 U
Aroclor 1254	ug/kg	29 J FD	0.84 J Z	1.8 U	11	280	130	150	1.7 U	2600 J FD	8.6 U
Aroclor 1268	ug/kg	8.6 U	1.7 U	1.8 U	1.7 U	170 U	17 U	87 U	1.7 U	340 U	8.6 U
Aroclor 1221	ug/kg	8.6 U	1.7 U	1.8 U	1.7 U	170 U	17 U	87 U	1.7 U	340 U	8.6 U
Aroclor 5460	ug/kg	33	1.3 J Z	3.5 U	13	490	220	280	1.2 J Z	3300 J FD	17 U
Aroclor 1232	ug/kg	8.6 U	1.7 U	1.8 U	1.7 U	170 U	17 U	87 U	1.7 U	340 U	8.6 U
Aroclor 5442	ug/kg	17 U	3.4 U	3.5 U	3.3 U	330 U	34 U	170 U	3.3 U	670 U	17 U
Aroclor 1248	ug/kg	8.6 U	1.7 U	1.8 U	1.7 U	170 U	17 U	87 U	1.7 U	340 U	8.6 U
Aroclor 1016	ug/kg	8.6 U	0.111 UJ B, Q, E	1.8 U	1.7 U	170 U	17 U	87 U	1.7 U	340 U	8.6 U
Aroclor 1262	ug/kg	8.6 U	1.7 U	1.8 U	1.7 U	170 U	17 U	87 U	1.7 U	340 U	8.6 U
Aroclor 1242	ug/kg	8.6 U	1.7 U	1.8 U	1.7 U	170 U	17 U	87 U	1.7 U	340 U	8.6 U
Aroclor 5432	ug/kg	17 U	3.4 U	3.5 U	3.3 U	330 U	34 U	170 U	3.3 U	670 U	17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-300-SA6-SS-0.0-0.5	SL-301-SA6-SS-0.0-0.5	SL-301-SA6-SB-4.0-5.0	SL-302-SA6-SS-0.0-0.5	SL-303-SA6-SS-0.0-0.5	SL-304-SA6-SS-0.0-0.5	SL-305-SA6-SS-0.0-0.5	SL-305-SA6-SB-2.0-3.0	SL-306-SA6-SS-0.0-0.5	SL-306-SA6-SB-4.0-5.0
Sample Date		07/12/2011	07/19/2011	10/05/2011	07/14/2011	07/14/2011	07/14/2011	08/30/2011	08/30/2011	08/30/2011	08/30/2011
Sample Type		N	N	N	N	N	N	N	N	N	N
SDG		DX111	DX115	DX148	DX114	DX114	DX114	DX131	DX131	DX131	DX131
Start Depth		0	0	4	0	0	0	0	2	0	4
End Depth		0.5	0.5	5	0.5	0.5	0.5	0.5	3	0.5	5
Chemical Name	Unit										
2,3,7,8-TCDD	ng/kg	0.143 J Z	0.140 J Z	1.05 U	2.14	0.464 J Z	0.250 J Z	0.138 J Z	0.0479 J Z	0.0659 J Z	1.04 U
1,2,3,7,8,9-HxCDD	ng/kg	0.697 J Z	1.69 J Z	5.27 U B	11.9	9.94	5.81	1.04 J Z	5.25 U B	1.48 J Z	5.18 U B
OCDD	ng/kg	268	435	8.34 J Z	7830 J *#	5780 J *#	2850	485	10.5 U B	1080	10.4 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	25.8	37.0	5.27 U B	741	517	264	33.8	5.25 U B	76.2	5.18 U B
OCDF	ng/kg	8.18 J Z	14.6	10.5 U B	84.1	64.4	32.8	13.4	10.5 U B	31.2	10.4 U B
1,2,3,4,7,8-HxCDD	ng/kg	3.51 J Z	0.684 J Z	0.0432 J Z	5.94	4.84 J Z	2.57 J Z	0.489 J Z	5.25 U B	1.59 J Z	5.18 U
1,2,3,7,8-PeCDD	ng/kg	0.430 J Z	0.518 J Z	0.0784 J Z	2.60 J Z	2.54 J Z	1.33 J Z	0.537 J Z	0.130 J Z	0.323 J Z	5.18 U
2,3,7,8-TCDF	ng/kg	0.976 J Z	0.946 J Z	0.0408 J Z	1.35	0.885 J Z	0.723 J Z	0.583 J Z	0.0610 J Z	0.201 J Z	1.04 U
1,2,3,4,7,8,9-HpCDF	ng/kg	0.545 J Z	0.463 J Z	5.27 U B	3.89 J Z	2.84 J Z	1.49 J Z	0.587 J Z	5.25 U B	1.04 J Z	5.18 U B
2,3,4,7,8-PeCDF	ng/kg	1.67 J Z	0.976 J Z	5.27 U B	4.39 J Z	4.41 J Z	1.97 J Z	4.74 J Z	5.25 U B	2.04 J Z	5.18 U B
1,2,3,7,8-PeCDF	ng/kg	8.29	0.728 J Z	5.27 U B	2.40 J Z	1.59 J Z	0.941 J Z	0.612 J Z	0.174 J Z	0.268 J Z	5.18 U B
1,2,3,6,7,8-HxCDF	ng/kg	0.729 J Z	0.473 J Z	5.27 U B	4.43 J Z	3.40 J Z	1.77 J Z	1.02 J Z	0.131 J Z	0.950 J Z	5.18 U B
1,2,3,6,7,8-HxCDD	ng/kg	1.02 J Z	1.45 J Z	5.27 U B	21.9	17.3	8.70	1.34 J Z	0.0746 J Z	2.20 J Z	5.18 U
2,3,4,6,7,8-HxCDF	ng/kg	0.609 J Z	0.499 J Z	5.27 U B	4.62 J Z	3.31 J Z	1.91 J Z	1.66 J Z	5.25 U B	1.28 J Z	5.18 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	4.18 J Z	5.92	5.27 U B	66.9	54.0	23.3	6.66	5.25 U B	18.0	5.18 U B
1,2,3,4,7,8-HxCDF	ng/kg	2.24 J Z	1.84 J Z	5.27 U B	5.89	4.48 J Z	2.31 J Z	1.35 J Z	5.25 U B	1.14 J Z	5.18 U B
1,2,3,7,8,9-HxCDF	ng/kg	0.262 J Z	0.322 J Z	5.27 U B	3.88 J Z	5.09 U	1.38 J Z	0.368 J Z	5.25 U B	0.495 J Z	5.18 U B
Aroclor 1260	ug/kg	17 U	6.4	1.8 U	2.8	4.4 J Z	4.9	5.5 J S	1.9 U	4.3	1.8 U
Aroclor 1254	ug/kg	89	1.7 U	1.8 U	6.9	8.8 U	1.8 U	5.2 J S	1.9 U	6.9	1.8 U
Aroclor 1268	ug/kg	17 U	1.7 U	1.8 U	1.8 U	8.8 U	1.8 U	1.8 UJ S	1.9 U	1.7 U	1.8 U
Aroclor 1221	ug/kg	17 U	1.7 U	1.8 U	1.8 U	8.8 U	1.8 U	1.8 UJ S	1.9 U	1.7 U	1.8 U
Aroclor 5460	ug/kg	37	5.6	3.6 U	5.0	17 U	5.5	3.5 UJ S, E	3.6 U	6.1	3.5 U
Aroclor 1232	ug/kg	17 U	1.7 U	1.8 U	1.8 U	8.8 U	1.8 U	1.8 UJ S	1.9 U	1.7 U	1.8 U
Aroclor 5442	ug/kg	34 U	3.4 U	3.6 U	3.4 U	17 U	3.4 U	3.5 UJ S, E	3.6 U	3.4 U	3.5 U
Aroclor 1248	ug/kg	17 U	1.7 U	1.8 U	1.8 U	8.8 U	1.8 U	1.8 UJ S	1.9 U	1.7 U	1.8 U
Aroclor 1016	ug/kg	17 U	1.7 U	1.8 U	1.8 U	8.8 U	1.8 U	1.8 UJ S	1.9 U	1.7 U	1.8 U
Aroclor 1262	ug/kg	17 U	1.7 U	1.8 U	1.8 U	8.8 U	1.8 U	1.8 UJ S	1.9 U	1.7 U	1.8 U
Aroclor 1242	ug/kg	17 U	1.7 U	1.8 U	1.8 U	8.8 U	1.8 U	1.8 UJ S	1.9 U	1.7 U	1.8 U
Aroclor 5432	ug/kg	34 U	3.4 U	3.6 U	3.4 U	17 U	3.4 U	3.5 UJ S, E	3.6 U	3.4 U	3.5 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-307-SA6-SS-0.0-0.5	SL-308-SA6-SS-0.0-0.5	SL-309-SA6-SS-0.0-0.5	SL-310-SA6-SS-0.0-0.5	SL-310-SA6-SB-4.0-5.0	SL-311-SA6-SS-0.0-0.5	SL-311-SA6-SB-2.0-3.0	SL-314-SA6-SS-0.0-0.5	SL-314-SA6-SB-3.0-4.0
Sample Date		07/22/2011	07/22/2011	07/22/2011	07/20/2011	08/22/2011	07/26/2011	09/07/2011	07/21/2011	08/18/2011
Sample Type		N	N	N	N	N	N	N	N	N
SDG		DX118	DX118	DX118	DX116	DX129	DX120	DX132	DX117	DX128
Start Depth		0	0	0	0	4	0	2	0	3
End Depth		0.5	0.5	0.5	0.5	5	0.5	3	0.5	4
Chemical Name	Unit									
2,3,7,8-TCDD	ng/kg	1.00 U B	1.02 U B	1.01 U B	0.285 J Z	0.0246 J Z	0.151 J Z	1.07 U	59.5	1.02 U B
1,2,3,7,8,9-HxCDD	ng/kg	1.58 J Z	0.881 J Z	1.33 J Z	7.75	0.210 J Z	3.48 J Z	0.111 J Z	769	1.11 J Z
OCDD	ng/kg	1080	165	480	6990 J *#	38.6	618	9.15 J Z	280000 J *#	1560
1,2,3,4,6,7,8-HpCDD	ng/kg	77.4	13.5	40.4	414	2.28 J Z	93.1	1.47 J Z	25500 J *#	127
OCDF	ng/kg	41.7	13.7	18.7	178	0.781 J Z	52.3	10.7 U B	7800	77.9
1,2,3,4,7,8-HxCDD	ng/kg	0.718 J Z	5.08 U B	0.568 J Z	4.38 J Z	5.48 U	1.63 J Z	5.33 U	414	0.634 J Z
1,2,3,7,8-PeCDD	ng/kg	0.462 J Z	5.08 U B	0.405 J Z	2.12 J Z	5.48 U B	1.06 J Z	5.33 U B	256	2.57 J Z
2,3,7,8-TCDF	ng/kg	3.06	0.108 J Z	0.695 J Z	1.43	1.10 U	15.9	0.203 J Z	14.4	1.02 U
1,2,3,4,7,8,9-HpCDF	ng/kg	1.14 J Z	0.360 J Z	0.569 J Z	4.21 J Z	5.48 U B	3.49 J Z	5.33 U B	426	4.06 J Z
2,3,4,7,8-PeCDF	ng/kg	3.41 J Z	5.08 U B	1.59 J Z	4.71 J Z	5.48 U B	27.8	5.33 U B	40.7 J Z	5.11 U B
1,2,3,7,8-PeCDF	ng/kg	6.82	5.08 U B	2.06 J Z	1.31 J Z	5.48 U B	7.67	5.33 U B	26.3 J Z	5.11 U B
1,2,3,6,7,8-HxCDF	ng/kg	1.37 J Z	0.262 J Z	0.597 J Z	2.48 J Z	5.48 U B	6.28	5.33 U B	162	1.15 J Z
1,2,3,6,7,8-HxCDD	ng/kg	2.43 J Z	0.814 J Z	1.65 J Z	13.4	0.170 J Z	5.45	0.111 J Z	1250	4.91 J Z
2,3,4,6,7,8-HxCDF	ng/kg	1.39 J Z	0.278 J Z	0.668 J Z	3.65 J Z	5.48 U B	5.33	5.33 U B	273	1.86 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	12.3	4.96 J Z	7.07	52.4	5.48 U B	41.2	5.33 U B	3260	31.3
1,2,3,4,7,8-HxCDF	ng/kg	3.78 J Z	0.284 J Z	1.13 J Z	4.65 J Z	5.48 U B	10.2	5.33 U B	146	0.994 J Z
1,2,3,7,8,9-HxCDF	ng/kg	0.647 J Z	0.289 J Z	0.363 J Z	0.930 J Z	5.48 U B	5.07 U	5.33 U B	36.0 J Z	0.278 J Z
Aroclor 1260	ug/kg	1.7 U	1.7 U	4.8	26 J Z	0.73 J Z	17 U	1.8 U	29	1.8 U
Aroclor 1254	ug/kg	26	2.1	1.7 U	51	1.9 U	220	20	17 U	1.8 U
Aroclor 1268	ug/kg	1.7 U	1.7 U	1.7 U	34 U	1.9 U	17 U	1.8 U	17 U	1.8 U
Aroclor 1221	ug/kg	1.7 U	1.7 U	1.7 U	34 U	3.6 U	17 U	1.8 U	17 U	3.4 U
Aroclor 5460	ug/kg	3.5	1.5 J Z	8.8	69	3.7 U	34 U	3.5 U	42	3.5 U
Aroclor 1232	ug/kg	1.7 U	1.7 U	1.7 U	34 U	1.9 U	17 U	1.8 U	17 U	1.8 U
Aroclor 5442	ug/kg	3.3 U	3.4 U	3.3 U	66 U	3.7 U	34 U	3.5 U	33 U	3.5 U
Aroclor 1248	ug/kg	1.7 U	1.7 U	1.7 U	34 U	1.9 U	17 U	1.8 U	17 U	1.8 U
Aroclor 1016	ug/kg	1.7 U	1.7 U	1.7 U	34 U	1.9 U	17 U	1.8 U	17 U	1.8 U
Aroclor 1262	ug/kg	1.7 U	1.7 U	1.7 U	34 U	1.9 U	17 U	1.8 U	17 U	1.8 U
Aroclor 1242	ug/kg	1.7 U	1.7 U	1.7 U	34 U	1.9 U	17 U	1.8 U	17 U	1.8 U
Aroclor 5432	ug/kg	3.3 U	3.4 U	3.3 U	66 U	3.7 U	34 U	3.5 U	33 U	3.5 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-315-SA6-SS-0.0-0.5	SL-315-SA6-SB-3.0-4.0	SL-316-SA6-SS-0.0-0.5	SL-317-SA6-SS-0.0-0.5	SL-318-SA6-SS-0.0-0.5	SL-319-SA6-SS-0.0-0.5	SL-319-SA6-SB-4.0-5.0	SL-321-SA6-SS-0.0-0.5	SL-321-SA6-SB-2.0-3.0	SL-322-SA6-SS-0.0-0.5
Sample Date		07/21/2011	08/19/2011	07/21/2011	07/26/2011	07/21/2011	07/26/2011	10/05/2011	07/20/2011	08/16/2011	07/20/2011
Sample Type		N	N	N	N	N	N	N	N	N	N
SDG		DX117	DX129	DX117	DX119	DX117	DX119	DX148	DX116	DX128	DX116
Start Depth		0	3	0	0	0	0	4	0	2	0
End Depth		0.5	4	0.5	0.5	0.5	0.5	5	0.5	3	0.5
Chemical Name	Unit										
2,3,7,8-TCDD	ng/kg	24.7	0.163 J Z	8.30 J Z	0.161 J Z	4.23	0.279 J Z	1.07 U	0.0741 J Z	0.423 J Z	0.112 J Z
1,2,3,7,8,9-HxCDD	ng/kg	327	0.370 J Z	114	5.78	50.6	4.69 J Z	5.35 U B	0.487 J Z	5.52	2.67 J Z
OCDD	ng/kg	289000 J *#	127	74300 J *#	2870	37200 J *#	3240	9.80 J Z	348	3800	4170 J *#
1,2,3,4,6,7,8-HpCDD	ng/kg	21100 J *#	19.7	6310	263	2800 J *#	223	5.35 U B	22.3	321	262
OCDF	ng/kg	10800	4.83 J Z	2960	479	1100	116	10.7 U B	6.42 J Z	29.9	154
1,2,3,4,7,8-HxCDD	ng/kg	229	0.458 J Z	84.7	3.00 J Z	37.9	2.28 J Z	5.35 U	4.93 U B	4.38 J Z	2.73 J Z
1,2,3,7,8-PeCDD	ng/kg	448	0.615 J Z	120	1.24 J Z	49.4	1.43 J Z	5.35 UJ FD	4.93 U B	1.78 J Z	0.666 J Z
2,3,7,8-TCDF	ng/kg	7.60 J Z	0.0808 J Z	2.23 J Z	0.671 J Z	1.87	1.55	1.07 UJ FD	0.987 U B	0.172 J Z	0.995 U B
1,2,3,4,7,8,9-HpCDF	ng/kg	588	0.491 J Z	159	10.2	46.0	2.85 J Z	5.35 U B	0.299 J Z	2.27 J Z	6.14
2,3,4,7,8-PeCDF	ng/kg	34.4 J Z	0.464 J Z	11.3 J Z	1.42 J Z	6.15	3.20 J Z	5.35 U B	4.93 U B	1.28 J Z	0.511 J Z
1,2,3,7,8-PeCDF	ng/kg	25.6 J Z	0.516 J Z	12.6 J Z	2.18 J Z	8.35	6.05	5.35 UJ B, FD	4.93 U B	0.983 J Z	0.253 J Z
1,2,3,6,7,8-HxCDF	ng/kg	209	0.280 J Z	59.3	3.39 J Z	15.6	3.02 J Z	5.35 U B	4.93 U B	1.59 J Z	1.39 J Z
1,2,3,6,7,8-HxCDD	ng/kg	1060	0.537 J Z	271	8.07	116	8.77	5.35 UJ B, FD	0.669 J Z	8.78	5.84
2,3,4,6,7,8-HxCDF	ng/kg	336	0.264 J Z	90.6	4.29 J Z	27.4	2.73 J Z	5.35 UJ B, FD	0.183 J Z	2.51 J Z	2.07 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	4420	2.46 J Z	1160	115	428	39.5	5.35 U B	3.50 J Z	46.4	58.9
1,2,3,4,7,8-HxCDF	ng/kg	193	0.353 J Z	51.5	4.08 J Z	16.4	7.23	5.35 UJ B, FD	0.276 J Z	3.22 J Z	3.34 J Z
1,2,3,7,8,9-HxCDF	ng/kg	36.7 J Z	0.226 J Z	46.2 U	0.540 J Z	3.37 J Z	1.06 J Z	5.35 UJ FD	0.208 J Z	1.94 J Z	1.34 J Z
Aroclor 1260	ug/kg	35 U	1.8 U	17 U	4.7	8.7 U	24 J H	1.0 J FD, Z	1.7 U	1.8 U	1.7 U
Aroclor 1254	ug/kg	35 U	1.8 U	17 U	1.7 U	39	15 J H	0.55 J FD, Z	2.0	1.8 U	2.9
Aroclor 1268	ug/kg	35 U	1.8 U	17 U	1.7 U	8.7 U	1.7 UJ H	1.9 U	1.7 U	1.8 U	1.7 U
Aroclor 1221	ug/kg	35 U	3.4 U	17 U	1.7 U	8.7 U	1.7 UJ H	1.9 U	1.7 U	4.6 U	1.7 U
Aroclor 5460	ug/kg	150	3.5 U	74	19	54	18 J H	3.6 U	3.3 U	3.4 U	3.3 U
Aroclor 1232	ug/kg	35 U	1.8 U	17 U	1.7 U	8.7 U	1.7 UJ H	1.9 U	1.7 U	1.8 U	1.7 U
Aroclor 5442	ug/kg	67 U	3.5 U	33 U	3.3 U	17 U	3.3 UJ H	3.6 U	3.3 U	3.4 U	3.3 U
Aroclor 1248	ug/kg	120	1.8 U	50	1.7 U	8.7 U	1.7 UJ H	1.9 U	1.7 U	1.8 U	1.7 U
Aroclor 1016	ug/kg	35 U	1.8 U	17 U	1.7 U	8.7 U	1.7 UJ H	1.9 U	1.7 U	1.8 U	1.7 U
Aroclor 1262	ug/kg	35 U	1.8 U	17 U	1.7 U	8.7 U	1.7 UJ H	1.9 U	1.7 U	1.8 U	1.7 U
Aroclor 1242	ug/kg	35 U	1.8 U	17 U	1.7 U	8.7 U	1.7 UJ H	1.9 U	1.7 U	2.1 U	1.7 U
Aroclor 5432	ug/kg	67 U	3.5 U	33 U	3.3 U	17 U	3.3 UJ H	3.6 U	3.3 U	3.4 U	3.3 U

U - Compound not detected above the reporting limit
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R - Result is rejected

Sample Name		SL-004-SA6-SS-0.0-0.5	SL-005-SA6-SS-0.0-0.5	SL-009-SA6-SS-0.0-0.5	SL-012-SA6-SS-0.0-0.5	SL-013-SA6-SS-0.0-0.5	SL-017-SA6-SS-0.0-0.5	SL-020-SA6-SS-0.0-0.5
Sample Date		07/14/2011	07/14/2011	07/27/2011	07/26/2011	07/26/2011	07/27/2011	07/14/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE201	DE201	DE210	DE209	DE209	DE210	DE201
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U
Dicamba	ug/kg	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.1 U	9.1 U	9.2 U	9.3 U	9.1 U	9.3 U	9.3 U
Dinitrobutyl Phenol	ug/kg	2.4 R L	2.4 R L	2.5 R Q	2.5 R L	2.4 R L	2.5 U	2.5 R L
MCPP	ug/kg	250 U	270 U	260 U	260 U	250 U	260 U	260 U B
2,4,5-TP	ug/kg	0.085 J Z	0.17 U	0.17 U	0.18 U	0.17 U	0.17 U	0.44
2,4,5-T	ug/kg	0.17 U	0.26 U	0.17 U	0.18 U	0.17 U	0.17 U	0.15 J Z
MCPA	ug/kg	260	250 U	630 U	140 J Z	250 U	260 U	260 U
2,4-D	ug/kg	3.6 U	3.6 U	3.7 U	3.7 U	3.6 U	3.7 U	2.7 J Z
2,4 DB	ug/kg	0.64 J Z	12 U	1.2 J FD, Q, Z	3.3	0.94 J Z	1.7 U	1.0 J Z
Toxaphene	ug/kg	45 U	600 U	200 U	6.8 U	6.7 U	320 U	2000 U
Heptachlor Epoxide	ug/kg	0.17 U	0.74 U	3.9 U	0.047 J S, Z	0.040 J Z	3.4 U	1.8 U
Endosulfan Sulfate	ug/kg	0.34 U	0.34 U	3.5 U	0.35 U	0.34 U	7.0 U	0.35 U
Mirex	ug/kg	0.34 U	0.34 U	3.5 U	0.35 U	0.36 U	7.3 U	0.79 U
Aldrin	ug/kg	0.17 U	0.17 U	1.7 U	0.17 U	0.17 U	3.4 U	0.17 U
Alpha-BHC	ug/kg	0.17 U	0.17 U	1.7 U	0.17 U	0.17 U	3.4 U	0.17 U
Beta-BHC	ug/kg	0.17 U	0.17 U	1.7 U	0.17 U	0.17 U	3.4 U	0.17 U
Delta-BHC	ug/kg	0.17 U	0.17 U	1.7 U	0.17 U	0.17 U	3.4 U	0.22 U
Endosulfan II	ug/kg	0.34 U	0.34 U	3.5 U	0.25 J S, Z	0.22 J Z	7.0 U	8.7 U
4,4'-DDT	ug/kg	8.8	98	66 J FD	7.5	3.0	13 U	120 U
Endrin Ketone	ug/kg	0.34 U	0.34 U	3.5 U	0.35 U	0.34 U	7.0 U	0.35 U
Chlordane	ug/kg	2.2 J Z	6.8 J S	27 J FD, Z	3.5 U	2.3 J Z	70 U	18 J Z
Chlordane (technical)	ug/kg	--	--	--	--	--	--	--
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.17 U	1.7 U	0.17 U	0.050 J Z	3.4 U	0.17 U
Dieldrin	ug/kg	3.1	8.4	14 U	0.68 U	0.45	7.0 U	3.5 U
Endrin	ug/kg	0.34 U	2.6 U	3.6 U	0.35 U	0.34 U	7.0 U	7.2 U
Methoxychlor	ug/kg	1.7 U	1.7 U	17 U	1.7 U	1.7 U	34 U	1.7 U
4,4'-DDD	ug/kg	0.34 U	0.34 U	3.5 U	0.35 U	0.34 U	7.0 U	0.35 U
4,4'-DDE	ug/kg	0.34 U	4.8 J L	13 J FD	2.4	0.74	7.0 U	6.5 J L
Endrin Aldehyde	ug/kg	0.43 U	5.6 U	5.4 U	0.50 U	0.47	7.0 U	7.3
Heptachlor	ug/kg	0.17 U	0.17 U	1.7 U	0.17 U	0.17 U	3.4 U	0.24 U
Endosulfan I	ug/kg	0.17 U	0.17 U	1.7 U	0.17 U	0.17 U	3.4 U	0.17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-028-SA6-SS-0.0-0.5	SL-029-SA6-SS-0.0-0.5	SL-030-SA6-SS-0.0-0.5	SL-035-SA6-SS-0.0-0.5	SL-037-SA6-SS-0.0-0.5	SL-040-SA6-SS-0.0-0.5	SL-043-SA6-SS-0.0-0.5
Sample Date		07/27/2011	07/14/2011	07/13/2011	07/13/2011	07/14/2011	07/13/2011	07/14/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE210	DE201	DE199	DE199	DE200	DE199	DE201
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U
Dicamba	ug/kg	1.2 U	1.2 U	1.2 U	1.2 U	1.2 R Q	1.2 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg	9.2 U	9.1 U	9.2 U	9.1 U	9.2 U	9.3 U	9.4 U
Dinitrobutyl Phenol	ug/kg	2.4 U	2.4 R L	2.5 R L	2.4 R L	2.4 R Q	2.5 R L	2.5 R L
MCPP	ug/kg	150 J Z	250 U B	260 UJ B, *#	370 U	260 U	260 U	260 U
2,4,5-TP	ug/kg	0.17 U	0.17 U	0.22 J L, *#	0.17 UJ L	0.17 U	0.18 UJ L	0.18 U
2,4,5-T	ug/kg	0.25	0.17 U	0.17 U	0.17 U	0.17 U	0.18 U	0.18 U
MCPA	ug/kg	250 U	250 U	260 U	370 U	260 U	260 U	260 U
2,4-D	ug/kg	3.7 U	3.6 U	3.7 U	8.0 J *#	3.7 U	3.7 U	3.8 U
2,4 DB	ug/kg	1.7 U	2.0 U	25 U	1.7 U	1.1 J Z	1.8 U	1.3 J Z
Toxaphene	ug/kg	170 U	30 U	6.8 U	6.7 U	14 J S	680 U	6.9 U
Heptachlor Epoxide	ug/kg	6.6 U	0.17 U	0.81 U	0.23 U	0.17 U	31 U	0.17 U
Endosulfan Sulfate	ug/kg	8.7 U	0.35 U	0.35 U	0.34 U	0.35 U	35 U	0.35 U
Mirex	ug/kg	8.7 U	0.35 U	0.35 U	0.34 U	0.35 U	35 U	0.27 J Z
Aldrin	ug/kg	4.2 U	0.17 U	0.17 U	0.17 U	0.17 U	17 U	0.17 U
Alpha-BHC	ug/kg	4.2 U	0.17 U	0.17 U	0.17 U	0.17 U	17 U	0.17 U
Beta-BHC	ug/kg	4.2 U	0.17 U	0.17 U	0.17 U	0.17 U	17 U	0.17 U
Delta-BHC	ug/kg	4.2 U	0.17 U	0.17 U	0.099 J S, Z	0.20 J S, Q	17 U	0.040 J L, Z
Endosulfan II	ug/kg	9.9 U	0.35 U	1.5 U	0.34 U	0.35 U	35 U	0.35 U
4,4'-DDT	ug/kg	84	5.0	24	5.0	0.68 J S	330	0.35 U
Endrin Ketone	ug/kg	8.7 U	0.35 U	0.35 U	0.34 U	0.35 U	35 U	0.35 U
Chlordane	ug/kg	87 U	3.8	10	65	8.9 J S	350 U	3.5 U
Chlordane (technical)	ug/kg	--	--	--	--	--	--	--
Gamma-BHC (Lindane)	ug/kg	4.2 U	0.17 U	0.051 J Z, *#	0.46 J S	0.17 U	17 U	0.17 U
Dieldrin	ug/kg	35 U	0.57 U	4.1 U	0.34 U	0.35 U	35 U	0.35 U
Endrin	ug/kg	8.7 U	0.35 U	1.6 U	0.49 U	0.35 U	35 U	0.35 U
Methoxychlor	ug/kg	42 U	1.7 U	1.7 U	1.7 U	1.7 U	170 U	1.7 U
4,4'-DDD	ug/kg	8.7 U	0.35 U	0.35 U	0.34 U	0.35 U	35 U	0.35 U
4,4'-DDE	ug/kg	19	0.95 U	3.1 U	0.65 U	0.45 J S	120 U	0.096 J L, Z
Endrin Aldehyde	ug/kg	9.8 U	0.65 U	2.6 UJ C	0.72 U	0.35 U	35 U	0.21 J Z
Heptachlor	ug/kg	4.2 U	0.16 U	0.17 U	0.43 U	0.17 U	17 U	0.17 U
Endosulfan I	ug/kg	4.2 U	0.17 U	0.17 U	0.17 U	0.18 U	17 U	0.17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-044-SA6-SS-0.0-0.5	SL-046-SA6-SS-0.0-0.5	SL-047-SA6-SS-0.0-0.5	SL-048-SA6-SS-0.0-0.5	SL-049-SA6-SS-0.0-0.5	SL-050-SA6-SS-0.0-0.5	SL-051-SA6-SS-0.0-0.5
Sample Date		07/14/2011	07/13/2011	07/13/2011	07/14/2011	07/14/2011	07/14/2011	07/14/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE201	DE199	DE199	DE200	DE200	DE200	DE200
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dicamba	ug/kg	1.2 U	1.2 U	1.2 U	1.2 U	0.68 J Z	1.4	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.2 U	9.1 U	9.0 U	9.0 U	9.1 U	9.1 U	9.2 U
Dinitrobutyl Phenol	ug/kg	2.4 R L	2.4 R L	2.4 R L	2.4 U	2.4 U	2.4 U	2.4 U
MCPP	ug/kg	250 U	250 U	380 UJ B, *#	250 U	250 U	250 U	250 U
2,4,5-TP	ug/kg	0.20	0.17 UJ L	0.17 UJ L	0.17 U	0.086 J Z	0.17 U	0.17 U
2,4,5-T	ug/kg	0.20 U	0.17 U	0.39 U	0.17 U	0.17 U	0.17 U	0.23
MCPA	ug/kg	300 U	1000 J *#	250 U	1000	250 U	250 U	250 U
2,4-D	ug/kg	3.7 U	3.6 U	3.6 U	3.6 U	3.6 U	3.7 U	3.7 U
2,4 DB	ug/kg	2.2 U	5.0 U	1.7 U	9.1 U	9.1 U	2.0 U	1.7 U
Toxaphene	ug/kg	6.7 U	6.7 U	6.7 U	6.6 U	6.7 U	6.7 U	6.7 U
Heptachlor Epoxide	ug/kg	0.17 U	0.17 U	0.17 U	0.039 J Z	0.17 U	0.17 U	0.10 J Z
Endosulfan Sulfate	ug/kg	0.35 U	0.34 U	0.34 U	0.34 U	0.34 U	0.35 U	0.35 U
Mirex	ug/kg	0.35 U	0.34 U	0.34 U	0.34 U	0.34 U	0.35 U	0.35 U
Aldrin	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Alpha-BHC	ug/kg	0.17 U	0.17 U	0.045 J Z	0.17 U	0.17 U	0.17 U	0.17 U
Beta-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Delta-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Endosulfan II	ug/kg	0.35 U	0.34 U	0.34 U	0.13 J Z	0.34 U	0.35 U	0.47 U
4,4'-DDT	ug/kg	0.61	1.6	0.68 U	0.47	0.21 J Z	0.84	2.4
Endrin Ketone	ug/kg	0.35 U	0.34 U	0.34 U	0.10 J Z	0.34 U	0.35 U	0.35 U
Chlordane	ug/kg	3.5 U	2.3 J Z	3.4 U	3.4 U	124.0 U F, Z	3.5 U	3.7
Chlordane (technical)	ug/kg	--	--	--	--	--	--	--
Gamma-BHC (Lindane)	ug/kg	0.044 J Z	0.076 J Z	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Dieldrin	ug/kg	0.35 U	0.34 U	0.34 U	0.34 U	0.34 U	0.35 U	0.35 U
Endrin	ug/kg	0.35 U	0.34 U	0.34 U	0.34 U	0.34 U	0.35 U	0.35 U
Methoxychlor	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
4,4'-DDD	ug/kg	0.35 U	0.34 U	0.34 U	0.34 U	0.34 U	0.35 U	0.35 U
4,4'-DDE	ug/kg	0.35 U	0.34 U	0.34 U	0.071 J Z	0.13 J Z	0.53	1.1
Endrin Aldehyde	ug/kg	0.35 U	0.34 U	0.34 U	0.11 J Z	0.34 U	0.35 U	0.80 U
Heptachlor	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.080 J Z	0.17 U
Endosulfan I	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-052-SA6-SS-0.0-0.5	SL-053-SA6-SS-0.0-0.5	SL-054-SA6-SS-0.0-0.5	SL-055-SA6-SS-0.0-0.5	SL-056-SA6-SS-0.0-0.5	SL-058-SA6-SS-0.0-0.5	SL-059-SA6-SS-0.0-0.5
Sample Date		07/14/2011	07/14/2011	07/14/2011	07/14/2011	07/13/2011	07/13/2011	07/13/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE200	DE200	DE200	DE200	DE201	DE201	DE199
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.7 U	1.7 U	1.7 U	2.3 U	1.7 U	1.7 U	1.7 U
Dicamba	ug/kg	1.2 U	1.2 U	0.47 J Z	1.2 U	1.2 U	1.2 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	90 U
Dinitrobutyl Phenol	ug/kg	2.4 U	2.4 U	2.4 U	2.4 U	2.4 R L	2.4 R L	24 R L
MCPP	ug/kg	250 U	250 U	250 U	250 U	250 U	250 U	250 U
2,4,5-TP	ug/kg	0.17 U	0.17 U	0.43	0.10 J Z	0.17 U	0.17 U	0.17 UJ L
2,4,5-T	ug/kg	0.091 J Z	0.17 U	0.28 U	0.17 U	0.17 U	0.40 U	0.67 U
MCPA	ug/kg	250 U	490 U B	250 U	250 U	250 U	250 U	910 J *#
2,4-D	ug/kg	3.6 U	3.6 U	3.7 U	3.6 U	3.6 U	3.6 U	3.6 U
2,4 DB	ug/kg	2.1	4.3	3.0	15 U	5.3	0.99 J Z	17 U
Toxaphene	ug/kg	6.7 U	6.7 UJ S	6.7 U	6.7 U	6.7 UJ H	27 U	6.6 U
Heptachlor Epoxide	ug/kg	1.0 U	0.17 UJ S	0.051 J Z	0.062 J Z	0.71 J H	0.17 U	0.17 U
Endosulfan Sulfate	ug/kg	0.34 U	0.35 UJ S	0.35 U	0.35 U	0.34 UJ H	0.34 U	0.34 U
Mirex	ug/kg	0.34 U	0.35 UJ S	0.35 U	0.35 U	0.34 UJ H	0.34 U	0.34 U
Aldrin	ug/kg	0.17 U	0.17 UJ S	0.17 U	0.17 U	0.17 UJ H	0.17 U	0.17 U
Alpha-BHC	ug/kg	0.17 U	0.17 UJ S	0.17 U	0.17 U	0.17 UJ H	0.17 U	0.17 U
Beta-BHC	ug/kg	0.17 U	0.17 UJ S	0.17 U	0.17 U	0.17 UJ H	0.17 U	0.17 U
Delta-BHC	ug/kg	0.17 U	0.17 UJ S	0.041 J Z	0.039 J Z	0.037 J H, Z	0.17 U	0.071 J Z
Endosulfan II	ug/kg	5.7 U	0.35 U	0.35 U	0.14 J Z	0.34 UJ H	0.34 U	0.34 U
4,4'-DDT	ug/kg	16	0.60 J S	1.4	2.4	19 J H	1.3 U	1.1
Endrin Ketone	ug/kg	0.34 U	0.35 UJ S	0.35 U	0.35 U	0.34 UJ H	0.34 U	0.34 U
Chlordane	ug/kg	17 U	3.5 UJ S	3.5 U	5.4	3.4 UJ H	3.4 U	3.4 U
Chlordane (technical)	ug/kg	--	--	--	--	--	--	--
Gamma-BHC (Lindane)	ug/kg	0.066 J Z	0.17 UJ S	0.17 U	0.17 U	0.17 UJ H	0.043 J S, Z	0.17 U
Dieldrin	ug/kg	3.3	0.35 UJ S	0.35 U	0.085 J Z	3.3 J H, Z	0.34 U	0.34 U
Endrin	ug/kg	0.34 U	0.35 UJ S	0.35 U	0.35 U	0.34 UJ H	0.34 U	0.34 U
Methoxychlor	ug/kg	1.7 U	1.7 UJ S	1.7 U	1.7 U	1.7 UJ H	1.7 U	1.7 U
4,4'-DDD	ug/kg	0.34 U	0.35 UJ S	0.35 U	0.35 U	0.34 UJ H	0.34 U	0.34 U
4,4'-DDE	ug/kg	3.1	0.35 J S	0.49	0.74	3.4 UJ H	0.34 U	0.34 U
Endrin Aldehyde	ug/kg	1.2 U	0.35 UJ S	0.35 U	0.22 J Z	2.2 UJ H	0.34 U	0.34 U
Heptachlor	ug/kg	0.17 U	0.17 UJ S	0.17 U	0.17 U	0.17 UJ H	0.17 U	0.17 U
Endosulfan I	ug/kg	0.17 U	0.17 UJ S	0.17 U	0.17 U	0.17 UJ H	0.17 U	0.17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-060-SA6-SS-0.0-0.5	SL-063-SA6-SS-0.0-0.5	SL-064-SA6-SS-0.0-0.5	SL-066-SA6-SS-0.0-0.5	SL-067-SA6-SS-0.0-0.5	SL-098-SA6-SS-0.0-0.5	SL-109-SA6-SS-0.0-0.5
Sample Date		07/14/2011	07/14/2011	07/14/2011	07/13/2011	07/13/2011	07/12/2011	07/12/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE200	DE200	DE200	DE199	DE199	DE198	DE198
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dicamba	ug/kg	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.2 U	9.3 U	9.2 U	9.0 U	9.1 U	9.2 U	9.2 U
Dinitrobutyl Phenol	ug/kg	2.5 U	2.5 U	2.5 U	2.4 R L	2.4 R L	2.4 R L	2.5 R L
MCPP	ug/kg	260 U	260 U	260 U	250 U	250 U	250 U	260 U
2,4,5-TP	ug/kg	0.17 U	0.17 U	0.17 U	0.17 UJ L	0.17 UJ L	0.17 U	0.17 U
2,4,5-T	ug/kg	0.41 U	0.21 U	0.17 U	0.17 U	0.18 U	0.25 U	0.23
MCPA	ug/kg	260 U	260 U	260 U	250 U	560 U	350	260 U
2,4-D	ug/kg	3.7 U	3.7 U	3.7 U	3.6 U	3.6 U	3.7 U	3.7 U
2,4 DB	ug/kg	3.1 U	4.7 J S	2.0 U	2.0 U	1.7 U	1.7 U	3.8
Toxaphene	ug/kg	6.8 U	6.8 U	6.7 U	6.7 UJ S	6.7 U	6.7 U	130 U
Heptachlor Epoxide	ug/kg	0.42 U	0.53 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	9.4 U
Endosulfan Sulfate	ug/kg	0.35 U	0.35 U	0.40 U	0.34 UJ S	0.34 U	0.35 U	7.0 U
Mirex	ug/kg	0.35 U	0.35 U	0.42 U	0.31 J S, Z, *#	0.34 U	0.73	3.8 J Z
Aldrin	ug/kg	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	3.4 U
Alpha-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	3.4 U
Beta-BHC	ug/kg	0.17 U	0.17 U	0.27	0.17 UJ S	0.17 U	0.17 U	3.4 U
Delta-BHC	ug/kg	0.17 U	0.24 U	0.17 U	0.054 J S, Z, *#	0.22 J *#	0.17 U	3.4 U
Endosulfan II	ug/kg	0.57 U	3.8 U	0.35 U	0.34 UJ S	0.34 U	0.35 U	7.0 U
4,4'-DDT	ug/kg	5.9	15	1.7 U	0.32 J S, Z	0.98	1.2	9.1 U
Endrin Ketone	ug/kg	0.35 U	0.35 U	0.35 U	0.34 UJ S	0.34 U	0.35 U	7.0 U
Chlordane	ug/kg	110.0 U F, Z	13 J S	3.5 U	3.4 UJ S	3.4 U	3.6 U	150
Chlordane (technical)	ug/kg	--	--	--	--	--	--	--
Gamma-BHC (Lindane)	ug/kg	0.047 J Z	0.17 U	0.17 U	0.17 UJ S	0.054 J Z, *#	0.17 U	0.86 J Z
Dieldrin	ug/kg	0.35 U	2.8	0.35 U	0.34 UJ S	0.34 U	0.35 U	7.0 U
Endrin	ug/kg	0.35 U	1.1 U	0.35 U	0.34 UJ S	0.39 U	0.35 U	7.0 U
Methoxychlor	ug/kg	1.7 U	1.7 U	1.7 U	1.7 UJ S	1.7 U	1.7 U	34 U
4,4'-DDD	ug/kg	0.35 U	0.35 U	0.35 U	0.34 UJ S	0.34 U	0.35 U	7.0 U
4,4'-DDE	ug/kg	1.6	1.8 U	0.80 U	0.34 UJ S	0.50	0.35 U	7.0 U
Endrin Aldehyde	ug/kg	0.37 U	1.7 U	0.35 U	0.090 J S, Z	0.34 U	0.35 U	7.0 U
Heptachlor	ug/kg	0.17 U	0.17 U	0.17 U	0.073 J S, Z	0.17 U	0.17 U	6.8
Endosulfan I	ug/kg	0.17 U	0.17 U	0.30 U	0.17 UJ S	0.17 U	0.17 U	3.4 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-110-SA6-SS-0.0-0.5	SL-113-SA6-SS-0.0-0.5	SL-126-SA6-SS-0.0-0.5	SL-127-SA6-SS-0.0-0.5	SL-128-SA6-SS-0.0-0.5	SL-133-SA6-SS-0.0-0.5	SL-134-SA6-SS-0.0-0.5
Sample Date		07/12/2011	07/12/2011	07/14/2011	07/18/2011	07/18/2011	07/18/2011	07/18/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE198	DE198	DE201	DE202	DE202	DE202	DE202
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dicamba	ug/kg	1.2 U	1.3 U	1.2 U	1.2 R Q	1.2 U	1.2 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.2 U	9.4 U	9.0 U	9.0 U	9.1 U	9.1 U	9.0 U
Dinitrobutyl Phenol	ug/kg	2.4 R L	2.5 R L	2.4 R L	2.4 R Q, L	0.81 J L, Z	2.4 R L	2.4 R L
MCPP	ug/kg	250 U	500	250 U	250 U	250 U	250 U	250 U
2,4,5-TP	ug/kg	0.17 U	0.18 U	0.080 J Z	0.17 U	0.17 U	0.17 U	0.17 U
2,4,5-T	ug/kg	0.17 U	0.38	0.17 U	0.17 U	0.31 U	0.46	0.17 U
MCPA	ug/kg	310	290	250 U	250 U	250 U	250 U	250 U
2,4-D	ug/kg	3.7 U	3.8 U	3.6 U	3.6 U	3.6 U	3.7 U	3.6 U
2,4 DB	ug/kg	7.1	6.9	5.0 U	2.3	8.6 U	1.7 U	1.7 U
Toxaphene	ug/kg	67 U	6.9 R S	26 U	6.7 U	6.6 U	6.7 U	6.7 U
Heptachlor Epoxide	ug/kg	1.7 U	0.17 R S	0.38 U	0.17 U	0.17 U	0.17 U	0.17 U
Endosulfan Sulfate	ug/kg	3.5 U	0.36 R S	0.34 U	0.34 U	0.34 U	0.35 U	0.42 U
Mirex	ug/kg	3.5 U	0.36 R S	0.34 U	0.34 U	0.34 U	0.35 U	0.34 U
Aldrin	ug/kg	1.7 U	0.17 R S	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Alpha-BHC	ug/kg	1.7 U	1.7 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Beta-BHC	ug/kg	1.7 U	0.17 R S	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Delta-BHC	ug/kg	1.7 U	0.17 R S	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Endosulfan II	ug/kg	3.5 U	0.30 J S, Z	0.34 U	0.34 U	0.34 U	0.35 U	0.39 U
4,4'-DDT	ug/kg	4.9 U	1.7 J S	3.5 U	1.9 J S	0.57	1.1 J S	3.7
Endrin Ketone	ug/kg	3.5 U	1.3 J S	0.34 U	0.34 U	0.35 U	0.35 U	0.68 U
Chlordane	ug/kg	35 U	3.5 J S, Z	3.1 J Z	3.4 U	3.4 U	3.5 U	3.6 J S
Chlordane (technical)	ug/kg	--	--	--	--	--	--	--
Gamma-BHC (Lindane)	ug/kg	1.7 U	0.17 R S	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Dieldrin	ug/kg	3.5 U	0.92 J S	1.9 U	0.34 U	0.34 U	0.35 U	1.1 U
Endrin	ug/kg	3.5 U	0.36 R S	0.34 U	0.34 U	0.34 U	0.35 U	0.34 U
Methoxychlor	ug/kg	17 U	1.7 R S	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
4,4'-DDD	ug/kg	3.5 U	0.76 J S	0.34 U	0.34 U	0.34 U	0.35 U	0.34 U
4,4'-DDE	ug/kg	3.5 U	0.36 R S	1.4 U	0.34 U	0.34 U	0.35 U	0.41 U
Endrin Aldehyde	ug/kg	3.5 U	0.67 R S	0.34 U	0.34 U	0.34 U	0.35 U	0.42 U
Heptachlor	ug/kg	1.7 U	0.17 R S	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Endosulfan I	ug/kg	1.7 U	0.17 R S	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-142-SA6-SS-0.0-0.5	SL-143-SA6-SS-0.0-0.5	SL-145-SA6-SS-0.0-0.5	SL-146-SA6-SS-0.0-0.5	SL-147-SA6-SS-0.0-0.5	SL-148-SA6-SS-0.0-0.5	SL-149-SA6-SS-0.0-0.5
Sample Date		07/18/2011	07/18/2011	07/18/2011	07/18/2011	07/18/2011	07/18/2011	07/11/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE202	DE202	DE202	DE202	DE202	DE202	DE197
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.7 U	2.3 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dicamba	ug/kg	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.2 U	9.1 U
Dinitrobutyl Phenol	ug/kg	2.4 R L	2.4 R L	2.4 R L	2.4 R L	2.4 R L	2.4 R L	2.4 R L
MCPP	ug/kg	250 U	250 U	250 U	250 U	250 U	260 U	250 U
2,4,5-TP	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.69	0.17 U
2,4,5-T	ug/kg	0.50	0.17 U	0.17 U	0.51 U	0.20	0.17 U	0.22 U
MCPA	ug/kg	250 U	250 U	250 U	250 U	250 U	1900 U	250 U
2,4-D	ug/kg	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.7 U	3.6 U
2,4 DB	ug/kg	4.1	1.7	1.7 U	13 U	7.5	1.1 J Z	1.3 J Z
Toxaphene	ug/kg	6.7 U	6.7 U	6.6 U	6.7 U	6.7 UJ S	6.7 U	6.7 U
Heptachlor Epoxide	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.21 U	0.56 J S
Endosulfan Sulfate	ug/kg	0.34 U	0.34 U	0.34 U	0.34 U	0.34 UJ S	0.35 U	0.34 U
Mirex	ug/kg	0.36 U	0.34 U	0.34 U	0.47 U	0.70 UJ S	0.35 U	0.34 U
Aldrin	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U
Alpha-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U
Beta-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U
Delta-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U
Endosulfan II	ug/kg	0.53 U	0.34 U	0.34 U	0.43 U	0.34 UJ S	1.2 U	0.26 J S, Z
4,4'-DDT	ug/kg	1.4 J S	0.68	1.1	3.3	0.89 J S	5.7	4.7
Endrin Ketone	ug/kg	0.40 U	0.34 U	0.34 U	0.34 U	0.34 UJ S	0.35 U	0.34 U
Chlordane	ug/kg	3.1 J S, Z	3.4 U	2.3 J Z	2.2 J S, Z	1.7 J S, Z	3.0 J Z	2.3 J S, Z
Chlordane (technical)	ug/kg	--	--	--	--	--	--	--
Gamma-BHC (Lindane)	ug/kg	0.13 J S, Z	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U
Dieldrin	ug/kg	0.34 U	0.34 U	0.34 U	0.82 U	0.34 UJ S	1.3 U	1.1 U
Endrin	ug/kg	0.34 U	0.34 U	0.34 U	0.34 U	0.34 UJ S	0.35 U	0.34 U
Methoxychlor	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.7 UJ S	1.7 U	1.7 U
4,4'-DDD	ug/kg	0.34 U	0.34 U	0.34 U	0.36 U	0.34 UJ S	0.35 U	1.7 U
4,4'-DDE	ug/kg	0.34 U	0.34 U	0.34 U	0.34 U	0.41 UJ S	1.4 U	0.87 J S
Endrin Aldehyde	ug/kg	0.34 U	0.34 U	0.34 U	0.63 U	0.34 UJ S	0.54 U	0.62 J S
Heptachlor	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.13 J S, Z
Endosulfan I	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-150-SA6-SS-0.0-0.5	SL-151-SA6-SS-0.0-0.5	SL-152-SA6-SS-0.0-0.5	SL-154-SA6-SS-0.0-0.5	SL-155-SA6-SS-0.0-0.5	SL-156-SA6-SS-0.0-0.5	SL-157-SA6-SS-0.0-0.5
Sample Date		07/18/2011	07/19/2011	07/18/2011	07/19/2011	07/18/2011	07/20/2011	07/20/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE202	DE203	DE202	DE203	DE202	DE204	DE204
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	2.3 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dicamba	ug/kg	1.2 U	1.2 R Q	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.1 U	9.1 U	9.0 U	9.1 U	9.0 U	9.2 U	9.1 U
Dinitrobutyl Phenol	ug/kg	2.4 R L	2.4 R Q, L	2.4 R L	2.4 R L	2.4 R L	2.5 R L	2.4 R L
MCPP	ug/kg	250 U	250 U	250 U	250 U	250 U	260 U	250 U
2,4,5-TP	ug/kg	0.17 U	0.17 U	0.15 J Z	0.17 U	0.17 U	0.17 U	0.082 J Z
2,4,5-T	ug/kg	0.17 U	0.17 U	0.17 U	0.19 U	0.20 U	0.38 U	0.17 U
MCPA	ug/kg	250 U	250 U	250 U	250 U	250 U	410	250 U
2,4-D	ug/kg	3.6 U	3.6 U	3.6 U	3.7 U	3.6 U	3.7 U	3.6 U
2,4 DB	ug/kg	8.2 U	1.7 U	4.4	4.4	9.8 U	3.4	2.5
Toxaphene	ug/kg	6.7 U	6.7 U	6.6 U	6.7 U	6.7 U	6.8 U	6.7 U
Heptachlor Epoxide	ug/kg	0.17 U	0.17 U	0.17 U	0.044 J Z	0.17 U	0.17 U	0.17 U
Endosulfan Sulfate	ug/kg	0.34 U	0.34 U	0.34 U	0.35 U	0.34 U	0.35 U	0.34 U
Mirex	ug/kg	0.42 U	0.34 U	0.34 U	0.35 U	0.34 U	0.35 U	0.34 U
Aldrin	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Alpha-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Beta-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Delta-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Endosulfan II	ug/kg	0.34 U	0.34 U	0.34 U	0.35 U	0.34 U	0.35 U	0.34 U
4,4'-DDT	ug/kg	2.1	1.2 J Q	0.35 U	1.4 U	0.44 U	0.35 U	0.25 J Z
Endrin Ketone	ug/kg	0.34 U	0.34 U	0.40 U	0.35 U	0.34 U	0.35 U	0.34 U
Chlordane	ug/kg	3.4 U	2.4 J Z	3.4 U	2.9 J Z	3.4 U	3.5 U	3.4 U
Chlordane (technical)	ug/kg	--	--	--	--	--	--	--
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Dieldrin	ug/kg	0.50 U	0.69 U	2.5	0.35 U	0.34 U	0.35 U	0.34 U
Endrin	ug/kg	0.34 U	0.34 U	0.34 U	0.35 U	0.34 U	0.35 U	0.34 U
Methoxychlor	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
4,4'-DDD	ug/kg	0.34 U	0.34 U	0.34 U	0.35 U	0.34 U	0.35 U	0.34 U
4,4'-DDE	ug/kg	0.34 U	0.34 U	0.34 U	0.43	0.34 U	0.35 U	0.34 U
Endrin Aldehyde	ug/kg	0.49 U	0.18 J Z	0.34 U	0.28 J Z	0.34 U	0.35 U	0.34 U
Heptachlor	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.091 J Z	0.17 U	0.17 U
Endosulfan I	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-159-SA6-SS-0.0-0.5	SL-160-SA6-SS-0.0-0.5	SL-162-SA6-SS-0.0-0.5	SL-164-SA6-SS-0.0-0.5	SL-165-SA6-SS-0.0-0.5	SL-166-SA6-SS-0.0-0.5	SL-167-SA6-SS-0.0-0.5
Sample Date		07/20/2011	07/20/2011	07/20/2011	07/20/2011	07/20/2011	07/19/2011	07/20/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE204	DE204	DE204	DE204	DE204	DE203	DE204
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.0 J Z	1.7 U	1.7 U
Dicamba	ug/kg	1.2 U	1.2 R Q	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.1 U	9.1 U	9.1 U	9.2 U	9.1 U	9.0 U	9.1 U
Dinitrobutyl Phenol	ug/kg	2.4 R L	2.4 R Q, L	2.4 R L	2.4 R L	2.4 R L	2.4 R L	2.4 R L
MCPP	ug/kg	250 U	740 UJ B, FD, Q	250 U	250 U	250 U	250 U	250 U
2,4,5-TP	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.43	0.17 U	0.17 U
2,4,5-T	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
MCPA	ug/kg	450 U	540	370	460	560	250 U	250 U
2,4-D	ug/kg	3.6 U	3.7 U	3.6 U	3.7 U	3.7 U	3.6 U	3.6 U
2,4 DB	ug/kg	2.1	1.8 J FD	2.4	1.2 J Z	2.2	2.2	3.0
Toxaphene	ug/kg	6.7 U	6.7 U	6.7 U	6.7 U	6.7 U	6.6 UJ S	6.7 U
Heptachlor Epoxide	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U
Endosulfan Sulfate	ug/kg	0.35 U	0.35 U	0.34 U	0.35 U	0.34 U	0.34 UJ S	0.35 U
Mirex	ug/kg	0.35 U	0.35 U	0.34 U	0.35 U	0.34 U	0.12 J S, Z	0.094 J Z
Aldrin	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U
Alpha-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U
Beta-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U
Delta-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U
Endosulfan II	ug/kg	0.35 U	0.35 U	0.34 U	0.35 U	0.34 U	0.34 UJ S	0.35 U
4,4'-DDT	ug/kg	0.35 U	0.35 UJ FD	1.6	0.35 U	0.34 U	0.34 UJ S	0.35 U
Endrin Ketone	ug/kg	0.35 U	0.35 U	0.34 U	0.35 U	0.34 U	0.34 UJ S	0.35 U
Chlordane	ug/kg	3.5 U	3.5 U	1.8 J Z	3.5 U	3.4 U	3.4 UJ S	3.5 U
Chlordane (technical)	ug/kg	--	--	--	--	--	--	--
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.17 U	0.046 J Z	0.17 U	0.17 U	0.17 UJ S	0.17 U
Dieldrin	ug/kg	0.35 U	0.35 U	0.34 U	0.35 U	0.34 U	0.34 UJ S	0.35 U
Endrin	ug/kg	0.35 U	0.35 U	0.34 U	0.35 U	0.34 U	0.34 UJ S	0.35 U
Methoxychlor	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 UJ S	1.7 U
4,4'-DDD	ug/kg	0.35 U	0.35 U	0.34 U	0.35 U	0.34 U	0.34 UJ S	0.35 U
4,4'-DDE	ug/kg	0.35 U	0.35 U	0.34 U	0.35 U	0.34 U	0.34 UJ S	0.35 U
Endrin Aldehyde	ug/kg	0.35 U	0.35 U	0.34 U	0.35 U	0.34 U	0.34 UJ S	0.35 U
Heptachlor	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U
Endosulfan I	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-168-SA6-SS-0.0-0.5	SL-169-SA6-SS-0.0-0.5	SL-171-SA6-SS-0.0-0.5	SL-172-SA6-SS-0.0-0.5	SL-174-SA6-SS-0.0-0.5	SL-176-SA6-SS-0.0-0.5	SL-178-SA6-SS-0.0-0.5
Sample Date		07/19/2011	07/19/2011	07/19/2011	07/19/2011	07/19/2011	07/18/2011	07/19/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE203	DE203	DE203	DE203	DE203	DE202	DE203
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U
Dicamba	ug/kg	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	0.77 J L, Z
2,2-Dichlor-Propionic Acid	ug/kg	9.1 U	9.1 U	9.1 U	9.7 U	9.1 U	9.1 U	9.0 U
Dinitrobutyl Phenol	ug/kg	2.4 R L	2.4 R L	2.4 R L	2.6 R L	2.4 R L	2.4 R L	2.4 R L
MCPP	ug/kg	250 U	250 U	250 U	270 U	250 U	250 U	590 UJ B, L
2,4,5-TP	ug/kg	0.17 U	0.17 U	0.17 U	0.18 U	0.17 U	0.17 U	0.17 U
2,4,5-T	ug/kg	0.26	0.17 U	0.28 U	0.18 U	0.17 U	0.17 U	1.2 U
MCPA	ug/kg	250 U	540 U	250 U	270 U	250 U	250 U	250 U
2,4-D	ug/kg	3.6 U	3.6 U	3.6 U	3.9 U	3.6 U	1.5 J Z	3.6 U
2,4 DB	ug/kg	1.7 U	1.7 U	18 U	1.8 U	2.2	1.7 U	1.7 U
Toxaphene	ug/kg	6.6 U	320 U	15 UJ S	7.2 UJ S	6.7 U	6.7 U	6.7 U
Heptachlor Epoxide	ug/kg	0.17 U	0.17 UJ S	0.17 UJ S	0.18 UJ S	0.17 U	0.17 U	0.57 U
Endosulfan Sulfate	ug/kg	0.34 U	0.34 UJ S	0.34 UJ S	0.37 UJ S	0.34 U	0.34 U	0.34 U
Mirex	ug/kg	1.1	0.60 J S	0.34 UJ S	0.37 UJ S	0.34 U	0.34 U	0.54 U
Aldrin	ug/kg	0.17 U	0.17 UJ S	0.17 UJ S	0.18 UJ S	0.17 U	0.17 U	0.17 U
Alpha-BHC	ug/kg	0.17 U	0.17 UJ S	0.17 UJ S	0.067 J S, Z	0.17 U	0.17 U	0.17 U
Beta-BHC	ug/kg	0.17 U	0.077 J S, Z	0.17 UJ S	0.18 UJ S	0.17 U	0.093 J Z	0.17 U
Delta-BHC	ug/kg	0.054 J Z	0.17 UJ S	0.17 UJ S	0.18 UJ S	0.17 U	0.17 U	0.17 U
Endosulfan II	ug/kg	0.23 J Z	2.9 UJ S	0.34 UJ S	0.37 UJ S	0.34 U	0.34 U	0.46 U
4,4'-DDT	ug/kg	70	37 U	0.34 UJ S	0.36 J S, Z	12	0.89	11
Endrin Ketone	ug/kg	0.34 U	0.34 UJ S	0.34 UJ S	0.37 UJ S	0.34 U	0.34 U	0.34 U
Chlordane	ug/kg	3.5	3.4 UJ S	3.4 UJ S	3.7 UJ S	2.6 J Z	3.4 U	6.5 J S
Chlordane (technical)	ug/kg	--	--	--	--	--	--	--
Gamma-BHC (Lindane)	ug/kg	0.13 J Z	0.17 UJ S	0.17 UJ S	0.18 UJ S	0.17 U	0.078 J Z	0.17 U
Dieldrin	ug/kg	0.76	0.34 UJ S	0.34 UJ S	0.37 UJ S	3.5 U	0.56	3.5
Endrin	ug/kg	0.47	6.9 U	0.34 UJ S	0.37 UJ S	0.34 U	0.34 U	0.63 U
Methoxychlor	ug/kg	2.3	1.7 UJ S	1.7 UJ S	1.8 UJ S	1.7 U	1.7 U	1.7 U
4,4'-DDD	ug/kg	2.4	0.34 UJ S	0.14 J S, Z	0.37 UJ S	0.34 U	0.34 U	0.34 U
4,4'-DDE	ug/kg	4.0	9.2	0.25 J S, Z	0.21 J S, Z	2.1	0.34 U	1.9 J S
Endrin Aldehyde	ug/kg	0.34 U	1.8 UJ S	0.34 UJ S	0.37 UJ S	0.34 U	0.34 U	0.96 J S
Heptachlor	ug/kg	0.17 U	0.17 UJ S	0.17 UJ S	0.18 UJ S	0.17 U	0.17 U	0.078 J S, Z
Endosulfan I	ug/kg	0.17 U	0.17 UJ S	0.17 UJ S	0.18 UJ S	0.17 U	0.17 U	0.17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-182-SA6-SS-0.0-0.5	SL-183-SA6-SS-0.0-0.5	SL-184-SA6-SS-0.0-0.5	SL-185-SA6-SS-0.0-0.5	SL-190-SA6-SS-0.0-0.5	SL-192-SA6-SS-0.0-0.5	SL-193-SA6-SS-0.0-0.5
Sample Date		07/18/2011	07/18/2011	07/18/2011	07/19/2011	07/25/2011	07/25/2011	07/25/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE202	DE202	DE202	DE203	DE208	DE208	DE208
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	0.85 J Z, *#	1.7 U
Dicamba	ug/kg	0.55 J L, Z	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.1 U	9.0 U	9.1 U	9.4 U	9.1 U	9.1 U	9.1 U
Dinitrobutyl Phenol	ug/kg	2.4 R L	2.4 R L	2.4 R L	2.5 R L	2.4 U	2.4 U	2.4 U
MCPP	ug/kg	250 U	250 U	250 U	1000 UJ B, L	250 UJ C	250 UJ C	250 UJ C
2,4,5-TP	ug/kg	0.17 U	0.17 U	0.17 U	0.18 U	0.17 U	0.17 U	0.11 J Z
2,4,5-T	ug/kg	0.17 U	0.17 U	0.17 U	0.22	0.17 U	0.17 U	0.17 U
MCPA	ug/kg	250 U	250 U	250 U	260 U	250 UJ C	540 UJ C	250 UJ C
2,4-D	ug/kg	3.6 U	3.6 U	2.1 J Z	3.8 U	3.6 U	3.6 U	3.6 U
2,4 DB	ug/kg	1.8	1.2 J Z	3.9	1.8 U	2.1 J *#	2.8 J *#	2.7
Toxaphene	ug/kg	6.6 U	6.6 U	6.7 U	6.9 UJ S	31 U	27 U	6.7 U
Heptachlor Epoxide	ug/kg	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.81 U	0.17 U	0.17 U
Endosulfan Sulfate	ug/kg	0.34 U	0.34 U	0.34 U	0.36 UJ S	0.34 U	0.34 U	0.34 U
Mirex	ug/kg	0.34 U	0.34 U	0.34 U	0.36 UJ S	0.34 UJ C	0.34 UJ C	0.34 U
Aldrin	ug/kg	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	0.17 U
Alpha-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	0.17 U
Beta-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	0.17 U
Delta-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	0.17 U
Endosulfan II	ug/kg	0.34 U	0.34 U	0.34 U	0.36 UJ S	3.9 UJ C	0.35 UJ C	0.34 UJ C
4,4'-DDT	ug/kg	1.2	0.43	3.8	0.38 J S	13 J C	0.83 J C	0.30 J Z
Endrin Ketone	ug/kg	0.34 U	0.34 U	0.34 U	0.36 UJ S	0.34 UJ C	0.55 UJ C	0.34 U
Chlordane	ug/kg	4.0	1.1 J Z	3.4 U	3.6 UJ S	10	3.4 U	3.4 U
Chlordane (technical)	ug/kg	--	--	--	--	--	--	--
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.17 U	0.20 J S	0.17 UJ S	0.11 J Z	0.17 U	0.17 U
Dieldrin	ug/kg	0.42	0.12 J Z	4.9	0.36 UJ S	3.4 U	0.34 U	0.34 U
Endrin	ug/kg	0.34 U	0.34 U	0.34 U	0.36 UJ S	1.0 U	0.34 U	0.34 U
Methoxychlor	ug/kg	1.7 U	1.7 U	1.7 U	1.7 UJ S	1.7 UJ C	1.7 UJ C	1.7 U
4,4'-DDD	ug/kg	0.34 U	0.34 U	0.34 U	0.36 UJ S	0.34 U	0.34 U	0.34 U
4,4'-DDE	ug/kg	0.47 U	0.34 U	0.54 U	0.36 UJ S	2.1 J *#	0.34 U	0.34 U
Endrin Aldehyde	ug/kg	0.34 U	0.34 U	0.45 U	0.36 UJ S	1.3 U	0.34 U	0.34 U
Heptachlor	ug/kg	0.41 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	0.17 U
Endosulfan I	ug/kg	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	0.17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-204-SA6-SS-0.0-0.5	SL-205-SA6-SS-0.0-0.5	SL-206-SA6-SS-0.0-0.5	SL-211-SA6-SS-0.0-0.5	SL-213-SA6-SS-0.0-0.5	SL-214-SA6-SS-0.0-0.5	SL-215-SA6-SS-0.0-0.5
Sample Date		07/26/2011	07/26/2011	07/26/2011	07/21/2011	07/26/2011	07/21/2011	07/20/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE209	DE209	DE209	DE205	DE209	DE205	DE204
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U
Dicamba	ug/kg	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.5	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.1 U	9.2 U	9.4 U	9.1 U	9.4 U	9.1 U	9.1 U
Dinitrobutyl Phenol	ug/kg	2.4 R L	2.5 R L	2.5 R L	2.4 R Q, L	2.5 R L	2.4 R L	12 R L
MCPP	ug/kg	250 U	260 U	260 U	250 U	260 U	1600	250 U
2,4,5-TP	ug/kg	0.17 U	0.17 U	0.18 U	0.74 J Q	0.12 J Z	0.29 U	0.75
2,4,5-T	ug/kg	0.17 U	0.17 U	0.18 U	0.17 U	0.18 U	0.34 U	0.17 U
MCPA	ug/kg	250 U	260 U	260 U	250 R Q	530 U	250 U	250 U
2,4-D	ug/kg	3.6 U	3.7 U	3.8 U	3.6 U	3.7 U	3.6 U	3.6 U
2,4 DB	ug/kg	7.1	1.7 U	0.98 J Z	8.7 U	1.8 U	6.9 U	8.6 U
Toxaphene	ug/kg	6.7 U	6.8 U	6.9 U	6.7 U	6.9 U	130 U	6.7 U
Heptachlor Epoxide	ug/kg	0.17 U	3.4 U	0.17 U	0.28 J *#	0.17 U	6.5 U	0.84 U
Endosulfan Sulfate	ug/kg	0.34 U	0.35 R Q	0.36 U	0.34 R Q	0.36 U	6.9 U	0.34 U
Mirex	ug/kg	0.39	0.98 U	0.36	0.51 U	0.36 U	6.9 U	0.34 U
Aldrin	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Alpha-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Beta-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	3.4 U	0.16 J Z
Delta-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.16 J Z, *#	0.17 U	0.66 J S	0.17 U
Endosulfan II	ug/kg	0.34 U	7.0 U	0.36 U	0.50 U	0.36 U	6.9 U	1.2 U
4,4'-DDT	ug/kg	0.34 U	28 UJ FD	0.91	5.2	0.36 U	170 J C	34
Endrin Ketone	ug/kg	0.34 U	0.35 U	0.36 U	0.34 U	0.18 J Z	6.9 U	0.34 U
Chlordane	ug/kg	3.4 U	3.5 U	1.6 J Z	3.1 J Z	3.6 U	33 J Z	3.4 U
Chlordane (technical)	ug/kg	--	--	--	--	--	--	--
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.17 U	0.17 U	0.17 UJ C	0.17 U	0.52 UJ C, *#	0.17 U
Dieldrin	ug/kg	0.34 U	14 U	0.36 U	1.6 R Q	0.36 U	26 U	0.52 U
Endrin	ug/kg	0.34 U	7.0 U	0.36 U	0.49 R Q	0.36 U	6.9 U	0.99 U
Methoxychlor	ug/kg	1.7 U	1.7 U	1.7 U	1.7 UJ C	1.7 U	34 U	1.7 U
4,4'-DDD	ug/kg	0.34 U	0.35 R Q	0.36 U	0.34 R Q	0.36 U	12 U	0.65 J Z
4,4'-DDE	ug/kg	0.34 U	7.4 U	0.36 U	1.2 J Q, *#	0.36 U	110 J *#	2.5
Endrin Aldehyde	ug/kg	0.34 U	1.6 U	0.36 U	0.77 J Q, C, *#	0.36 U	6.9 UJ C	1.5 U
Heptachlor	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.34 J S	0.17 U
Endosulfan I	ug/kg	0.17 U	0.17 R Q	0.17 U	0.17 U	0.17 U	3.4 U	0.17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-216-SA6-SS-0.0-0.5	SL-217-SA6-SS-0.0-0.5	SL-218-SA6-SS-0.0-0.5	SL-219-SA6-SS-0.0-0.5	SL-220-SA6-SS-0.0-0.5	SL-228-SA6-SS-0.0-0.5	SL-229-SA6-SS-0.0-0.5
Sample Date		07/21/2011	07/26/2011	07/20/2011	07/21/2011	07/20/2011	07/21/2011	10/06/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE205	DE209	DE204	DE205	DE204	DE206	DE263
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	1.7 R S	1.7 U	1.8 U
Dicamba	ug/kg	0.99 J Z, *#	1.3 U	1.2 U	1.6 J *#	0.64 J S, Z	1.2 R Q	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg	9.1 U	9.4 U	9.1 U	9.0 U	9.1 R S	9.2 U	9.6 R Q
Dinitrobutyl Phenol	ug/kg	2.4 R L	2.5 R L	12 R L	2.4 R L	12 R L	2.4 R Q	2.6 UJ Q
MCPP	ug/kg	2000 J *#	260 U	250 U	1500 J *#	590 UJ B, S	250 U	270 U
2,4,5-TP	ug/kg	0.17 U	0.079 J Z	0.17 U	0.32 U	0.86 U	0.17 U	0.18 U
2,4,5-T	ug/kg	0.17 U	0.18 U	0.17 U	0.17 U	0.86 U	0.17 U	0.25 U
MCPA	ug/kg	250 U	2100	1200	1800 J *#	250 R S	250 U	270 U
2,4-D	ug/kg	3.6 U	3.8 U	3.6 U	3.6 U	3.6 R S	3.7 U	3.8 U
2,4 DB	ug/kg	6.7 U	0.72 J Z	8.6 U	15	8.6 U	1.7 U	1.8 U
Toxaphene	ug/kg	6.7 U	6.9 U	6.7 U	6.7 U	33 U	6.7 U	7.0 U
Heptachlor Epoxide	ug/kg	0.37 J *#	0.17 U	0.17 U	0.17 U	0.17 R S	0.17 U	0.18 U
Endosulfan Sulfate	ug/kg	0.34 U	0.36 U	0.34 U	0.34 U	0.49 R S	0.35 U	0.36 U
Mirex	ug/kg	0.68 U	0.36 U	0.34 U	0.34 U	0.92 R S	0.47 U	0.36 U
Aldrin	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 R S	0.17 U	0.18 U
Alpha-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 R S	0.17 U	0.18 U
Beta-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 R S	0.17 U	0.18 U
Delta-BHC	ug/kg	0.25 J *#	0.17 U	0.17 U	0.17 U	0.17 R S	0.12 J Z	0.12 J Z
Endosulfan II	ug/kg	0.55 U	0.36 U	0.34 U	0.22 J S, Z, *#	0.34 R S	0.35 U	0.36 U
4,4'-DDT	ug/kg	15	0.36 U	0.73	1.8 UJ C	6.8	7.9 J FD	2.1
Endrin Ketone	ug/kg	0.34 U	0.36 U	0.34 U	0.34 U	0.34 R S	0.40 J FD, Q	0.36 U
Chlordane	ug/kg	3.4 U	3.6 U	3.4 U	3.4 U	3.4 R S	3.7	3.6 U
Chlordane (technical)	ug/kg	--	--	--	--	--	--	--
Gamma-BHC (Lindane)	ug/kg	0.23 J C	0.17 U	0.17 U	0.37 J S, C, *#	0.17 R S	0.17 U	0.18 U
Dieldrin	ug/kg	2.3 U	0.36 U	0.34 U	0.34 U	1.0 R S	0.64 U	0.36 U
Endrin	ug/kg	0.43 U	0.36 U	0.34 U	0.34 U	0.38 R S	0.35 R Q	0.36 U
Methoxychlor	ug/kg	0.38 J Z, C, *#	1.7 U	1.7 U	1.7 UJ C	5.3 R S	1.7 U	1.8 U
4,4'-DDD	ug/kg	0.34 U	0.36 U	0.34 U	0.34 U	3.7 U	0.37 R Q	0.36 U
4,4'-DDE	ug/kg	9.8 J *#	0.36 U	0.34 U	0.35 J S, *#	0.69 R S	3.9 J FD	0.95
Endrin Aldehyde	ug/kg	0.72 J C	0.36 U	0.34 U	0.39 J S, C, *#	1.1 R S	0.35 U	0.36 U
Heptachlor	ug/kg	0.078 J Z, *#	0.17 U	0.17 U	0.17 U	0.14 J S, Z	0.064 J Z	0.18 U
Endosulfan I	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 R S	0.17 U	0.18 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-230-SA6-SS-0.0-0.5	SL-232-SA6-SS-0.0-0.5	SL-233-SA6-SS-0.0-0.5	SL-234-SA6-SS-0.0-0.5	SL-235-SA6-SS-0.0-0.5	SL-236-SA6-SS-0.0-0.5	SL-237-SA6-SS-0.0-0.5
Sample Date		10/06/2011	10/06/2011	07/22/2011	10/06/2011	07/25/2011	07/25/2011	07/21/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE263	DE263	DE207	DE263	DE208	DE208	DE206
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.8 U	1.9 U	1.7 U	1.9 U	1.7 U	1.7 U	1.7 U
Dicamba	ug/kg	0.57 J Z	0.50 J Z	1.2 U	1.3 U	1.2 U	1.2 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.6 U	10 U	9.1 U	10 U	9.1 U	9.0 U	9.1 U
Dinitrobutyl Phenol	ug/kg	2.6 U	2.7 U	2.4 U	2.7 U	2.4 U	2.4 U	2.4 U
MCPP	ug/kg	280	280 U	250 U	280 U	250 UJ C	250 UJ C	250 U
2,4,5-TP	ug/kg	0.34	0.19 U	0.085 J Z	0.35	0.17 U	0.17 U	0.17 U
2,4,5-T	ug/kg	0.18 U	0.19 U	0.17 U	0.19 U	0.17 U	0.17 U	0.17 U
MCPA	ug/kg	270 U	280 U	250 U	280 U	250 UJ C	250 UJ C	250 U
2,4-D	ug/kg	1.3 J Z	1.6 J Z	3.6 U	2.2 J Z	3.6 U	3.6 U	3.7 U
2,4 DB	ug/kg	2.4 U	2.5	4.8 U	6.2	1.8 U	3.0 J *#	11 U
Toxaphene	ug/kg	11 U	7.5 UJ S	8.6 U	7.4 UJ S	6.7 U	6.7 U	6.7 U
Heptachlor Epoxide	ug/kg	0.18 U	0.19 UJ S	0.17 U	0.19 UJ S	0.17 U	0.17 U	0.63 U
Endosulfan Sulfate	ug/kg	0.36 U	0.39 UJ S	0.34 U	0.38 UJ S	0.34 U	0.34 U	0.35 U
Mirex	ug/kg	0.36 U	0.39 UJ S	0.34 U	0.38 UJ S	0.34 U	0.34 U	0.35 U
Aldrin	ug/kg	0.18 U	0.19 UJ S	0.17 U	0.19 UJ S	0.17 U	0.17 U	0.17 U
Alpha-BHC	ug/kg	0.18 U	0.19 UJ S	0.17 U	0.057 J S, Z	0.17 U	0.17 U	0.17 U
Beta-BHC	ug/kg	0.18 U	0.19 UJ S	0.17 U	0.19 UJ S	0.17 U	0.17 U	0.17 U
Delta-BHC	ug/kg	0.18 U	0.19 UJ S	0.25	0.19 UJ S	0.17 U	0.17 U	0.52 U
Endosulfan II	ug/kg	0.36 U	0.39 UJ S	0.34 U	0.38 UJ S	0.34 UJ C	0.34 UJ C	0.66 U
4,4'-DDT	ug/kg	0.36 U	0.39 UJ S	2.2	0.38 UJ S	0.21 J Z	0.22 J Z	39
Endrin Ketone	ug/kg	0.36 U	0.39 UJ S	0.34 U	0.38 UJ S	0.34 U	0.34 U	0.36
Chlordane	ug/kg	6.7	3.9 UJ S	3.4 U	3.8 UJ S	3.4 U	3.4 U	9.1
Chlordane (technical)	ug/kg	--	--	--	--	--	--	--
Gamma-BHC (Lindane)	ug/kg	0.18 U	0.19 UJ S	0.12 J Z	0.19 UJ S	0.17 U	0.17 U	0.17 U
Dieldrin	ug/kg	0.36 U	0.39 UJ S	0.34 U	0.38 UJ S	0.34 U	0.34 U	2.3 U
Endrin	ug/kg	0.36 U	0.39 UJ S	0.34 U	0.38 UJ S	0.34 U	0.34 U	0.54 U
Methoxychlor	ug/kg	1.8 U	1.9 UJ S	1.7 U	1.9 UJ S	1.7 U	1.7 U	1.7 U
4,4'-DDD	ug/kg	0.36 U	0.39 UJ S	0.34 U	0.38 UJ S	0.34 U	0.34 U	1.4 U
4,4'-DDE	ug/kg	0.64 U	0.39 UJ S	1.1	0.38 UJ S	0.13 J Z	0.14 J Z	18
Endrin Aldehyde	ug/kg	0.36 U	0.39 UJ S	0.34 U	0.096 J S, Z	0.34 U	0.34 U	0.94 U
Heptachlor	ug/kg	0.18 U	0.19 UJ S	0.17 U	0.19 UJ S	0.17 U	0.17 U	0.17 U
Endosulfan I	ug/kg	0.18 U	0.19 UJ S	0.17 U	0.19 UJ S	0.17 U	0.17 U	0.17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-238-SA6-SS-0.0-0.5	SL-240-SA6-SS-0.0-0.5	SL-241-SA6-SS-0.0-0.5	SL-242-SA6-SS-0.0-0.5	SL-243-SA6-SS-0.0-0.5	SL-244-SA6-SS-0.0-0.5	SL-245-SA6-SS-0.0-0.5
Sample Date		07/22/2011	07/21/2011	07/22/2011	07/22/2011	07/22/2011	07/22/2011	07/25/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE207	DE206	DE207	DE207	DE207	DE207	DE208
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dicamba	ug/kg	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.1 U	9.1 U	9.0 U	9.1 U	12.5 U B	9.0 U	29.9 U B
Dinitrobutyl Phenol	ug/kg	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
MCPP	ug/kg	250 U	250 U	250 U	250 U	250 U	250 U	250 UJ C
2,4,5-TP	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
2,4,5-T	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
MCPA	ug/kg	250 U	250 U	250 U	250 U	250 U	250 U	250 UJ C
2,4-D	ug/kg	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U
2,4 DB	ug/kg	3.2 U	6.1 U	1.7 U	1.7 U	1.7 U	13 U	2.1
Toxaphene	ug/kg	6.7 U	6.7 U	6.7 U	19 U	6.6 U	13 U	6.7 U
Heptachlor Epoxide	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Endosulfan Sulfate	ug/kg	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Mirex	ug/kg	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Aldrin	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Alpha-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Beta-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Delta-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Endosulfan II	ug/kg	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 UJ C
4,4'-DDT	ug/kg	0.36	0.87 J S	110	38	0.45	9.7	0.60
Endrin Ketone	ug/kg	0.34 U	0.34 U	0.25 J Z	0.34 U	0.34 U	0.34 U	0.34 U
Chlordane	ug/kg	2.1 J Z	3.3 J S, Z	5.4	12	3.4 U	5.2	3.4 U
Chlordane (technical)	ug/kg	--	--	--	--	--	--	--
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.17 U	0.084 J Z	0.096 J Z	0.17 U	0.036 J Z	0.17 U
Dieldrin	ug/kg	0.34 U	0.34 U	9.7	13	0.34 U	2.1	0.34 U
Endrin	ug/kg	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Methoxychlor	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
4,4'-DDD	ug/kg	0.34 U	0.17 J S, Z	4.3	0.40 U	0.34 U	0.34 U	0.34 U
4,4'-DDE	ug/kg	0.23 J Z	0.38 J S	11	3.9	0.34 U	9.1	0.13 J Z, *#
Endrin Aldehyde	ug/kg	0.34 U	0.16 J S, Z	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Heptachlor	ug/kg	0.17 U	0.066 J S, Z	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Endosulfan I	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-253-SA6-SS-0.0-0.5	SL-254-SA6-SS-0.0-0.5	SL-255-SA6-SS-0.0-0.5	SL-256-SA6-SS-0.0-0.5	SL-268-SA6-SS-0.0-0.5	SL-278-SA6-SS-0.0-0.5	SL-279-SA6-SS-0.0-0.5
Sample Date		07/25/2011	07/25/2011	07/25/2011	07/25/2011	07/25/2011	07/13/2011	07/13/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE208	DE208	DE208	DE208	DE208	DE199	DE199
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U
Dicamba	ug/kg	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.0 U	9.1 U	9.1 U	9.1 U	9.0 U	9.2 U	9.3 U
Dinitrobutyl Phenol	ug/kg	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.5 R L	2.5 R L
MCPP	ug/kg	250 UJ C	250 UJ C	250 UJ C	250 UJ C	250 UJ C	260 UJ B, *#	260 U
2,4,5-TP	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ L	0.18 UJ L
2,4,5-T	ug/kg	0.17 U	0.35	0.17 U	0.17 U	0.26 U	0.17 U	0.4 U B
MCPA	ug/kg	250 UJ C	250 U	300 U	250 U	410 U	110 J Z, *#	260 U
2,4-D	ug/kg	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.7 U	3.7 U
2,4 DB	ug/kg	1.1 J Z, *#	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U
Toxaphene	ug/kg	6.7 U	11 U	6.7 U	6.7 U	44 UJ S	6.8 U	6.8 U
Heptachlor Epoxide	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.49 UJ S	0.34 U	0.26 U
Endosulfan Sulfate	ug/kg	0.34 U	0.34 U	0.34 U	0.34 U	0.34 UJ S	0.35 U	0.35 U
Mirex	ug/kg	0.34 U	0.34 UJ C	0.34 U	0.34 UJ C	0.51 UJ S, C	1.8 U	0.35 U
Aldrin	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.073 J S, Z, *#	0.17 U
Alpha-BHC	ug/kg	0.17 U	0.14 J Z	0.17 U	0.17 U	0.17 UJ S	4.3 U	0.17 U
Beta-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U
Delta-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.33 U	0.17 U
Endosulfan II	ug/kg	0.34 UJ C	0.34 UJ C	0.34 UJ C	0.34 UJ C	0.79 UJ S, C	1.3 U	0.39 U
4,4'-DDT	ug/kg	0.44	1.0 J C	0.20 J Z	0.49 UJ C	2.4 J S, C, *#	6.3	2.8
Endrin Ketone	ug/kg	0.34 U	0.34 UJ C	0.34 U	0.34 UJ C	0.34 UJ S, C	0.35 U	0.35 U
Chlordane	ug/kg	6.6	3.4 U	3.4 U	5.4 J *#	10 J S	8.4 J S	3.5 U
Chlordane (technical)	ug/kg	--	--	--	--	--	--	--
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.080 J S, Z	0.17 U	0.17 U
Dieldrin	ug/kg	0.34 U	0.34 U	0.34 U	0.34 U	0.34 UJ S	1.8 U	0.35 U
Endrin	ug/kg	0.34 U	0.34 U	0.34 U	0.34 U	0.34 UJ S	0.35 U	0.35 U
Methoxychlor	ug/kg	1.7 U	1.7 UJ C	1.7 U	1.7 UJ C	1.7 UJ S, C	1.7 U	1.7 U
4,4'-DDD	ug/kg	0.34 U	0.34 U	0.34 U	0.34 U	0.34 UJ S	0.35 U	0.35 U
4,4'-DDE	ug/kg	0.23 J Z, *#	0.34 U	0.34 U	0.34 U	0.40 UJ S	0.56 U	0.36 U
Endrin Aldehyde	ug/kg	0.34 U	0.34 U	0.34 U	0.34 U	0.34 UJ S	0.74 U	0.35 U
Heptachlor	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U
Endosulfan I	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-280-SA6-SS-0.0-0.5	SL-281-SA6-SS-0.0-0.5	SL-282-SA6-SS-0.0-0.5	SL-282-SA6-SS-0.0-0.5S	SL-283-SA6-SS-0.0-0.5	SL-283-SA6-SS-0.0-0.5S	SL-284-SA6-SS-0.0-0.5
Sample Date		07/12/2011	07/12/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011
Sample Type		N	N	N	Split	N	Split	N
SDG		DE199	DE199	DE290	11L003	DE290	11L003	DE290
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.8 U	1.7 U	1.8 U	2.5 U	1.8 U	2.6 U	1.9 U
Dicamba	ug/kg	1.2 U	1.2 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg	9.3 U	9.2 U	9.5 U	9.5 U	9.6 U	36.6 U B	9.8 U
Dinitrobutyl Phenol	ug/kg	2.5 R Q, L	2.5 R L	2.5 U	1.8 U	2.6 U	1.8 U	2.6 U
MCPP	ug/kg	260 U	260 U	110 J Z	260 U	270 U	270 U	140 J FD, Z
2,4,5-TP	ug/kg	0.18 UJ L	0.17 UJ L	0.15 J Z	0.18 U	0.18 U	0.18 U	0.11 J Z
2,4,5-T	ug/kg	0.18 U B	0.17 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U
MCPA	ug/kg	320 J Q, *#	110 J Z, *#	100 J Z	260 U	110 J Z	270 U	340 UJ FD
2,4-D	ug/kg	3.7 U	3.7 U	3.8 U	3.8 U	3.8 U	3.9 U	3.9 U
2,4 DB	ug/kg	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
Toxaphene	ug/kg	34 U	340 U	7.0 U	7.0 U	7.0 UJ S	7.1 U	7.2 UJ S
Heptachlor Epoxide	ug/kg	2.3 U	14 U	0.18 U	0.18 UJ C	0.18 UJ S, Q	0.18 UJ C	0.18 UJ S
Endosulfan Sulfate	ug/kg	1.8 U	17 U	0.36 U	0.36 U	0.36 R S, Q	0.36 U	0.37 UJ S
Mirex	ug/kg	1.8 U	17 U	1.0	0.36 U	0.36 UJ S	0.36 U	0.37 UJ S
Aldrin	ug/kg	0.87 U	8.5 U	0.18 U	0.18 UJ C	0.18 R S, Q	0.18 UJ C	0.18 UJ S
Alpha-BHC	ug/kg	0.87 U	8.5 U	0.18 U	0.18 UJ C	0.18 R S, Q	0.18 UJ C	0.18 UJ S
Beta-BHC	ug/kg	0.87 U	8.5 U	0.18 U	0.18 UJ C	0.18 R S, Q	0.18 UJ C	0.18 UJ S
Delta-BHC	ug/kg	0.87 U	8.5 U	0.18 U	0.18 UJ C	0.18 R S, Q	0.18 UJ C	0.18 UJ S
Endosulfan II	ug/kg	2.1 U	17 U	0.12 J Z	0.36 U	0.36 R S, Q	0.36 U	0.37 UJ FD, S
4,4'-DDT	ug/kg	20	130 U	1.3	4.6 J *#	0.36 R S, Q	6.2 J *#	0.50 UJ FD, S
Endrin Ketone	ug/kg	1.8 U	17 U	0.36 U	0.36 U	0.36 R S, Q	0.36 U	0.37 UJ S
Chlordane	ug/kg	18 U	170 U	3.6 U	--	3.6 UJ S	--	3.7 UJ S
Chlordane (technical)	ug/kg	--	--	--	3.6 U	--	3.6 U	--
Gamma-BHC (Lindane)	ug/kg	0.87 U	8.5 U	0.18 U	0.18 UJ C	0.18 UJ S	0.18 UJ C	0.18 UJ S
Dieldrin	ug/kg	6.4 U	37 U	0.36 U	0.36 UJ C	0.36 R S, Q	0.36 UJ C	0.11 J FD, S, Z
Endrin	ug/kg	0.167UJ B, Q, E	17 U	0.36 U	0.36 UJ C	0.36 UJ S	0.36 UJ C	0.37 UJ S
Methoxychlor	ug/kg	8.7 U	85 U	1.8 U	1.8 UJ C	1.8 UJ S, Q	1.8 UJ C	1.8 UJ S
4,4'-DDD	ug/kg	1.8 U	17 U	0.36 U	0.36 UJ C	0.36 R S, Q	0.36 UJ C	0.37 UJ S
4,4'-DDE	ug/kg	9.7 U	57 U	0.27 J Z	0.36 UJ C	0.36 UJ S	0.36 UJ C	0.11 J FD, S, Z
Endrin Aldehyde	ug/kg	1.8 U	17 U	0.36 U	0.36 U	0.22 J S, Q, Z	0.36 U	0.37 UJ FD, S
Heptachlor	ug/kg	0.87 U	8.5 U	0.18 U	0.18 UJ C	0.18 R S, Q	0.18 UJ C	0.18 UJ S
Endosulfan I	ug/kg	0.87 U	8.5 U	0.18 U	0.18 U	0.18 R S, Q	0.18 U	0.18 UJ S

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-284-SA6-SS-0.0-0.5S	SL-284-SA6-SB-15.5-16.5S	SL-285-SA6-SS-0.0-0.5	SL-285-SA6-SS-0.0-0.5S	SL-286-SA6-SS-0.0-0.5	SL-289-SA6-SS-0.0-0.5	SL-290-SA6-SS-0.0-0.5
Sample Date		11/30/2011	11/30/2011	11/29/2011	11/29/2011	07/14/2011	07/11/2011	07/12/2011
Sample Type		Split	Split	N	Split	N	N	N
SDG		11L003	11L003	DE290	11L003	DE201	DE198	DE198
Start Depth		0	15.5	0	0	0	0	0
End Depth		0.5	16.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	2.6 U	2.7 U	1.8 U	2.6 U	1.7 R Q	1.7 U	1.7 U
Dicamba	ug/kg	1.3 U	1.4 U	1.3 U	1.3 U	1.2 U	1.2 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.9 U	10 U	9.6 U	9.6 U	9.1 U	9.2 U	9.1 U
Dinitrobutyl Phenol	ug/kg	1.9 U	1.9 U	2.6 U	1.8 U	2.4 R Q, L	2.4 R L	2.4 R L
MCPP	ug/kg	270 U	280 U	270 U	270 U	250 U	250 U	250 U
2,4,5-TP	ug/kg	0.19 U	0.19 U	0.18 U	0.18 U	0.17 U	0.17 U	0.17 U
2,4,5-T	ug/kg	0.19 U	0.19 U	0.18 U	0.18 U	0.17 U	0.17 U	0.17 U
MCPA	ug/kg	270 U	280 U	270 U	270 U	250 U	250 U	250 U
2,4-D	ug/kg	3.9 U	4.1 U	3.8 U	3.8 U	3.6 U	3.7 U	3.6 U
2,4 DB	ug/kg	1.9 U	1.9 U	1.8 U	1.8 U	7.1 U	1.7 U	4.2 U
Toxaphene	ug/kg	7.2 U	15 U	7.0 U	7.0 U	20 U	6.7 U	6.7 R S
Heptachlor Epoxide	ug/kg	0.19 UJ C	0.39 U	0.14 J Z	1.1 J S, C, *#	0.17 U	0.075 J Z	0.17 R S
Endosulfan Sulfate	ug/kg	0.37 U	0.77 U	0.36 U	0.36 U	0.34 U	0.35 U	0.34 R S
Mirex	ug/kg	0.37 U	0.77 U	0.36 U	2.4 J S, *#	0.34 U	0.35 U	0.34 R S
Aldrin	ug/kg	0.19 UJ C	0.39 U	0.18 U	0.18 UJ C	0.17 U	0.17 U	0.17 R S
Alpha-BHC	ug/kg	0.19 UJ C	0.39 UJ C	0.18 U	0.18 UJ C	0.17 U	0.17 U	0.17 R S
Beta-BHC	ug/kg	0.19 UJ C	0.39 U	0.18 U	0.18 UJ C	0.17 U	0.17 U	0.40 R S
Delta-BHC	ug/kg	0.19 UJ C	0.39 UJ C	0.18 U	0.18 UJ C	0.17 U	0.058 J Z	0.17 R S
Endosulfan II	ug/kg	0.37 U	0.77 U	0.36 U	0.36 U	0.34 U	0.35 U	0.11 J S, Z
4,4'-DDT	ug/kg	3.6 J *#	0.77 U	3.1 U	16 J *#	4.1	0.12 J Z	0.85 J S
Endrin Ketone	ug/kg	0.37 U	0.77 U	0.36 U	0.36 U	0.34 U	0.35 U	0.47 J S
Chlordane	ug/kg	--	--	5.4	--	3.4 U	3.5 U	1.4 J S, Z
Chlordane (technical)	ug/kg	3.7 U	7.7 U	--	3.6 U	--	--	--
Gamma-BHC (Lindane)	ug/kg	0.19 UJ C	0.39 UJ C	0.18 U	0.18 UJ C	0.17 U	0.047 J Z	0.11 J S, Z
Dieldrin	ug/kg	0.37 UJ C	0.77 U	0.36 U	4.1 J Z, *#	1.2 U	0.35 U	0.34 R S
Endrin	ug/kg	0.37 UJ C	0.77 U	0.49 U	2.2 J S, C	0.34 R Q	0.35 U	0.34 R S
Methoxychlor	ug/kg	1.9 UJ C	3.9 UJ C	1.8 U	1.8 UJ C	1.7 U	1.7 U	1.7 R S
4,4'-DDD	ug/kg	0.37 UJ C	0.77 U	0.36 U	0.36 UJ C	0.34 U	0.35 U	0.34 R S
4,4'-DDE	ug/kg	0.37 UJ C	0.77 U	0.36 U	0.36 UJ C	1.0 U	0.35 U	0.34 R S
Endrin Aldehyde	ug/kg	0.37 U	0.77 U	2.2 U	0.36 U	0.56 U	0.35 U	0.34 R S
Heptachlor	ug/kg	0.19 UJ C	0.39 U	0.18 U	0.18 UJ C	0.17 U	0.20	0.17 R S
Endosulfan I	ug/kg	0.19 U	0.39 U	0.18 U	0.18 U	0.17 U	0.17 U	0.17 R S

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-291-SA6-SS-0.0-0.5	SL-292-SA6-SS-0.0-0.5	SL-293-SA6-SS-0.0-0.5	SL-297-SA6-SS-0.0-0.5	SL-298-SA6-SS-0.0-0.5	SL-300-SA6-SS-0.0-0.5	SL-301-SA6-SS-0.0-0.5
Sample Date		07/11/2011	07/11/2011	07/18/2011	07/11/2011	07/11/2011	07/12/2011	07/19/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE198	DE197	DE202	DE197	DE197	DE199	DE203
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dicamba	ug/kg	1.2 U	1.2 U	1.2 U	1.2 R Q	0.69 J Z	1.2 U B	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.1 U	9.2 U	9.1 U	9.1 U	9.1 U	9.3 U	9.1 U
Dinitrobutyl Phenol	ug/kg	2.4 R L	2.5 R L	2.4 R L	2.4 R Q, L	2.4 R L	2.5 R L	2.4 R L
MCPP	ug/kg	590	260 U	250 U	250 U	980	260 U	250 U
2,4,5-TP	ug/kg	0.17 U	0.077 J Z	0.21	0.17 UJ FD	0.17 U	0.17 UJ L	0.17 U
2,4,5-T	ug/kg	0.33 U	0.77	0.20 U	0.62 J FD, Q	0.18 U	0.22 U B	0.17 U
MCPA	ug/kg	250 U	260 U	250 U	300 U	190 J Z	530	250 U
2,4-D	ug/kg	3.6 U	3.7 U	3.6 U	3.6 U	3.7 U	3.7 U	1.8 J Z
2,4 DB	ug/kg	7.3 U	9.6	1.7 U	18 U	1.7 U	1.7 U	8.7 U
Toxaphene	ug/kg	330 U	170 U	6.6 U	130 U	130 U	34 U	6.7 UJ S
Heptachlor Epoxide	ug/kg	12 U	4.2 U	0.17 U	18 U	5.3 U	1.6 U	0.066 J S, Z
Endosulfan Sulfate	ug/kg	17 U	8.7 U	0.34 U	34 U	6.9 U	1.7 U	0.35 UJ S
Mirex	ug/kg	17 U	8.7 U	0.97 U	34 U	1.8 J Z	1.7 U	0.60 UJ S
Aldrin	ug/kg	8.4 U	4.2 U	0.17 U	3.3 U	3.4 U	0.85 U	0.17 UJ S
Alpha-BHC	ug/kg	8.4 U	8.5 U	0.068 J Z	3.3 U	3.4 U	0.85 U	0.17 UJ S
Beta-BHC	ug/kg	8.4 U	8.5 U	0.17 U	3.3 U	3.4 U	0.85 U	0.22 J S
Delta-BHC	ug/kg	8.4 U	8.5 U	0.41	3.3 U	3.4 U	0.85 U	0.17 UJ S
Endosulfan II	ug/kg	18	8.7 U	0.34 U	34 UJ FD	6.9 U	1.9 U	0.35 UJ S
4,4'-DDT	ug/kg	21 J Z	9.4	0.46	200	51	15	0.91 J S
Endrin Ketone	ug/kg	17 U	8.7 U	0.34 U	34 U	6.9 U	1.7 U	0.35 UJ S
Chlordane	ug/kg	95 J Z	87 U	3.4 U	69 U	39 J Z	17 U	3.5 UJ S
Chlordane (technical)	ug/kg	--	--	--	--	--	--	--
Gamma-BHC (Lindane)	ug/kg	8.4 U	8.5 U	0.17 U	3.3 U	3.4 U	0.85 U	0.047 J S, Z
Dieldrin	ug/kg	26 U	2.6 J Z	0.34 U	60 J FD	16	1.7 U	0.35 UJ S
Endrin	ug/kg	17 U	8.7 U	0.34 U	34 U	6.9 U	1.7 U	0.35 UJ S
Methoxychlor	ug/kg	84 U	42 U	1.7 U	170 U	34 U	8.5 U	1.7 UJ S
4,4'-DDD	ug/kg	17 U	3.4 J Z	0.34 U	34 U	6.9 U	1.7 U	0.35 UJ S
4,4'-DDE	ug/kg	54	8.7 U	0.34 U	34 UJ FD	13	3.4 U	0.28 J S, Z
Endrin Aldehyde	ug/kg	14 J Z	8.7 U	0.34 U	34 UJ FD	5.8 J Z	1.7 U	0.42 UJ S
Heptachlor	ug/kg	8.4 U	4.2 U	0.17 U	3.3 U	3.4 U	0.85 U	0.094 J S, Z
Endosulfan I	ug/kg	8.4 U	4.2 U	0.17 U	17 U	3.4 U	0.85 U	0.17 UJ S

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-302-SA6-SS-0.0-0.5	SL-303-SA6-SS-0.0-0.5	SL-304-SA6-SS-0.0-0.5	SL-305-SA6-SS-0.0-0.5	SL-306-SA6-SS-0.0-0.5	SL-307-SA6-SS-0.0-0.5	SL-308-SA6-SS-0.0-0.5
Sample Date		07/14/2011	07/14/2011	07/14/2011	08/30/2011	08/30/2011	07/22/2011	07/22/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE201	DE201	DE201	DE235	DE235	DE207	DE207
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.8 UJ S	3.2 U	4.5	1.8 U	1.7 U	1.7 U	1.7 U
Dicamba	ug/kg	1.2 UJ S	1.2 U	0.77 J Z	1.3 U	1.2 U	1.2 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.3 UJ S	9.2 U	9.3 U	9.5 U	9.2 U	9.1 U	9.2 U
Dinitrobutyl Phenol	ug/kg	2.5 R S, L	2.5 R L	2.5 R L	2.5 U	2.5 U	2.4 U	2.5 U
MCPP	ug/kg	1500 J S	260 U	300 U	260 U	260 U	250 U	260 U
2,4,5-TP	ug/kg	0.18 UJ S	0.17 U	0.18 U	0.18 U	0.17 U	0.17 U	0.17 U
2,4,5-T	ug/kg	0.27 UJ S	0.17 U	0.18 U	0.13 J L, Z	0.12 J L, Z	0.17 U	0.17 U
MCPA	ug/kg	260 UJ S	3600 U	1400 U	450 U	260 U	250 U	260 U
2,4-D	ug/kg	5.2 UJ S	11	3.7 U	3.8 U	3.7 U	3.6 U	3.7 U
2,4 DB	ug/kg	5.8 UJ S	3.3 U	10 U	4.3 U	5.3 U	7.3 U	1.5 J Z
Toxaphene	ug/kg	30 U	52 U	34 U	61 U	6.7 R S	30 U	2.4 J Z
Heptachlor Epoxide	ug/kg	0.17 U	0.17 U	0.17 U	0.069 J S, Z	0.17 R S	0.47 U	0.17 U
Endosulfan Sulfate	ug/kg	0.35 U	0.35 U	0.35 U	0.27 J S, Q, Z	0.65 J S	0.34 U	0.35 U
Mirex	ug/kg	0.39 U	0.35 U	0.35 U	0.36 U	2.0 J S	0.34 U	0.35 U
Aldrin	ug/kg	0.17 U	0.17 U	0.17 U	0.18 U	0.17 R S	0.17 U	0.17 U
Alpha-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.18 U	0.17 R S	0.17 U	0.17 U
Beta-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.18 U	0.17 R S	0.17 U	0.17 U
Delta-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.18 U	0.17 R S	0.17 U	0.054 J Z
Endosulfan II	ug/kg	0.35 U	0.54 U	0.35 U	0.81 J S, Q	0.53 J S	3.1 U	0.35 U
4,4'-DDT	ug/kg	4.0	12	5.4	5.5 J L	10 J L	10 U	0.25 J Z
Endrin Ketone	ug/kg	0.35 U	0.35 U	0.35 U	1.4 J S, Q	1.7 U	0.34 U	0.35 U
Chlordane	ug/kg	3.3 J S, Z	4.9	3.3 J S, Z	2.4 J S, Z	1.6 J S, Z	3.3 J Z	1.4 J Z
Chlordane (technical)	ug/kg	--	--	--	--	--	--	--
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.17 U	0.17 U	0.18 U	0.17 R S	0.17 U	0.17 U
Dieldrin	ug/kg	0.35 U	0.52 U	0.35 U	0.92 J S, Q	0.58 J S	1.9 U	0.35 U
Endrin	ug/kg	0.35 U	0.35 U	0.35 U	0.36 R Q	0.074 J S, Z	0.56 U	0.35 U
Methoxychlor	ug/kg	1.7 U	1.7 U	1.7 U	1.8 U	1.7 R S	1.7 U	1.7 U
4,4'-DDD	ug/kg	0.73 U	1.7 U	0.35 U	1.8 J S, Q	0.42 J S	0.34 U	0.35 U
4,4'-DDE	ug/kg	0.39 U	0.62 U	1.2 J S, L	0.54 J S	2.5 J S	2.9	0.27 J Z
Endrin Aldehyde	ug/kg	0.65 U	0.86 U	0.52 U	0.36 U	0.35 R S	0.94 U	0.35 U
Heptachlor	ug/kg	0.17 U	0.17 U	0.17 U	0.18 U	0.17 R S	0.17 U	0.17 U
Endosulfan I	ug/kg	0.17 U	0.17 U	0.17 U	0.049 J S, Q, Z	0.17 R S	0.17 U	0.17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-309-SA6-SS-0.0-0.5	SL-310-SA6-SS-0.0-0.5	SL-311-SA6-SS-0.0-0.5	SL-314-SA6-SS-0.0-0.5	SL-315-SA6-SS-0.0-0.5	SL-316-SA6-SS-0.0-0.5	SL-317-SA6-SS-0.0-0.5
Sample Date		07/22/2011	07/20/2011	07/26/2011	07/21/2011	07/21/2011	07/21/2011	07/26/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE207	DE204	DE209	DE206	DE206	DE206	DE209
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.7 U	1.7 U	1.7 UJ S	1.7 U	1.7 U	1.7 U	1.7 U
Dicamba	ug/kg	1.2 U	1.1 J Z	1.2 UJ S	0.60 J Z	0.75 J Z	1.2 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.1 U	9.1 U	9.2 UJ S	9.0 U	9.1 U	9.0 U	9.1 U
Dinitrobutyl Phenol	ug/kg	2.4 U	2.4 R L	2.5 R S, L	2.4 U	2.4 U	2.4 U	2.4 R L
MCPP	ug/kg	250 U	820	260 UJ S	250 U B	730	250 U	250 U
2,4,5-TP	ug/kg	0.17 U	0.84	0.11 J S, Z	0.17 U	0.46	0.17 U	0.17 U
2,4,5-T	ug/kg	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	0.17 U	0.17 U
MCPA	ug/kg	250 U	250 U	390 UJ S	250 U	250 U	250 U	250 U
2,4-D	ug/kg	3.6 U	3.6 U	3.7 UJ S	3.6 U	3.6 U	3.6 U	3.6 U
2,4 DB	ug/kg	14 U	15 U	14 J S	1.7 U	2.6 U	3.5 U	2.4
Toxaphene	ug/kg	6.7 U	54 UJ S	34 U	130 U	130 U	6.7 U	6.7 U
Heptachlor Epoxide	ug/kg	0.17 U	0.17 UJ S	11 U	3.4 U	3.9 U	33 U	0.073 J Z
Endosulfan Sulfate	ug/kg	0.34 U	0.34 UJ S	1.7 U	6.9 U	2.6 J Z	0.34 U	0.34 U
Mirex	ug/kg	0.34 U	0.44 UJ S	1.7 U	6.9 U	6.9 U	0.48 U	0.34 U
Aldrin	ug/kg	0.17 U	0.17 UJ S	0.85 U	3.4 U	3.4 U	0.17 U	0.17 U
Alpha-BHC	ug/kg	0.17 U	0.17 UJ S	0.85 U	3.4 U	3.4 U	0.17 U	0.17 U
Beta-BHC	ug/kg	0.17 U	0.17 UJ S	0.85 U	3.4 U	3.4 U	0.17 U	0.66
Delta-BHC	ug/kg	0.17 U	0.17 UJ S	0.85 U	4.7	3.8	0.48 U	0.17 U
Endosulfan II	ug/kg	0.34 U	0.69 UJ S	22	6.9 U	6.9 U	1.7	0.34 U
4,4'-DDT	ug/kg	2.0	49	280	780	470	410	0.59
Endrin Ketone	ug/kg	0.093 J Z	0.34 UJ S	1.7 U	6.9 U	6.9 U	0.96	0.34 U
Chlordane	ug/kg	2.4 J Z	8.1 J S	17 U	69 U	32 J Z	11	3.4 U
Chlordane (technical)	ug/kg	--	--	--	--	--	--	--
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.17 UJ S	0.85 U	3.4 U	3.4 U	0.17 U	0.17 U
Dieldrin	ug/kg	0.34 U	6.9 U	49 U	34	51 J Z	19 J Z	0.34 U
Endrin	ug/kg	0.34 U	0.47 UJ S	1.7 U	6.9 U	6.9 U	6.9 U	0.34 U
Methoxychlor	ug/kg	1.7 U	1.7 UJ S	8.5 U	34 U	34 U	1.7 U	1.7 U
4,4'-DDD	ug/kg	0.34 U	1.7 UJ S	1.7 U	44	31	4.0 J Z	0.34 U
4,4'-DDE	ug/kg	1.8	30	50 U	1600	460	250	0.19 J Z
Endrin Aldehyde	ug/kg	0.34 U	0.80 UJ S	9.4	6.9 U	3.0 J Z	0.83	0.42 U
Heptachlor	ug/kg	0.17 U	0.17 UJ S	0.85 U	3.4 U	3.4 U	0.17 U	0.17 U
Endosulfan I	ug/kg	0.17 U	0.17 UJ S	0.85 U	3.4 U	3.4 U	0.17 U	0.17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A11
Pesticides-Validated Data
HSA-6

Sample Name		SL-318-SA6-SS-0.0-0.5	SL-319-SA6-SS-0.0-0.5	SL-321-SA6-SS-0.0-0.5	SL-322-SA6-SS-0.0-0.5
Sample Date		07/21/2011	07/26/2011	07/20/2011	07/20/2011
Sample Type		N	N	N	N
SDG		DE206	DE209	DE204	DE204
Start Depth		0	0	0	0
End Depth		0.5	0.5	0.5	0.5
Chemical Name	Unit				
Dichlorprop	ug/kg	7.2 J S	1.7 U	1.4 J Z	1.7 U
Dicamba	ug/kg	1.2 U	1.2 U	1.2 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.2 U	9.1 U	9.1 U	9.0 U
Dinitrobutyl Phenol	ug/kg	2.5 U	2.4 R L	2.4 R L	2.4 R L
MCPP	ug/kg	600 U	250 U	250 U	250 U
2,4,5-TP	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U
2,4,5-T	ug/kg	1.7 U	0.17 U	0.21 U	0.17 U
MCPA	ug/kg	260 U	250 U	250 U	720
2,4-D	ug/kg	4.8 U	3.6 U	3.7 U	3.6 U
2,4 DB	ug/kg	16 U	3.3 U	3.5	1.7 U
Toxaphene	ug/kg	6.7 U	6.7 UJ H	6.7 UJ S	6.7 UJ S
Heptachlor Epoxide	ug/kg	0.59 U	0.17 UJ H	0.17 UJ S	0.17 UJ S
Endosulfan Sulfate	ug/kg	0.45 U	0.34 UJ H	0.35 UJ S	0.34 UJ S
Mirex	ug/kg	0.35 U	0.40 UJ H	0.35 UJ S	0.34 UJ S
Aldrin	ug/kg	0.17 U	0.17 UJ H	0.17 UJ S	0.17 UJ S
Alpha-BHC	ug/kg	0.17 U	0.17 UJ H	0.17 UJ S	0.17 UJ S
Beta-BHC	ug/kg	0.17 U	0.17 UJ H	0.17 UJ S	0.17 UJ S
Delta-BHC	ug/kg	0.80	0.17 UJ H	0.17 UJ S	0.17 UJ S
Endosulfan II	ug/kg	0.48 U	0.34 UJ H	0.35 UJ S	0.34 UJ S
4,4'-DDT	ug/kg	83	7.9 J H	0.35 UJ S	0.34 UJ S
Endrin Ketone	ug/kg	0.33 J Z	0.34 UJ H	0.35 UJ S	0.34 UJ S
Chlordane	ug/kg	10	3.4 UJ H	3.5 UJ S	3.4 UJ S
Chlordane (technical)	ug/kg	--	--	--	--
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.17 UJ H	0.17 UJ S	0.17 UJ S
Dieldrin	ug/kg	6.9 U	0.34 UJ H	0.35 UJ S	0.34 UJ S
Endrin	ug/kg	0.35 U	0.34 UJ H	0.35 UJ S	0.34 UJ S
Methoxychlor	ug/kg	1.7 U	1.7 UJ H	1.7 UJ S	1.7 UJ S
4,4'-DDD	ug/kg	5.0 J Z	0.34 UJ H	0.35 UJ S	0.34 UJ S
4,4'-DDE	ug/kg	19	0.48 UJ H	0.35 UJ S	0.34 UJ S
Endrin Aldehyde	ug/kg	0.63 U	0.83 UJ H	0.35 UJ S	0.34 UJ S
Heptachlor	ug/kg	0.46	0.17 UJ H	1.2 UJ S	0.17 UJ S
Endosulfan I	ug/kg	0.17 U	0.17 UJ H	0.17 UJ S	0.17 UJ S

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-001-SA6-SB-0.0-1.0	SL-002-SA6-SB-4.0-5.0	SL-002-SA6-SB-9.0-10.0	SL-003-SA6-SB-4.0-5.0	SL-003-SA6-SB-8.5-9.5	SL-004-SA6-SS-0.0-0.5	SL-004-SA6-SB-1.5-2.5
Sample Date		09/09/2011	08/03/2011	08/03/2011	08/03/2011	08/03/2011	07/14/2011	08/03/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE240	DE215	DE215	DE215	DE215	DE201	DE215
Start Depth		0	4	9	4	8.5	0	1.5
End Depth		1	5	10	5	9.5	0.5	2.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.9 U	1.9 U	2.0 U	1.8 U	1.7 U	1.7 U
2,4-Dinitrotoluene	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
Nitrobenzene	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
1,4-Dichlorobenzene	ug/kg	170 U	190 UJ Q	190 U	200 U	180 U	170 U	170 U
1,2,4-Trichlorobenzene	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
1,3-Dichlorobenzene	ug/kg	170 U	190 UJ Q	190 U	200 U	180 U	170 U	170 U
Hexachlorobutadiene	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
1,2-Dichlorobenzene	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
4-Nitroaniline	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
4-Nitrophenol	ug/kg	520 U	560 U	560 U	590 U	550 U	510 U	520 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
2,4-Dimethylphenol	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
4-Methylphenol	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
4-Chloroaniline	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
3,5-Dimethylphenol	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
Phenol	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	190 UJ Q	190 U	200 U	180 U	170 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	570	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	7.8 J Z	20 U	7.2 J Z	7.3 J Z	6.3 J Z	9.2 J Z
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	19 U	20 U	20 U	21 U	20 U	18 U	13 J Z
Hexachlorobenzene	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.7 U	1.9 U	0.65 J Z	2.0 U	1.8 U	1.7 U	1.7 U
2,4-Dichlorophenol	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
1,2-Diphenylhydrazine	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.7 U	2.9	1.2 J Z	2.0 U	0.98 J Z	1.7 U	1.7 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	19 U	20 U	20 U	21 U	20 U	18 U	19 U
Dibenzofuran	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.7 U	0.81 J Z	1.9 U	2.0 U	1.8 U	0.94 J Z	1.7 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.7 U	0.84 J Z	1.9 U	2.0 U	1.8 U	1.7 U	1.7 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.7 U	4.9	2.3	1.2 J Z	1.9	1.7 U	1.7 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.7 U	2.3	1.5 J Z	2.0 U	1.8 U	1.7 U	1.7 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.7 U	1.5 J Z	1.9 U	2.0 U	1.8 U	1.7 U	1.7 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.9 U	2.0 U	1.8 U	1.7 U	1.7 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.7 U	1.8 J Z	1.3 J Z	0.47 J Z	1.0 J Z	0.43 J Z	1.7 U
bis(2-Chloroisopropyl) ether	ug/kg	170 U	190 U	190 U	55 U F	180 U	170 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.7 U	2.8	0.98 J Z	2.0 U	1.8 U	1.7 U	1.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-001-SA6-SB-0.0-1.0	SL-002-SA6-SB-4.0-5.0	SL-002-SA6-SB-9.0-10.0	SL-003-SA6-SB-4.0-5.0	SL-003-SA6-SB-8.5-9.5	SL-004-SA6-SS-0.0-0.5	SL-004-SA6-SB-1.5-2.5
Sample Date		09/09/2011	08/03/2011	08/03/2011	08/03/2011	08/03/2011	07/14/2011	08/03/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE240	DE215	DE215	DE215	DE215	DE201	DE215
Start Depth		0	4	9	4	8.5	0	1.5
End Depth		1	5	10	5	9.5	0.5	2.5
2,4-Dinitrophenol	ug/kg	1000 R Q	1100 U	1100 U	1200 U	1100 U	1000 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	520 U	560 U	560 U	590 U	550 U	510 U	520 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.9 U	2.0 U	1.8 U	1.7 U	1.7 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.7 U	1.9	0.89 J Z	2.0 U	1.8 U	1.7 U	1.7 U
4-Chloro-3-Methylphenol	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
Aniline	ug/kg	520 U	560 U	560 U	590 U	550 U	510 U	520 U
Benzoic Acid	ug/kg	520 R Q	560 U	560 U	590 U	550 U	510 U	520 U
Hexachloroethane	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
4-Chlorophenyl Phenylether	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
Hexachlorocyclopentadiene	ug/kg	520 U	560 U	560 U	590 U	550 U	510 U	520 U
Isophorone	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.9 U	2.0 U	1.8 U	1.7 U	1.7 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	19 U	20 U	20 U	21 U	20 U	18 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	19 U	20 U	20 U	21 U	20 U	11 J Z	19 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.7 U	1.9 U	0.80 J Z	2.0 U	1.8 U	1.7 U	1.7 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	20 U	20 U	21 U	6.6 J Z	18 U	19 U
N-Nitrosodiphenylamine	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.9 U	2.0 U	1.8 U	1.7 U	1.7 U
Carbazole	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
Pentachlorophenol	ug/kg	520 U	560 U	560 U	590 U	550 U	510 U	520 U
2,4,6-Trichlorophenol	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
2-Nitroaniline	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
2-Nitrophenol	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.9 U	2.0 U	1.8 U	1.7 U	1.7 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.9 U	2.0 U	1.8 U	1.7 U	1.7 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.9 U	2.0 U	1.8 U	1.7 U	1.7 U
2-Chloronaphthalene	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
3,3`-Dichlorobenzidine	ug/kg	350 U	380 U	370 U	390 U	370 U	340 U	350 U
Benzidine	ug/kg	3500 R Q	3800 UJ Q	3700 U	3900 U	3700 U	3400 U	3500 U
2-Methylphenol	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
2-Chlorophenol	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
2,4,5-Trichlorophenol	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
3-Nitroaniline	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
Benzyl Alcohol	ug/kg	520 U	560 U	560 U	590 U	550 U	510 U	520 U
2,6-Dinitrotoluene	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	190 U	190 U	200 U	180 U	170 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-005-SA6-SS-0.0-0.5	SL-006-SA6-SB-4.0-5.0	SL-006-SA6-SB-9.0-10.0	SL-007-SA6-SB-1.0-2.0	SL-009-SA6-SS-0.0-0.5	SL-010-SA6-SB-4.0-5.0	SL-011-SA6-SB-0.5-1.5
Sample Date		07/14/2011	08/04/2011	08/04/2011	10/04/2011	07/27/2011	08/05/2011	08/03/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE201	DE217	DE217	DE261	DE210	DE218	DE215
Start Depth		0	4	9	1	0	4	0.5
End Depth		0.5	5	10	2	0.5	5	1.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	85 U	1.8 U	1.9 U	1.7 U	8.6 U	1.9 U	1.8 U
2,4-Dinitrotoluene	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
Nitrobenzene	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
1,4-Dichlorobenzene	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
1,2,4-Trichlorobenzene	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
1,3-Dichlorobenzene	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
Hexachlorobutadiene	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
1,2-Dichlorobenzene	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
4-Nitroaniline	ug/kg	850 U	180 U	190 U	180 U	170 UJ Q	190 U	180 U
4-Nitrophenol	ug/kg	2500 U	550 U	560 U	530 U	510 U	560 U	540 U
4-Bromophenyl Phenyl Ether	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
2,4-Dimethylphenol	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
4-Methylphenol	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
4-Chloroaniline	ug/kg	850 U	180 U	190 U	180 U	170 UJ Q	190 U	180 U
3,5-Dimethylphenol	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
Phenol	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	1700 U	--	--	--	340 U	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	20 U	20 U	19 U	--	20 U	19 U
Di-N-Octyl Phthalate (8270C)	ug/kg	850 U	--	--	--	170 U	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	20 U	20 U	19 U	--	20 U	19 U
Hexachlorobenzene	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	85 U	1.8 U	0.77 J Z	1.7 U	8.6 UJ FD	1.9 U	1.8 U
2,4-Dichlorophenol	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
1,2-Diphenylhydrazine	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	85 U	1.8 U	1.9 U	1.7 U	6.1 J Z	1.9 U	1.8 U
Dimethylphthalate (8270C)	ug/kg	850 U	--	--	--	170 U	--	--
Dimethylphthalate (8270C SIM)	ug/kg	--	20 U	20 U	19 U	--	20 U	19 U
Dibenzofuran	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	280 J Z	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	--	1.8 U	1.9 U	1.7 U	3.6 J Z	1.9 U	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	85 U	1.8 U	1.9 U	1.7 U	8.6 UJ FD	1.9 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	85 U	1.8 U	1.4 J Z	1.7 U	11	1.9 U	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	85 U	1.8 U	1.9 U	1.7 U	4.6 J FD, Z	1.9 U	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	77 J Z	1.8 U	1.9 U	1.7 U	22 J FD	1.9 U	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	85 U	1.8 U	1.9 U	1.7 U	8.6 U	1.9 U	1.8 U
Chrysene (8270C)	ug/kg	170 J Z	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	--	1.8 U	0.66 J Z	1.7 U	24	1.9 U	0.36 J Z
bis(2-Chloroisopropyl) ether	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	88 J Z	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	--	1.8 U	1.9 U	1.7 U	8.6 UJ FD	1.9 U	1.8 U

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R - Result is rejected

Sample Name		SL-005-SA6-SS-0.0-0.5	SL-006-SA6-SB-4.0-5.0	SL-006-SA6-SB-9.0-10.0	SL-007-SA6-SB-1.0-2.0	SL-009-SA6-SS-0.0-0.5	SL-010-SA6-SB-4.0-5.0	SL-011-SA6-SB-0.5-1.5
Sample Date		07/14/2011	08/04/2011	08/04/2011	10/04/2011	07/27/2011	08/05/2011	08/03/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE201	DE217	DE217	DE261	DE210	DE218	DE215
Start Depth		0	4	9	1	0	4	0.5
End Depth		0.5	5	10	2	0.5	5	1.5
2,4-Dinitrophenol	ug/kg	5100 U	1100 U	1100 U	1100 U	1000 UJ Q	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	2500 U	550 U	560 U	530 U	510 U	560 U	540 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	110 J Z	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	--	1.8 U	1.9 U	1.7 U	8.6 U	1.9 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	85 U	1.8 U	1.9 U	1.7 U	6.3 J Z	1.9 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
Aniline	ug/kg	2500 U	550 U	560 U	530 U	510 R Q	560 U	540 U
Benzoic Acid	ug/kg	2500 U	550 UJ L	560 UJ L	530 U	510 U	560 U	540 U
Hexachloroethane	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
4-Chlorophenyl Phenylether	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
Hexachlorocyclopentadiene	ug/kg	2500 U	550 U	560 U	530 U	510 U	560 U	540 U
Isophorone	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	85 U	1.8 U	1.9 U	1.7 U	8.6 U	1.9 U	1.8 U
Diethylphthalate (8270C)	ug/kg	850 U	--	--	--	170 U	--	--
Diethylphthalate (8270C SIM)	ug/kg	--	20 U	20 U	19 U	--	20 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	170 UJ FD	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	2100	20 U	20 U	19 U	--	20 U	19 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	85 U	1.8 U	0.91 J Z	1.7 U	8.6 UJ FD	1.9 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	850 U	--	--	--	170 U	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	20 U	20 U	19 U	--	20 U	19 U
N-Nitrosodiphenylamine	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	85 U	1.8 U	1.9 U	1.7 U	8.6 U	1.9 U	1.8 U
Carbazole	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
Pentachlorophenol	ug/kg	2500 U	550 U	560 U	530 U	510 U	560 U	540 U
2,4,6-Trichlorophenol	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
2-Nitroaniline	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
2-Nitrophenol	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	85 U	1.8 U	1.9 U	1.7 U	8.6 U	1.9 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	85 U	1.8 U	1.9 U B	1.7 U	8.6 U	1.9 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	85 U	1.8 U	1.9 U	1.7 U	8.6 U	1.9 U	1.8 U
2-Chloronaphthalene	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
3,3`-Dichlorobenzidine	ug/kg	1700 U	370 U	380 U	350 U	340 R Q	370 U	360 U
Benzidine	ug/kg	17000 U	3700 U	3800 U	3500 U	3400 R Q	3700 U	3600 U
2-Methylphenol	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
2-Chlorophenol	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
2,4,5-Trichlorophenol	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
3-Nitroaniline	ug/kg	850 U	180 U	190 U	180 U	170 UJ Q	190 U	180 U
Benzyl Alcohol	ug/kg	2500 U	550 U	560 U	530 U	510 U	560 U	540 U
2,6-Dinitrotoluene	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	850 U	180 U	190 U	180 U	170 U	190 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-012-SA6-SS-0.0-0.5	SL-013-SA6-SS-0.0-0.5	SL-014-SA6-SB-4.0-5.0	SL-014-SA6-SB-9.0-10.0	SL-017-SA6-SS-0.0-0.5	SL-019-SA6-SB-4.0-5.0	SL-019-SA6-SB-9.0-10.0
Sample Date		07/26/2011	07/26/2011	08/04/2011	08/04/2011	07/27/2011	08/04/2011	08/04/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE209	DE209	DE217	DE217	DE210	DE217	DE217
Start Depth		0	0	4	9	0	4	9
End Depth		0.5	0.5	5	10	0.5	5	10
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	8.6 U	8.4 U	1.9 U	1.8 U	8.6 U	1.8 U	1.8 U
2,4-Dinitrotoluene	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
Nitrobenzene	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
Hexachlorobutadiene	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
4-Nitroaniline	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
4-Nitrophenol	ug/kg	520 U	510 U	560 U	550 U	520 U	550 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
4-Methylphenol	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
4-Chloroaniline	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
Phenol	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	350 U	42 J Z	--	--	23 J Z	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	32	20 U	--	10 J FD, Z	7.1 J Z
Di-N-Octyl Phthalate (8270C)	ug/kg	170 U	170 U	--	--	124.0 U F, Z	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	--	20 U	20 U	--	20 U	20 U
Hexachlorobenzene	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	8.6 U	8.4 U	14	1.8 U	7.1 J Z	1.8 J FD	1.8 U
2,4-Dichlorophenol	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
Pyrene (8270C)	ug/kg	--	18 J Z	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	8.6 U	--	68	1.8 U	25	2.2 J FD	1.8 U
Dimethylphthalate (8270C)	ug/kg	170 U	170 U	--	--	170 U	--	--
Dimethylphthalate (8270C SIM)	ug/kg	--	--	20 U	20 U	--	20 U	20 U
Dibenzofuran	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	23 J Z	--	--	38 J Z	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	5.1 J Z	--	12	1.8 U	--	3.9 J FD	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	19 J Z	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	8.6 U	8.4 U	10	1.8 U	--	1.9 J FD	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	9.7	6.0 J Z	41	1.8 U	61	9.4 J FD	0.84 J Z
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	8.6 U	6.8 J Z	110	1.8 U	28	2.1 J FD	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	8.6 U	8.4 U	19	1.8 U	21	1.8 J FD	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	8.6 U	8.4 U	6.0	1.8 U	3.2 J Z	1.8 U	1.8 U
Chrysene (8270C)	ug/kg	20 J Z	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	--	5.0 J Z	27	1.8 U	36	6.0 J FD	0.41 J Z
bis(2-Chloroisopropyl) ether	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	4.6 J Z	8.4 U	28	1.8 U	34	3.5 J FD	1.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-012-SA6-SS-0.0-0.5	SL-013-SA6-SS-0.0-0.5	SL-014-SA6-SB-4.0-5.0	SL-014-SA6-SB-9.0-10.0	SL-017-SA6-SS-0.0-0.5	SL-019-SA6-SB-4.0-5.0	SL-019-SA6-SB-9.0-10.0
Sample Date		07/26/2011	07/26/2011	08/04/2011	08/04/2011	07/27/2011	08/04/2011	08/04/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE209	DE209	DE217	DE217	DE210	DE217	DE217
Start Depth		0	0	4	9	0	4	9
End Depth		0.5	0.5	5	10	0.5	5	10
2,4-Dinitrophenol	ug/kg	1000 U	1000 U	1100 U	1100 U	1000 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	520 U	510 U	560 U	550 U	520 U	550 U	550 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	8.6 U	8.4 U	2.9	1.8 U	6.2 J Z	2.1 J FD	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	8.6 U	8.4 U	36	1.8 U	30	2.5 J FD	1.8 U
4-Chloro-3-Methylphenol	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
Aniline	ug/kg	520 U	510 U	560 U	550 U	520 U	550 U	550 U
Benzoic Acid	ug/kg	520 U	510 U	560 UJ L	550 UJ L	520 U	550 UJ L	550 UJ L
Hexachloroethane	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	520 U	510 U	560 U	550 U	520 U	550 U	550 U
Isophorone	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	8.6 U	8.4 U	1.6 J Z	1.8 U	8.6 U	1.8 U	1.8 U
Diethylphthalate (8270C)	ug/kg	170 U	170 U	--	--	170 U	--	--
Diethylphthalate (8270C SIM)	ug/kg	--	--	20 U	20 U	--	20 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	170 U	170 U	--	--	170 U	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	--	20 U	20 U	--	20 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	8.6 U	8.4 U	74	1.8 U	4.5 J Z	1.7 J FD, Z	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	170 U	170 U	--	--	170 U	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	--	15 J Z	20 U	--	20 U	140
N-Nitrosodiphenylamine	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	8.6 U	8.4 U	6.9	1.8 U	8.6 U	0.80 J FD, Z	1.8 U
Carbazole	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
Pentachlorophenol	ug/kg	520 U	510 U	560 U	550 U	520 U	550 U	550 U
2,4,6-Trichlorophenol	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
2-Nitroaniline	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
2-Nitrophenol	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	8.6 U	8.4 U	1.9 U	1.8 U	8.6 U	1.8 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	8.6 U	8.4 U	1.9 U B	1.8 U	8.6 U	1.8 UJ B, FD	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	8.6 U	8.4 U	1.9 U	1.8 U	8.6 U	1.8 U	1.8 U
2-Chloronaphthalene	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	350 U	340 U	370 U	370 U	340 U	370 U	370 U
Benzidine	ug/kg	3500 U	3400 U	3700 U	3700 U	3400 U	3700 UJ Q	3700 U
2-Methylphenol	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
2-Chlorophenol	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
3-Nitroaniline	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
Benzyl Alcohol	ug/kg	520 U	510 U	560 U	550 U	520 U	550 U	550 U
2,6-Dinitrotoluene	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	170 U	190 U	180 U	170 U	180 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-020-SA6-SS-0.0-0.5	SL-022-SA6-SB-0.0-1.0	SL-023-SA6-SB-0.0-1.0	SL-024-SA6-SB-4.0-5.0	SL-024-SA6-SB-9.0-10.0	SL-025-SA6-SB-4.0-5.0	SL-025-SA6-SB-9.0-10.0
Sample Date		07/14/2011	08/05/2011	08/05/2011	08/04/2011	08/04/2011	08/04/2011	08/04/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE201	DE218	DE218	DE217	DE217	DE217	DE217
Start Depth		0	0	0	4	9	4	9
End Depth		0.5	1	1	5	10	5	10
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	8.6 U	8.8 U	8.7 U	1.8 U	1.8 U	1.8 U	1.8 U
2,4-Dinitrotoluene	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
Nitrobenzene	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
Hexachlorobutadiene	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
4-Nitroaniline	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
4-Nitrophenol	ug/kg	520 U	530 U	520 U	540 U	550 U	540 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
4-Methylphenol	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
4-Chloroaniline	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
Phenol	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	20 J Z	350 U	18 J Z	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	--	19 U	20 U	6.8 J Z	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	170 U	180 U	170 U	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	--	--	19 U	20 U	19 U	20 U
Hexachlorobenzene	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	5.7 J Z	8.8 U	8.7 U	1.8 U	1.8 U	1.8 U	1.8 U
2,4-Dichlorophenol	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
Pyrene (8270C)	ug/kg	88 J Z	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	--	4.2 J Z	3.9 J Z	1.8 U	1.8 U	1.8	1.8 U
Dimethylphthalate (8270C)	ug/kg	170 U	180 U	170 U	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	--	--	--	19 U	20 U	19 U	20 U
Dibenzofuran	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	38 J Z	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	--	8.8 U	8.7 U	1.8 U	1.8 U	1.8 U	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	29 J Z	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	--	8.8 U	8.7 U	1.8 U	1.8 U	1.8 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	85 J Z	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	--	9.6	11	1.8 U	1.8 U	1.4 J Z	1.8 U
Fluoranthene (8270C)	ug/kg	98 J Z	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	--	8.8 U	8.7 U	1.8 U	1.8 U	1.9	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	33 J Z	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	--	8.8 U	8.7 U	1.8 U	1.8 U	1.8 U	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	8.6 U	8.8 U	8.7 U	1.8 U	1.8 U	1.8 U	1.8 U
Chrysene (8270C)	ug/kg	110 J Z	--	32 J Z	--	--	--	--
Chrysene (8270C SIM)	ug/kg	--	11	--	1.8 U	1.8 U	1.0 J Z	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	39 J Z	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	--	8.8 U	8.7 U	1.8 U	1.8 U	0.79 J Z	1.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-020-SA6-SS-0.0-0.5	SL-022-SA6-SB-0.0-1.0	SL-023-SA6-SB-0.0-1.0	SL-024-SA6-SB-4.0-5.0	SL-024-SA6-SB-9.0-10.0	SL-025-SA6-SB-4.0-5.0	SL-025-SA6-SB-9.0-10.0
Sample Date		07/14/2011	08/05/2011	08/05/2011	08/04/2011	08/04/2011	08/04/2011	08/04/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE201	DE218	DE218	DE217	DE217	DE217	DE217
Start Depth		0	0	0	4	9	4	9
End Depth		0.5	1	1	5	10	5	10
2,4-Dinitrophenol	ug/kg	1000 U	1100 U	1000 U	1100 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	520 U	530 U	520 U	540 U	550 U	540 U	550 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	8.6 U	8.8 U	8.7 U	1.8 U	1.8 U	1.8 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	51 J Z	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	--	8.8 U	8.7 U	1.8 U	1.8 U	1.0 J Z	1.8 U
4-Chloro-3-Methylphenol	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
Aniline	ug/kg	520 U	530 U	520 U	540 U	550 U	540 U	550 U
Benzoic Acid	ug/kg	520 U	530 U	520 U	540 UJ L	550 UJ L	540 UJ L	550 UJ L
Hexachloroethane	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	520 U	530 U	520 U	540 U	550 U	540 U	550 U
Isophorone	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	8.6 U	8.8 U	8.7 U	1.8 U	1.8 U	1.8 U	1.8 U
Diethylphthalate (8270C)	ug/kg	170 U	180 U	170 U	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	--	--	--	19 U	20 U	19 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	170 U	180 U	170 U	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	--	--	19 U	20 U	19 U	20 U
Phenanthrene (8270C)	ug/kg	46 J Z	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	--	8.8 U	8.7 U	1.8 U	1.8 U	1.8 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	170 U	180 U	170 U	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	--	--	19 U	20 U	19 U	20 U
N-Nitrosodiphenylamine	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	8.6 U	8.8 U	8.7 U	1.8 U	1.8 U	1.8 U	1.8 U
Carbazole	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
Pentachlorophenol	ug/kg	520 U	530 U	520 U	540 U	550 U	540 U	550 U
2,4,6-Trichlorophenol	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
2-Nitroaniline	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
2-Nitrophenol	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	8.6 U	8.8 U	8.7 U	1.8 U	1.8 U	1.8 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	3.5 J Z	8.8 U	8.7 U	1.8 U B	1.8 U	1.8 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	8.6 U	8.8 U	8.7 U	1.8 U	1.8 U	1.8 U	1.8 U
2-Chloronaphthalene	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	340 U	350 U	350 U	360 U	370 U	360 U	370 U
Benzidine	ug/kg	3400 U	3500 U	3500 U	3600 U	3700 U	3600 U	3700 U
2-Methylphenol	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
2-Chlorophenol	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
3-Nitroaniline	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
Benzyl Alcohol	ug/kg	520 U	530 U	520 U	540 U	550 U	540 U	550 U
2,6-Dinitrotoluene	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-028-SA6-SS-0.0-0.5	SL-029-SA6-SS-0.0-0.5	SL-030-SA6-SS-0.0-0.5	SL-030-SA6-SB-4.0-5.0	SL-030-SA6-SB-9.0-10.0	SL-031-SA6-SB-4.0-5.0	SL-031-SA6-SB-9.0-10.0
Sample Date		07/27/2011	07/14/2011	07/13/2011	08/23/2011	08/23/2011	08/08/2011	08/08/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE210	DE201	DE199	DE230	DE230	DE219	DE219
Start Depth		0	0	0	4	9	4	9
End Depth		0.5	0.5	0.5	5	10	5	10
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	343 U	365 U	39.1 U	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.7 U	8.6 U	1.8 U	9.8 U	1.8 U	1.8 U
2,4-Dinitrotoluene	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
Nitrobenzene	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
Hexachlorobutadiene	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
4-Nitroaniline	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
4-Nitrophenol	ug/kg	510 U	510 U	510 U	550 U	590 U	540 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
4-Methylphenol	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
4-Chloroaniline	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
Phenol	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	170 U	170 U	180 U	200 U	180 UJ L	180 UJ L
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	27 J Z	--	--	100 J Z	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	8.1 J Z	--	93 U B	83	--	11 J Z	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	110.0 U F, Z	--	--	--	200 U	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	18 U	18 U	32 J Z	20 U	--	19 U	20 U
Hexachlorobenzene	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	7.5	1.7 U	2.5 J Z	0.87 J Z	9.8 U	0.38 J Z	1.8 U
2,4-Dichlorophenol	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
Pyrene (8270C)	ug/kg	--	21 J Z	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	6.2	--	29	14	9.8 U	4.6	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	--	170 U	--	200 U	--	--
Dimethylphthalate (8270C SIM)	ug/kg	8.4 J Z	18 U	--	20 U	--	19 U	20 U
Dibenzofuran	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	5.1	1.7 U	23 J C	7.6	9.8 U	1.6 J Z	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	5.8	1.7 U	18 J C	5.0	9.8 U	1.2 J Z	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	18 J Z	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	5.1	--	45	27	5.4 J Z	6.6	1.8 U
Fluoranthene (8270C)	ug/kg	--	23 J Z	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	7.6	--	38	15	9.8 U	5.1	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	5.0	1.7 U	18 J C	8.6	9.8 U	2.0	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	0.62 J Z	1.7 U	8.6 U	1.8 U	9.8 U	1.8 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	6.5	1.7 U	29	13	3.2 J Z	3.7	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	4.9	1.7 U	27 J C	13	9.8 U	2.8	1.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-028-SA6-SS-0.0-0.5	SL-029-SA6-SS-0.0-0.5	SL-030-SA6-SS-0.0-0.5	SL-030-SA6-SB-4.0-5.0	SL-030-SA6-SB-9.0-10.0	SL-031-SA6-SB-4.0-5.0	SL-031-SA6-SB-9.0-10.0
Sample Date		07/27/2011	07/14/2011	07/13/2011	08/23/2011	08/23/2011	08/08/2011	08/08/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE210	DE201	DE199	DE230	DE230	DE219	DE219
Start Depth		0	0	0	4	9	4	9
End Depth		0.5	0.5	0.5	5	10	5	10
2,4-Dinitrophenol	ug/kg	1000 U	1000 U	1000 UJ L	1100 U	1200 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	510 U	510 U	510 UJ L	550 UJ L	590 UJ L	540 UJ L	550 UJ L
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	5.8	1.7 U	5.8 J Z, C	2.5	9.8 U	1.8 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	6.4	1.7 U	21	5.8	9.8 U	2.5	1.8 U
4-Chloro-3-Methylphenol	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
Aniline	ug/kg	510 U	510 U	510 U	550 U	590 U	540 U	550 U
Benzoic Acid	ug/kg	510 U	510 U	510 UJ L	550 U	590 U	540 UJ L	550 UJ L
Hexachloroethane	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	510 U	510 U	510 U	550 U	590 U	540 U	550 U
Isophorone	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	1.7 U	8.6 U	1.8 U	9.8 U	1.8 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	170 U	--	200 U	--	--
Diethylphthalate (8270C SIM)	ug/kg	7.7 J Z	18 U	--	20 U	--	19 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	200 U	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	9.7 J Z	18 U	93 U B	32	--	19 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	7.2	1.7 U	15	4.8	9.8 U	2.1	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	98 J Z	--	200 U	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	7.5 J Z	6.1 J Z	--	20 U	--	19 U	20 U
N-Nitrosodiphenylamine	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	3.4	1.7 U	8.6 U	1.8 U	9.8 U	1.8 U	1.8 U
Carbazole	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
Pentachlorophenol	ug/kg	510 U	510 U	510 U	550 U	590 U	540 U	550 U
2,4,6-Trichlorophenol	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
2-Nitroaniline	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
2-Nitrophenol	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	8.6 U	1.8 U	9.8 U	1.8 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	0.76 J Z	1.7 U	8.6 U	1.1 J Z	9.8 U	1.8 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	8.6 U	1.8 U	9.8 U	1.8 U	1.8 U
2-Chloronaphthalene	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	340 U	340 U	340 U	360 U	390 U	360 U	370 U
Benzidine	ug/kg	3400 U	3400 U	3400 UJ C	3600 U	3900 U	3600 U	3700 U
2-Methylphenol	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
2-Chlorophenol	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
3-Nitroaniline	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
Benzyl Alcohol	ug/kg	510 U	510 U	510 U	550 U	590 U	540 U	550 U
2,6-Dinitrotoluene	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	170 U	170 U	180 U	200 U	180 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-033-SA6-SB-2.5-3.5	SL-035-SA6-SS-0.0-0.5	SL-035-SA6-SB-2.5-3.5	SL-037-SA6-SS-0.0-0.5	SL-037-SA6-SB-4.0-5.0	SL-037-SA6-SB-9.0-10.0	SL-038-SA6-SB-0.5-1.5
Sample Date		08/11/2011	07/13/2011	08/23/2011	07/14/2011	10/04/2011	10/04/2011	08/12/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE222	DE199	DE230	DE200	DE261	DE261	DE223
Start Depth		2.5	0	2.5	0	4	9	0.5
End Depth		3.5	0.5	3.5	0.5	5	10	1.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	338 U	34.5 U	34.0 UJ H	347 U	37.9 U	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	8.5 U	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U
2,4-Dinitrotoluene	ug/kg	170 U	180	170 U	170 U	170 U	190 U	170 U
Nitrobenzene	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
1,4-Dichlorobenzene	ug/kg	170 U	170 U	170 U	170 UJ L	170 U	190 U	170 U
1,2,4-Trichlorobenzene	ug/kg	170 U	170 U	170 U	170 UJ L	170 U	190 U	170 U
1,3-Dichlorobenzene	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
Hexachlorobutadiene	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
1,2-Dichlorobenzene	ug/kg	170 U	170 U	170 U	170 UJ L	170 U	190 U	170 U
4-Nitroaniline	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
4-Nitrophenol	ug/kg	520 U	510 U	520 U	510 U	520 U	560 U	520 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
2,4-Dimethylphenol	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
4-Methylphenol	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
4-Chloroaniline	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
3,5-Dimethylphenol	ug/kg	170 U	170 U	170 U	170 UJ L	170 U	190 U	170 U
Phenol	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	21 J Z	--	--	17 J Z	19 J Z	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	91 U B	19 U	--	--	20 U	19 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	18 U	35 J Z	19 U	8.2 J Z	19 U	20 U	19 U
Hexachlorobenzene	ug/kg	170 U	170 U	170 U	170 UJ L	170 U	190 U	170 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.7 U	2.6 J Z	1.7 U	1.7 U	1.7 U	1.9 U	0.73 J Z
2,4-Dichlorophenol	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
1,2-Diphenylhydrazine	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	0.85 J Z	11	1.1 J Z	1.3 J Z	1.7 U	1.9 U	1.7 U
Dimethylphthalate (8270C)	ug/kg	--	170 U	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	18 U	--	19 U	18 U	19 U	20 U	19 U
Dibenzofuran	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	32 J Z	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.7 U	--	0.95 J Z	0.99 J Z	1.7 U	1.9 U	1.7 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.7 U	9.4 J C	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	46 J Z	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	2.0	--	1.7	1.6 J Z	1.7 U	1.9 U	1.2 J Z
Fluoranthene (8270C)	ug/kg	--	25 J Z	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.2 J Z	--	1.1 J Z	1.7	1.7 U	1.9 U	0.92 J Z
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.7 U	8.5 UJ C	1.5 J Z	12	1.8	1.9 U	1.7 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.7 U	8.5 U	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U
Chrysene (8270C)	ug/kg	--	79 J Z	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	0.87 J Z	--	1.2 J Z	1.5 J Z	0.41 J Z	1.9 U	0.56 J Z
bis(2-Chloroisopropyl) ether	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	--	35 J Z	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.7 U	--	1.3 J Z	0.85 J Z	1.7 U	1.9 U	1.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-033-SA6-SB-2.5-3.5	SL-035-SA6-SS-0.0-0.5	SL-035-SA6-SB-2.5-3.5	SL-037-SA6-SS-0.0-0.5	SL-037-SA6-SB-4.0-5.0	SL-037-SA6-SB-9.0-10.0	SL-038-SA6-SB-0.5-1.5
Sample Date		08/11/2011	07/13/2011	08/23/2011	07/14/2011	10/04/2011	10/04/2011	08/12/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE222	DE199	DE230	DE200	DE261	DE261	DE223
Start Depth		2.5	0	2.5	0	4	9	0.5
End Depth		3.5	0.5	3.5	0.5	5	10	1.5
2,4-Dinitrophenol	ug/kg	1000 U	1000 UJ L	1000 U	1000 U	1000 U	1100 U	1000 UJ L
4,6-Dinitro-2-Methylphenol	ug/kg	520 U	510 UJ L	520 UJ L	510 U	520 U	560 U	520 UJ L
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.7 U	7.8 J Z, C	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.7 U	8.5 U	1.3 J Z	1.7 U	1.7 U	1.9 U	1.7 U
4-Chloro-3-Methylphenol	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
Aniline	ug/kg	520 U	510 U	520 U	510 U	520 U	560 U	520 U
Benzoic Acid	ug/kg	520 U	510 UJ L	520 U	510 U	520 U	560 U	520 UJ L
Hexachloroethane	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
4-Chlorophenyl Phenylether	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
Hexachlorocyclopentadiene	ug/kg	520 U	510 U	520 U	510 U	520 U	560 U	520 U
Isophorone	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	8.5 U	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U
Diethylphthalate (8270C)	ug/kg	--	170 U	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	18 U	--	19 U	18 U	19 U	20 U	7.4 J Z
Di-n-Butylphthalate (8270C)	ug/kg	--	94 J Z	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	18 U	--	19 U	18 U	19 U	20 U	19 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	0.99 J Z	5.8 J Z	1.7 U	1.5 J Z	1.7 U	1.9 U	0.93 J Z
Butylbenzylphthalate (8270C)	ug/kg	--	170 U	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	18 U	--	19 U	9.2 J Z	19 U	20 U	19 U
N-Nitrosodiphenylamine	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.7 U	8.5 U	1.7 U	2.7	1.7 U	1.9 U	1.7 U
Carbazole	ug/kg	170 U	170 U	170 U	170 UJ L	170 U	190 U	170 U
Pentachlorophenol	ug/kg	520 U	510 U	520 U	510 U	520 U	560 U	520 UJ L
2,4,6-Trichlorophenol	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
2-Nitroaniline	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
2-Nitrophenol	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	8.5 U	1.7 U	0.98 J Z	1.7 U	1.9 U	1.7 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.7 U	8.5 U	1.7 U	1.8	0.77 J Z	1.9 U	1.7 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	8.5 U	1.7 U	0.84 J Z	1.7 U	1.9 U	1.7 U
2-Chloronaphthalene	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
3,3`-Dichlorobenzidine	ug/kg	350 U	340 U	340 U	340 U	340 U	380 U	350 U
Benzidine	ug/kg	3500 U	3400 UJ C	3400 U	3400 U	3400 U	3800 U	3500 U
2-Methylphenol	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
2-Chlorophenol	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
2,4,5-Trichlorophenol	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
3-Nitroaniline	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
Benzyl Alcohol	ug/kg	520 U	510 U	520 U	510 U	520 U	560 U	520 U
2,6-Dinitrotoluene	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	170 U	170 U	170 U	170 U	190 U	170 U

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J - Result is an estimated value
R - Result is rejected

Sample Name		SL-040-SA6-SS-0.0-0.5	SL-040-SA6-SB-4.0-5.0	SL-041-SA6-SB-3.0-4.0	SL-042-SA6-SB-2.5-3.5	SL-043-SA6-SS-0.0-0.5	SL-044-SA6-SS-0.0-0.5	SL-044-SA6-SB-2.5-3.5
Sample Date		07/13/2011	08/23/2011	08/25/2011	08/09/2011	07/14/2011	07/14/2011	08/09/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE199	DE230	DE232	DE220	DE201	DE201	DE220
Start Depth		0	4	3	2.5	0	0	2.5
End Depth		0.5	5	4	3.5	0.5	0.5	3.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	33.8 U	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	8.7 U	1.7 U	1.8 U	1.7 U	1.7 U	2.0 U
2,4-Dinitrotoluene	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
Nitrobenzene	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
1,4-Dichlorobenzene	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
1,2,4-Trichlorobenzene	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
1,3-Dichlorobenzene	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
Hexachlorobutadiene	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
1,2-Dichlorobenzene	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
4-Nitroaniline	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
4-Nitrophenol	ug/kg	520 U	520 U	510 U	540 U	520 U	510 U	590 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
2,4-Dimethylphenol	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
4-Methylphenol	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
4-Chloroaniline	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
3,5-Dimethylphenol	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
Phenol	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	170 U	170 U	180 UJ L	170 U	170 U	200 UJ L
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	68 J Z	350 U	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	30	19 U	19 U	230	21 U
Di-N-Octyl Phthalate (8270C)	ug/kg	140 J Z	170 U	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	--	18 U	19 U	19 U	18 U	21 U
Hexachlorobenzene	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.7 U	8.7 U	1.7 U	1.8 U	1.7 U	1.7 U	2.0 U
2,4-Dichlorophenol	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
1,2-Diphenylhydrazine	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.7 U	4.2 J Z	1.4 J Z	1.8 U	1.7 U	1.7 U	2.0 U
Dimethylphthalate (8270C)	ug/kg	--	170 U	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	19 U	--	18 U	19 U	19 U	18 U	21 U
Dibenzofuran	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	5.0 J C	4.8 J Z	1.7 U	1.8 U	1.7 U	1.7 U	2.0 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.1 J Z, C	8.7 U	1.7 U	1.8 U	1.7 U	1.7 U	2.0 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.4 J Z	11	1.4 J Z	1.8 U	1.7 U	1.7 U	2.0 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.7 U	8.7 U	2.0	1.8 U	1.7 U	1.7 U	2.0 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.7 UJ C	8.7 U	0.80 J Z	1.8 U	1.7 U	1.7 U	2.0 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.7 U	8.7 U	1.7 U	1.8 U	1.7 U	1.7 U	2.0 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	0.80 J Z	11	1.0 J Z	0.69 J Z	1.7 U	2.2	2.0 U
bis(2-Chloroisopropyl) ether	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.7 UJ C	8.7 U	1.7 U	1.8 U	1.7 U	1.7 U	2.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A12
Semivolatiles-Validated Data
HSA-6

Sample Name		SL-040-SA6-SS-0.0-0.5	SL-040-SA6-SB-4.0-5.0	SL-041-SA6-SB-3.0-4.0	SL-042-SA6-SB-2.5-3.5	SL-043-SA6-SS-0.0-0.5	SL-044-SA6-SS-0.0-0.5	SL-044-SA6-SB-2.5-3.5
Sample Date		07/13/2011	08/23/2011	08/25/2011	08/09/2011	07/14/2011	07/14/2011	08/09/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE199	DE230	DE232	DE220	DE201	DE201	DE220
Start Depth		0	4	3	2.5	0	0	2.5
End Depth		0.5	5	4	3.5	0.5	0.5	3.5
2,4-Dinitrophenol	ug/kg	1000 UJ L	1000 U	1000 U	1100 U	1000 U	1000 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	520 UJ L	520 UJ L	510 U	540 UJ L	520 U	510 U	590 UJ L
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.6 J Z, C	8.7 U	1.7 U	1.8 U	1.7 U	1.7 U	2.0 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.7 U	8.7 U	1.7 U	1.8 U	1.7 U	1.7 U	2.0 U
4-Chloro-3-Methylphenol	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
Aniline	ug/kg	520 U	520 U	510 U	540 U	520 U	510 U	590 U
Benzoic Acid	ug/kg	520 UJ L	520 U	510 U	540 UJ L	520 U	510 U	590 UJ L
Hexachloroethane	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
4-Chlorophenyl Phenylether	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
Hexachlorocyclopentadiene	ug/kg	520 U	520 U	510 U	540 U	520 U	510 U	590 U
Isophorone	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	8.7 U	1.7 U	1.8 U	1.7 U	1.7 U	2.0 U
Diethylphthalate (8270C)	ug/kg	--	170 U	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	19 U	--	18 U	19 U	19 U	18 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	170 U	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	19 U B	--	18 U	19 U	19 U	6.2 J Z	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.7 U	8.7 U	1.1 J Z	1.8 U	1.7 U	1.7 U	2.0 U
Butylbenzylphthalate (8270C)	ug/kg	--	170 U	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	--	18 U	19 U	19 U	18 U	21 U
N-Nitrosodiphenylamine	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.7 U	8.7 U	1.7 U	1.8 U	1.7 U	1.7 U	2.0 U
Carbazole	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
Pentachlorophenol	ug/kg	520 U	520 U	510 U	540 U	520 U	510 U	590 U
2,4,6-Trichlorophenol	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
2-Nitroaniline	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
2-Nitrophenol	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	8.7 U	1.7 U	1.8 U	1.7 U	1.7 U	2.0 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.7 U	8.7 U	1.7 U	1.8 U	1.7 U	2.6	2.0 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	8.7 U	1.7 U	1.8 U	1.7 U	1.7 U	2.0 U
2-Chloronaphthalene	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
3,3`-Dichlorobenzidine	ug/kg	350 U	350 U	340 U	360 U	350 U	340 U	400 U
Benzidine	ug/kg	3500 UJ C	3500 U	3400 U	3600 U	3500 U	3400 U	4000 U
2-Methylphenol	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
2-Chlorophenol	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
2,4,5-Trichlorophenol	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
3-Nitroaniline	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
Benzyl Alcohol	ug/kg	520 U	520 U	510 U	540 U	520 U	510 U	590 U
2,6-Dinitrotoluene	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	170 U	170 U	180 U	170 U	170 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-046-SA6-SS-0.0-0.5	SL-047-SA6-SS-0.0-0.5	SL-048-SA6-SS-0.0-0.5	SL-049-SA6-SS-0.0-0.5	SL-049-SA6-SB-2.5-3.5	SL-050-SA6-SS-0.0-0.5	SL-050-SA6-SB-1.0-2.0
Sample Date		07/13/2011	07/13/2011	07/14/2011	07/14/2011	08/09/2011	07/14/2011	09/12/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE199	DE199	DE200	DE200	DE220	DE200	DE241
Start Depth		0	0	0	0	2.5	0	1
End Depth		0.5	0.5	0.5	0.5	3.5	0.5	2
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	33.7 U	33.7 U	283 U B	703 U B	77.4	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
2,4-Dinitrotoluene	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
Nitrobenzene	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
1,4-Dichlorobenzene	ug/kg	170 U	170 U	170 UJ L	170 UJ L	180 U	170 UJ L	170 U
1,2,4-Trichlorobenzene	ug/kg	170 U	170 U	170 UJ L	170 UJ L	180 U	170 UJ L	170 U
1,3-Dichlorobenzene	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
Hexachlorobutadiene	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
1,2-Dichlorobenzene	ug/kg	170 U	170 U	170 UJ L	170 UJ L	180 U	170 UJ L	170 U
4-Nitroaniline	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
4-Nitrophenol	ug/kg	500 U	510 U	500 U	500 U	540 U	510 U	520 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
2,4-Dimethylphenol	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
4-Methylphenol	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
4-Chloroaniline	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
3,5-Dimethylphenol	ug/kg	170 U	170 U	170 UJ L	170 UJ L	180 U	170 UJ L	170 U
Phenol	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	170 U	170 U	170 U	180 UJ L	170 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	18 J Z	18 J Z	--	20 J Z	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	18 U	--	8.5 J Z	18 U	38
Di-N-Octyl Phthalate (8270C)	ug/kg	--	20 J Z	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	6.9 J Z	--	18 U	8.6 J Z	19 U	18 U	18 U
Hexachlorobenzene	ug/kg	170 U	170 U	170 UJ L	170 UJ L	180 U	170 UJ L	170 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	0.54 J Z	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
2,4-Dichlorophenol	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
1,2-Diphenylhydrazine	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	3.1	1.7	1.7 U	1.6 J Z	1.8 U	1.7	1.7 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	18 U	18 U	18 U	18 U	19 U	18 U	18 U
Dibenzofuran	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	0.97 J Z, C	0.90 J Z, C	1.7 U	0.82 J Z	1.8 U	1.2 J Z	1.7 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.1 J Z, C	0.89 J Z, C	1.7 U	1.7 U	1.8 U	0.94 J Z	1.7 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	7.7	2.9	1.7 U	1.6 J Z	1.8 U	2.4	1.7 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	4.1	2.9	1.7 U	2.1	1.8 U	2.9	1.7 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	3.2 J C	1.2 J Z, C	1.7 U	2.2	1.8 U	3.4	1.7 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
Chrysene (8270C)	ug/kg	--	--	17 J L, Z	--	--	--	--
Chrysene (8270C SIM)	ug/kg	4.5	5.2	--	1.6 J Z	1.8 U	2.4	0.49 J Z
bis(2-Chloroisopropyl) ether	ug/kg	170 U	170 U	170 U	22.0 U B	180 U	170 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.7 J C	1.5 J Z, C	1.7 U	0.91 J Z	1.8 U	1.3 J Z	1.7 U

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J - Result is an estimated value
R - Result is rejected

Sample Name		SL-046-SA6-SS-0.0-0.5	SL-047-SA6-SS-0.0-0.5	SL-048-SA6-SS-0.0-0.5	SL-049-SA6-SS-0.0-0.5	SL-049-SA6-SB-2.5-3.5	SL-050-SA6-SS-0.0-0.5	SL-050-SA6-SB-1.0-2.0
Sample Date		07/13/2011	07/13/2011	07/14/2011	07/14/2011	08/09/2011	07/14/2011	09/12/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE199	DE199	DE200	DE200	DE220	DE200	DE241
Start Depth		0	0	0	0	2.5	0	1
End Depth		0.5	0.5	0.5	0.5	3.5	0.5	2
2,4-Dinitrophenol	ug/kg	1000 UJ L	1000 UJ L	1000 U	1000 U	1100 U	1000 U	1000 UJ Q
4,6-Dinitro-2-Methylphenol	ug/kg	500 UJ L	510 UJ L	500 U	500 U	540 UJ L	510 U	520 UJ L
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.7 UJ C	1.7 UJ C	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.5 J Z	1.3 J Z	1.7 U	0.68 J Z	1.8 U	0.89 J Z	1.7 U
4-Chloro-3-Methylphenol	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
Aniline	ug/kg	500 U	510 U	500 U	500 U	540 U	510 U	520 U
Benzoic Acid	ug/kg	500 UJ L	510 UJ L	500 U	500 U	540 UJ L	510 U	520 UJ L
Hexachloroethane	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
4-Chlorophenyl Phenylether	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
Hexachlorocyclopentadiene	ug/kg	500 U	510 U	500 U	500 U	540 U	510 U	520 U
Isophorone	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	18 U	18 U	18 U	18 U	19 U	18 U	18 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	18 U B	18 U B	18 U	18 U	19 U	18 U	18 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.4 J Z	1.2 J Z	1.7 U	0.97 J Z	1.8 U	1.7	1.7 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	18 U	6.4 J Z	6.1 J Z	7.2 J Z	19 U	6.1 J Z	18 U
N-Nitrosodiphenylamine	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	0.73 J Z	1.8 U	1.7 U	1.7 U
Carbazole	ug/kg	170 U	170 U	170 UJ L	170 UJ L	180 U	170 UJ L	170 U
Pentachlorophenol	ug/kg	500 U	510 U	500 U	500 U	540 U	510 U	520 U
2,4,6-Trichlorophenol	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
2-Nitroaniline	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
2-Nitrophenol	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	0.72 J Z	1.7 U	1.7 U	1.7 U	1.8 U	0.69 J Z	1.7 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
2-Chloronaphthalene	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
3,3`-Dichlorobenzidine	ug/kg	340 U	340 U	330 U	340 U	360 U	340 U	340 U
Benzidine	ug/kg	3400 U	3400 UJ C	3300 U	3400 U	3600 U	3400 U	3400 R Q
2-Methylphenol	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
2-Chlorophenol	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
2,4,5-Trichlorophenol	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
3-Nitroaniline	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
Benzyl Alcohol	ug/kg	500 U	510 U	500 U	500 U	540 U	510 U	520 U
2,6-Dinitrotoluene	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-051-SA6-SS-0.0-0.5	SL-051-SA6-SB-3.5-4.5	SL-052-SA6-SS-0.0-0.5	SL-053-SA6-SS-0.0-0.5	SL-054-SA6-SS-0.0-0.5	SL-055-SA6-SS-0.0-0.5	SL-055-SA6-SB-2.0-3.0
Sample Date		07/14/2011	09/12/2011	07/14/2011	07/14/2011	07/14/2011	07/14/2011	09/12/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE200	DE241	DE200	DE200	DE200	DE200	DE241
Start Depth		0	3.5	0	0	0	0	2
End Depth		0.5	4.5	0.5	0.5	0.5	0.5	3
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	616 U B	432 U B	714 U B	2010 U B	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	8.3 U	1.7 U	1.7 U	1.7 U
2,4-Dinitrotoluene	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Nitrobenzene	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,4-Dichlorobenzene	ug/kg	170 UJ L	170 U	170 UJ L	170 UJ L	170 UJ L	170 UJ L	170 U
1,2,4-Trichlorobenzene	ug/kg	170 UJ L	170 U	170 UJ L	170 UJ L	170 UJ L	170 UJ L	170 U
1,3-Dichlorobenzene	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachlorobutadiene	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,2-Dichlorobenzene	ug/kg	170 UJ L	170 U	170 UJ L	170 UJ L	170 UJ L	170 UJ L	170 U
4-Nitroaniline	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Nitrophenol	ug/kg	510 U	520 U	510 U	510 U	510 U	510 U	510 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,4-Dimethylphenol	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Methylphenol	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Chloroaniline	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
3,5-Dimethylphenol	ug/kg	170 UJ L	170 U	170 UJ L	170 UJ L	170 UJ L	170 UJ L	170 U
Phenol	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	160 J Z	--	--	--	--	69 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	18 U	--	12 J Z	90 U	21	18 U	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	8.8 J Z	18 U	8.2 J Z	90 U	8.4 J Z	18 U	18 U
Hexachlorobenzene	ug/kg	170 UJ L	170 U	170 UJ L	170 UJ L	170 UJ L	170 UJ L	170 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	8.3 U	0.84 J Z	1.7 U	1.7 U
2,4-Dichlorophenol	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,2-Diphenylhydrazine	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	8.3 U	8.9	1.7 U	1.7 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	18 U	18 U	18 U	90 U	18 U	18 U	18 U
Dibenzofuran	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	8.3 U	2.7	1.7 U	1.7 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	8.3 U	3.2	1.7 U	1.7 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.3 J Z	8.3 U	14	1.7 U	1.7 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	8.3 U	14	1.7 U	1.7 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	0.74 J Z	1.7 U	1.5 J Z	8.3 U	5.2	0.72 J Z	1.7 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	8.3 U	1.7 U	1.7 U	1.7 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	0.54 J Z	1.7 U	1.6 J Z	2.4 J Z	8.6	0.47 J Z	0.58 J Z
bis(2-Chloroisopropyl) ether	ug/kg	170 U	28.0 U B	170 U	170 U	170 U	170 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.7 U	1.7 U	0.74 J Z	8.3 U	5.4	1.7 U	1.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-051-SA6-SS-0.0-0.5	SL-051-SA6-SB-3.5-4.5	SL-052-SA6-SS-0.0-0.5	SL-053-SA6-SS-0.0-0.5	SL-054-SA6-SS-0.0-0.5	SL-055-SA6-SS-0.0-0.5	SL-055-SA6-SB-2.0-3.0
Sample Date		07/14/2011	09/12/2011	07/14/2011	07/14/2011	07/14/2011	07/14/2011	09/12/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE200	DE241	DE200	DE200	DE200	DE200	DE241
Start Depth		0	3.5	0	0	0	0	2
End Depth		0.5	4.5	0.5	0.5	0.5	0.5	3
2,4-Dinitrophenol	ug/kg	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	510 U	520 UJ L	510 U	510 U	510 U	510 U	510 UJ L
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	8.3 U	1.3 J Z	1.7 U	1.7 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	8.3 U	5.4	1.7 U	1.7 U
4-Chloro-3-Methylphenol	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	13.0 U B	170 U	170 U	170 U	170 U	170 U	170 U
Aniline	ug/kg	510 U	520 U	510 U	510 U	510 U	510 U	510 U
Benzoic Acid	ug/kg	510 U	520 UJ L	510 U	510 U	510 U	510 U	510 UJ L
Hexachloroethane	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Chlorophenyl Phenylether	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachlorocyclopentadiene	ug/kg	510 U	520 U	510 U	510 U	510 U	510 U	510 U
Isophorone	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	8.3 U	1.7 U	1.7 U	1.7 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	18 U	18 U	18 U	90 U	18 U	18 U	18 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	18 U	18 U	18 U	90 U	6.3 J Z	18 U	18 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	8.3 U	5.1	1.7 U	1.7 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	18 U	18 U	6.1 J Z	90 U	16 J Z	18 U	18 U
N-Nitrosodiphenylamine	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	8.3 U	2.5	1.7 U	1.7 U
Carbazole	ug/kg	170 UJ L	170 U	170 UJ L	170 UJ L	170 UJ L	170 UJ L	170 U
Pentachlorophenol	ug/kg	510 U	520 U	510 U	510 U	510 U	510 U	510 U
2,4,6-Trichlorophenol	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Nitroaniline	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Nitrophenol	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	8.3 U	1.7 U	1.7 U	1.7 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	8.3 U	0.90 J Z	0.73 J Z	1.7 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	8.3 U	1.7 U	1.7 U	1.7 U
2-Chloronaphthalene	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
3,3`-Dichlorobenzidine	ug/kg	340 U	340 U	340 U	340 U	340 U	340 U	340 U
Benzidine	ug/kg	3400 U	3400 U	3400 U	3400 U	3400 U	3400 U	3400 U
2-Methylphenol	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Chlorophenol	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,4,5-Trichlorophenol	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
3-Nitroaniline	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzyl Alcohol	ug/kg	510 U	520 U	510 U	510 U	510 U	510 U	510 U
2,6-Dinitrotoluene	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U

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J - Result is an estimated value
R - Result is rejected

Sample Name		SL-056-SA6-SS-0.0-0.5	SL-058-SA6-SS-0.0-0.5	SL-059-SA6-SS-0.0-0.5	SL-060-SA6-SS-0.0-0.5	SL-063-SA6-SS-0.0-0.5	SL-064-SA6-SS-0.0-0.5	SL-064-SA6-SB-4.0-5.0
Sample Date		07/13/2011	07/13/2011	07/13/2011	07/14/2011	07/14/2011	07/14/2011	10/03/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE201	DE201	DE199	DE200	DE200	DE200	DE260
Start Depth		0	0	0	0	0	0	4
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	736 U B	339 U B	513 U B	345 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	8.6 U	1.7 U	1.7 U
2,4-Dinitrotoluene	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Nitrobenzene	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,4-Dichlorobenzene	ug/kg	170 U	170 U	170 U	170 UJ L	170 UJ L	170 UJ L	170 U
1,2,4-Trichlorobenzene	ug/kg	170 U	170 U	170 U	170 UJ L	170 UJ L	170 UJ L	170 U
1,3-Dichlorobenzene	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachlorobutadiene	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,2-Dichlorobenzene	ug/kg	170 U	170 U	170 U	170 UJ L	170 UJ L	170 UJ L	170 U
4-Nitroaniline	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Nitrophenol	ug/kg	500 U	500 U	500 U	510 U	520 U	510 U	520 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,4-Dimethylphenol	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Methylphenol	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Chloroaniline	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
3,5-Dimethylphenol	ug/kg	170 U	170 U	170 U	170 UJ L	170 UJ L	170 UJ L	170 U
Phenol	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	22 J Z	--	--	--	30 J Z	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	9.4 J Z	24 U B	18 U	--	13 J Z	23
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	170 U	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	18 U	18 U	7.5 J Z	18 U	--	18 U	19 U
Hexachlorobenzene	ug/kg	170 U	170 U	170 U	170 UJ L	170 UJ L	170 UJ L	170 U
Anthracene (8270C)	ug/kg	--	--	52 J Z	--	--	--	--
Anthracene (8270C SIM)	ug/kg	0.99 J Z	0.65 J Z	--	1.7 U	8.6 U	1.7 U	1.7 U
2,4-Dichlorophenol	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,2-Diphenylhydrazine	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Pyrene (8270C)	ug/kg	--	--	250	--	--	--	--
Pyrene (8270C SIM)	ug/kg	8.9	9.3	--	0.71 J Z	4.5 J Z	2.7	1.7 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	170 UJ L	--	--
Dimethylphthalate (8270C SIM)	ug/kg	18 U	18 U	18 U	18 U	--	18 U	19 U
Dibenzofuran	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	79 J Z	--	18 J Z	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.0 J Z	3.1	--	1.7 U	--	1.1 J Z	1.7 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	79 J Z	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.1 J Z	2.6	--	1.7 U	8.6 U	0.81 J Z	1.7 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	200	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	8.3	7.7	--	1.4 J Z	6.1 J Z	2.8	1.7 U
Fluoranthene (8270C)	ug/kg	--	--	350	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	11	11	--	1.1 J Z	6.6 J Z	3.3	1.7 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	90 J Z	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	5.3	3.0	--	1.2 J Z	7.6 J Z	4.8	1.9
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.1 J Z	1.7 U	8.6 U	1.7 U	1.7 U
Chrysene (8270C)	ug/kg	--	--	180	--	--	--	--
Chrysene (8270C SIM)	ug/kg	6.7	6.9	--	1.1 J Z	6.1 J Z	3.6	1.7 U
bis(2-Chloroisopropyl) ether	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	24.0 UJ B, S, C
Benzo(a)pyrene (8270C)	ug/kg	--	--	150 J Z	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	4.2	4.0	--	1.7 U	3.8 J Z	1.4 J Z	1.7 U

U - Compound not detected above the reporting limit
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R - Result is rejected

Sample Name		SL-056-SA6-SS-0.0-0.5	SL-058-SA6-SS-0.0-0.5	SL-059-SA6-SS-0.0-0.5	SL-060-SA6-SS-0.0-0.5	SL-063-SA6-SS-0.0-0.5	SL-064-SA6-SS-0.0-0.5	SL-064-SA6-SB-4.0-5.0
Sample Date		07/13/2011	07/13/2011	07/13/2011	07/14/2011	07/14/2011	07/14/2011	10/03/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE201	DE201	DE199	DE200	DE200	DE200	DE260
Start Depth		0	0	0	0	0	0	4
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	5
2,4-Dinitrophenol	ug/kg	1000 U	1000 U	1000 UJ L	1000 U	1000 U	1000 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	500 U	500 U	500 UJ L	510 U	520 U	510 U	520 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	26 J Z	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.7 U	0.82 J Z	--	1.7 U	8.6 U	1.7 U	1.7 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	190	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	4.6	4.4	--	1.7 U	8.6 U	1.1 J Z	1.7 U
4-Chloro-3-Methylphenol	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	170 U	12.0 U B	170 U	170 U	170 U	170 U
Aniline	ug/kg	500 U	500 U	500 U	510 U	520 U	510 U	520 U
Benzoic Acid	ug/kg	500 U	500 U	500 UJ L	510 U	520 U	510 U	520 U
Hexachloroethane	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Chlorophenyl Phenylether	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachlorocyclopentadiene	ug/kg	500 U	500 U	500 U	510 U	520 U	510 U	520 U
Isophorone	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Acenaphthene (8270C)	ug/kg	--	--	29 J Z	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	1.7 U	--	1.7 U	8.6 U	1.7 U	1.7 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	170 U	--	--
Diethylphthalate (8270C SIM)	ug/kg	18 U	18 U	18 U	18 U	--	18 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	170 UJ L	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	10 J Z	24	18 U B	18 U	--	18 U	19 U
Phenanthrene (8270C)	ug/kg	--	--	220	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	4.1	4.1	--	1.7 U	8.6 U	1.8	1.7 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	170 U	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	8.1 J Z	25	7.4 J Z	18 U	--	9.7 J Z	19 U
N-Nitrosodiphenylamine	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	8.6 U	1.1 J Z	1.7 U
Carbazole	ug/kg	170 U	170 U	36 J Z	170 UJ L	170 UJ L	170 UJ L	170 U
Pentachlorophenol	ug/kg	500 U	500 U	500 U	510 U	520 U	510 U	520 U
2,4,6-Trichlorophenol	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Nitroaniline	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Nitrophenol	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	8.6 U	1.7 U	1.7 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	8.6 U	1.3 J Z	1.7 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	8.6 U	1.7 U	1.7 U
2-Chloronaphthalene	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
3,3`-Dichlorobenzidine	ug/kg	340 U	340 U	340 U	340 U	350 U	340 U	340 U
Benzidine	ug/kg	3400 U	3400 U	3400 UJ C	3400 U	3500 U	3400 U	3400 U
2-Methylphenol	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Chlorophenol	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,4,5-Trichlorophenol	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
3-Nitroaniline	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzyl Alcohol	ug/kg	500 U	500 U	500 U	510 U	520 U	510 U	520 U
2,6-Dinitrotoluene	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	170 U	170 U	170 U	170 U	170 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-064-SA6-SB-9.0-10.0	SL-065-SA6-SB-1.5-2.5	SL-066-SA6-SS-0.0-0.5	SL-066-SA6-SB-2.0-3.0	SL-067-SA6-SS-0.0-0.5	SL-068-SA6-SB-4.0-5.0	SL-068-SA6-SB-19.0-20.0
Sample Date		10/03/2011	08/12/2011	07/13/2011	08/24/2011	07/13/2011	07/28/2011	07/28/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE260	DE223	DE199	DE231	DE199	DE211	DE211
Start Depth		9	1.5	0	2	0	4	19
End Depth		10	2.5	0.5	3	0.5	5	20
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	377 U	--	337 U	34.8 U	337 U	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.8 U	1.7 U	1.7 U	8.4 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
Nitrobenzene	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
Hexachlorobutadiene	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
4-Nitroaniline	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
4-Nitrophenol	ug/kg	560 U	530 U	510 U	520 U	510 U	540 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
4-Methylphenol	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
4-Chloroaniline	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
Phenol	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	30 J Z	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	19 U	18 U B	19 U	91 U B	20 U	13 J Z
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	19 U	6.2 J Z	19 U	34 J Z	20 U	20 U
Hexachlorobenzene	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	29 J Z
Anthracene (8270C SIM)	ug/kg	1.1 J Z	1.8 U	1.7 U	1.7 U	8.4 U	1.8 U	--
2,4-Dichlorophenol	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	150 J Z
Pyrene (8270C SIM)	ug/kg	0.76 J Z	1.8 U	1.7 U	1.7 U	4.6 J Z	1.8 U	--
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	170 U	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	19 U	18 U	19 U	--	20 U	20 U
Dibenzofuran	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	43 J Z
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.7 U	1.7 U	4.2 J Z, C	1.8 U	--
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	47 J Z
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.7 U	1.7 U	3.6 J Z, C	1.8 U	--
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	89 J Z
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.2 J Z	1.7 U	1.7 U	8.6	1.8 U	--
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	150 J Z
Fluoranthene (8270C SIM)	ug/kg	0.98 J Z	1.8 U	1.7 U	1.7 U	6.3 J Z	1.8 U	--
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	28 J Z
Benzo(k)fluoranthene (8270C SIM)	ug/kg	2.7	1.8 U	1.7 U	1.7 U	8.4 UJ C	1.8 U	--
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.7 U	1.7 U	8.4 U	1.8 U	1.8 J Z
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	80 J Z
Chrysene (8270C SIM)	ug/kg	0.81 J Z	0.77 J Z	1.7 U	1.7 U	3.3 J Z	0.43 J Z	--
bis(2-Chloroisopropyl) ether	ug/kg	190 U	11.0 U B	170 U	170 U	170 U	180 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	61 J Z
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.7 U	1.7 U	4.8 J Z, C	1.8 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A12
Semivolatiles-Validated Data
HSA-6

Sample Name		SL-064-SA6-SB-9.0-10.0	SL-065-SA6-SB-1.5-2.5	SL-066-SA6-SS-0.0-0.5	SL-066-SA6-SB-2.0-3.0	SL-067-SA6-SS-0.0-0.5	SL-068-SA6-SB-4.0-5.0	SL-068-SA6-SB-19.0-20.0
Sample Date		10/03/2011	08/12/2011	07/13/2011	08/24/2011	07/13/2011	07/28/2011	07/28/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE260	DE223	DE199	DE231	DE199	DE211	DE211
Start Depth		9	1.5	0	2	0	4	19
End Depth		10	2.5	0.5	3	0.5	5	20
2,4-Dinitrophenol	ug/kg	1100 U	1100 UJ L	1000 UJ L	1000 U	1000 UJ L	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	530 UJ L	510 UJ L	520 U	510 UJ L	540 U	560 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.7 U	1.7 U	8.4 UJ C	1.8 U	2.1
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	75 J Z
Benzo(a)anthracene (8270C SIM)	ug/kg	0.87 J Z	1.8 U	1.7 U	1.7 U	8.4 U	1.8 U	--
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	170 U	170 U	170 U	15.0 U B	190 U
Aniline	ug/kg	560 U	530 U	510 U	520 U	510 U	540 U	560 U
Benzoic Acid	ug/kg	560 U	530 UJ L	510 UJ L	520 U	510 UJ L	540 U	560 U
Hexachloroethane	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	560 U	530 U	510 U	520 U	510 U	540 U	560 U
Isophorone	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.7 U	1.7 U	8.4 U	1.8 U	1.6 J Z
Diethylphthalate (8270C)	ug/kg	--	--	--	--	170 U	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	14 J Z	18 U	19 U	--	20 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	170 U	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	19 U	18 U B	19 U	--	20 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	80 J Z
Phenanthrene (8270C SIM)	ug/kg	1.1 J Z	1.8 U	1.7 U	1.7 U	3.4 J Z	1.8 U	--
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	19 U	18 U	19 U	62 J Z	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.7 U	1.7 U	8.4 U	1.8 U	1.2 J Z
Carbazole	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
Pentachlorophenol	ug/kg	560 U	530 UJ L	510 U	520 U	510 U	540 U	560 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
2-Nitroaniline	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
2-Nitrophenol	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.7 U	1.7 U	8.4 U	1.8 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.9 U	1.3 J Z	1.7 U	1.7 U	8.4 U	1.8 U	0.98 J Z
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.7 U	1.7 U	8.4 U	1.8 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	370 U	350 U	340 U	350 U	340 U	360 U	380 U
Benzidine	ug/kg	3700 U	3500 U	3400 UJ C	3500 U	3400 UJ C	3600 U	3800 U
2-Methylphenol	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
2-Chlorophenol	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
3-Nitroaniline	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
Benzyl Alcohol	ug/kg	560 U	530 U	510 U	520 U	510 U	540 U	560 U
2,6-Dinitrotoluene	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	190 U	180 U	170 U	170 U	170 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-069-SA6-SB-4.0-5.0	SL-069-SA6-SB-9.0-10.0	SL-070-SA6-SB-4.0-5.0	SL-070-SA6-SB-19.0-20.0	SL-071-SA6-SB-4.0-5.0	SL-071-SA6-SB-6.0-7.0	SL-072-SA6-SB-4.0-5.0
Sample Date		07/27/2011	07/27/2011	07/28/2011	07/28/2011	07/14/2011	07/14/2011	07/13/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE210	DE210	DE211	DE211	DE200	DE200	DE199
Start Depth		4	9	4	19	4	6	4
End Depth		5	10	5	20	5	7	5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	2.0 U	9.1 U	18 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
Nitrobenzene	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	190 U	190 U	200 U	180 UJ L	180 UJ L	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	190 U	190 U	200 U	180 UJ L	180 UJ L	190 U
1,3-Dichlorobenzene	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
Hexachlorobutadiene	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	180 U	190 U	190 U	200 U	180 UJ L	180 UJ L	190 U
4-Nitroaniline	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
4-Nitrophenol	ug/kg	550 U	570 U	560 U	600 U	550 U	550 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
4-Methylphenol	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
4-Chloroaniline	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	190 U	190 U	200 U	180 UJ L	180 UJ L	190 U
Phenol	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	360 U	360 U	370 U
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	21 U	9.1 J Z	22 U	--	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	180 U	180 U	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	21 U	20 U	22 U	--	--	6.7 J Z
Hexachlorobenzene	ug/kg	180 U	190 U	190 U	200 U	180 UJ L	180 UJ L	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.8 U	1.0 J Z	1.9 U	18	17	9.5 J Z	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
Pyrene (8270C)	ug/kg	65 J Z	22 J Z	--	58 J Z	--	71 J L, Z	--
Pyrene (8270C SIM)	ug/kg	--	--	1.2 J Z	--	150	--	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	180 UJ L	180 UJ L	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	21 U	20 U	22 U	--	--	20 U
Dibenzofuran	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	27 J Z	--	--	55 J Z	--	47 J Z	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	--	3.5	1.9 U	--	37	--	1.9 UJ C
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	37 J Z	--	44 J Z	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	0.83 J Z	2.9	1.9 U	--	44	--	1.9 UJ C
Benzo(b)fluoranthene (8270C)	ug/kg	27 J Z	27 J Z	--	73 J Z	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	--	--	1.2 J Z	--	190	78	1.9 U
Fluoranthene (8270C)	ug/kg	55 J Z	24 J Z	--	59 J Z	--	--	--
Fluoranthene (8270C SIM)	ug/kg	--	--	1.2 J Z	--	230	85	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	36 J Z	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.2 J Z	3.9	1.9 U	--	73	31	1.9 UJ C
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	2.0 U	9.1 U	18 U	1.9 U
Chrysene (8270C)	ug/kg	35 J Z	--	--	60 J Z	--	--	--
Chrysene (8270C SIM)	ug/kg	--	11	2.8	--	140	53	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	21.0 U B	190 U	190 U	200 U	180 U	180 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	24 J Z	20 J Z	--	58 J Z	--	54 J Z	--
Benzo(a)pyrene (8270C SIM)	ug/kg	--	--	0.78 J Z	--	120	--	1.9 UJ C

U - Compound not detected above the reporting limit
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R - Result is rejected

Sample Name		SL-069-SA6-SB-4.0-5.0	SL-069-SA6-SB-9.0-10.0	SL-070-SA6-SB-4.0-5.0	SL-070-SA6-SB-19.0-20.0	SL-071-SA6-SB-4.0-5.0	SL-071-SA6-SB-6.0-7.0	SL-072-SA6-SB-4.0-5.0
Sample Date		07/27/2011	07/27/2011	07/28/2011	07/28/2011	07/14/2011	07/14/2011	07/13/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE210	DE210	DE211	DE211	DE200	DE200	DE199
Start Depth		4	9	4	19	4	6	4
End Depth		5	10	5	20	5	7	5
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 U	1200 U	1100 U	1100 U	1100 UJ L
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	570 U	560 U	600 U	550 U	550 U	560 UJ L
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	1.2 J Z	1.9 U	1.9 J Z	18	7.3 J Z	1.9 UJ C
Benzo(a)anthracene (8270C)	ug/kg	29 J Z	--	--	50 J Z	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	--	7.7	0.93 J Z	--	140	54	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	190 U	190 U	200 U	180 U	10.0 U B	190 U
Aniline	ug/kg	550 U	570 U	560 U	600 U	550 U	550 U	560 U
Benzoic Acid	ug/kg	550 U	570 U	560 U	600 U	550 U	550 U	560 UJ L
Hexachloroethane	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	550 U	570 U	560 U	600 U	550 U	550 U	560 U
Isophorone	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	8.9	9.1 U	18 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	180 U	180 U	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	21 U	20 U	22 U	--	--	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	180 UJ L	180 UJ L	190 U
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	21 U	20 U	22 U	--	--	--
Phenanthrene (8270C)	ug/kg	41 J Z	--	--	--	--	36 J L, Z	--
Phenanthrene (8270C SIM)	ug/kg	--	2.3	1.9 U	70	31	--	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	180 U	180 U	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	21 U	20 U	22 U	--	--	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	8.7	9.1 U	18 U	1.9 U
Carbazole	ug/kg	180 U	190 U	190 U	200 U	180 UJ L	180 UJ L	190 U
Pentachlorophenol	ug/kg	550 U	570 U	560 U	600 U	550 U	550 U	560 U
2,4,6-Trichlorophenol	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
2-Nitroaniline	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
2-Nitrophenol	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	1.6 J Z	9.1 U	18 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	0.82 J Z	0.79 J Z	1.9 U	1.7 J Z	9.1 U	18 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	1.8 J Z	9.1 U	18 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	360 U	380 U	370 U	400 U	360 U	360 U	370 U
Benzidine	ug/kg	3600 U	3800 U	3700 U	4000 U	3600 U	3600 U	3700 U
2-Methylphenol	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
2-Chlorophenol	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
3-Nitroaniline	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
Benzyl Alcohol	ug/kg	550 U	570 U	560 U	600 U	550 U	550 U	560 U
2,6-Dinitrotoluene	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	180 U	190 U	190 U	200 U	180 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-072-SA6-SB-9.0-10.0	SL-073-SA6-SB-4.0-5.0	SL-074-SA6-SB-4.0-5.0	SL-074-SA6-SB-9.0-10.0	SL-075-SA6-SB-4.0-5.0	SL-075-SA6-SB-9.0-10.0	SL-076-SA6-SB-2.0-3.0
Sample Date		07/13/2011	07/21/2011	07/14/2011	07/14/2011	07/22/2011	07/22/2011	07/27/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE199	DE206	DE200	DE200	DE207	DE207	DE210
Start Depth		9	4	4	9	4	9	2
End Depth		10	5	5	10	5	10	3
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	9.2 U	1.8 U	9.0 U	9.3 U	9.1 U	1.8 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Nitrobenzene	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	180 UJ L	180 UJ L	190 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	180 UJ L	180 UJ L	190 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Hexachlorobutadiene	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	190 U	180 U	180 UJ L	180 UJ L	190 U	180 U	180 U
4-Nitroaniline	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
4-Nitrophenol	ug/kg	580 U	550 U	540 U	550 U	560 U	550 U	540 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
4-Methylphenol	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
4-Chloroaniline	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	190 U	180 U	180 UJ L	180 UJ L	190 U	180 U	180 U
Phenol	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	380 U	38 J Z	--	--	370 U	25 J Z	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	19 U	46 J Z	--	--	7.4 J Z
Di-N-Octyl Phthalate (8270C)	ug/kg	--	180 U	--	180 U	190 U	180 U	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	7.1 J Z	--	19 U	--	--	--	20 U
Hexachlorobenzene	ug/kg	190 U	180 U	180 UJ L	180 UJ L	190 U	180 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	210	1.8 UJ FD	5.0 J Z	9.3 U	2.3 J Z	3.8
2,4-Dichlorophenol	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	45 J L, Z	--	110 J Z	--
Pyrene (8270C SIM)	ug/kg	1.9 U	1100	2.6 J FD, Q	--	9.3 U	--	3.8
Dimethylphthalate (8270C)	ug/kg	--	180 U	--	180 UJ L	190 U	180 U	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	--	19 U	--	--	--	20 U
Dibenzofuran	ug/kg	190 U	23 J Z	180 U	180 U	190 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	78 J Z	--	35 J Z	--	91 J Z	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 UJ C	--	0.82 J FD, Q, Z	--	9.3 U	--	2.3
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	21 J Z	--	80 J Z	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 UJ C	84	0.74 J FD, Q, Z	--	9.3 U	--	2.5
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	41 J Z	--	150 J Z	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	690	2.3 J FD, Q	--	9.3 U	--	3.5
Fluoranthene (8270C)	ug/kg	--	--	--	51 J L, Z	--	110 J Z	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	1300	3.6 J FD, Q	--	9.3 U	--	4.8
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	80 J Z	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 UJ C	320	4.7 J FD	15	9.3 U	--	3.3
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	9.2 U	1.8 U	9.0 U	9.3 U	9.1 U	1.9
Chrysene (8270C)	ug/kg	--	--	--	34 J L, Z	--	130 J Z	--
Chrysene (8270C SIM)	ug/kg	1.9 U	590	3.0 J FD, Q	--	9.3 U	--	4.1
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	33 J Z	--	130 J Z	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 UJ C	410	3.5 J FD, Q	--	9.3 U	--	3.2

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R - Result is rejected

Sample Name		SL-072-SA6-SB-9.0-10.0	SL-073-SA6-SB-4.0-5.0	SL-074-SA6-SB-4.0-5.0	SL-074-SA6-SB-9.0-10.0	SL-075-SA6-SB-4.0-5.0	SL-075-SA6-SB-9.0-10.0	SL-076-SA6-SB-2.0-3.0
Sample Date		07/13/2011	07/21/2011	07/14/2011	07/14/2011	07/22/2011	07/22/2011	07/27/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE199	DE206	DE200	DE200	DE207	DE207	DE210
Start Depth		9	4	4	9	4	9	2
End Depth		10	5	5	10	5	10	3
2,4-Dinitrophenol	ug/kg	1200 UJ L	1100 U	1100 U	1100 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	580 UJ L	550 U	540 U	550 U	560 U	550 U	540 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	24 J Z	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 UJ C	28	1.8 U	9.0 U	9.3 U	--	2.6
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	33 J Z	--	130 J Z	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	630	2.3 J FD, Q	--	9.3 U	--	4.4
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	180 U	10.0 U B	13.0 U B	180 U	180 U
Aniline	ug/kg	580 U	550 U	540 U	550 U	560 U	550 U	540 U
Benzoic Acid	ug/kg	580 UJ L	550 U	540 U	550 U	560 U	550 U	540 U
Hexachloroethane	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	580 U	550 U	540 U	550 U	560 U	550 U	540 U
Isophorone	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	62	1.8 U	5.7 J Z	9.3 U	9.1 U	2.1
Diethylphthalate (8270C)	ug/kg	--	180 U	--	180 U	190 U	180 U	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	--	19 U	--	--	--	20 U
Di-n-Butylphthalate (8270C)	ug/kg	190 U	180 U	--	180 UJ L	190 U	180 U	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	--	19 U	--	--	--	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	650	1.3 J FD, Z	12	9.3 U	4.4 J Z	4.1
Butylbenzylphthalate (8270C)	ug/kg	--	180 U	--	180 U	190 U	180 U	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	--	7.9 J Z	--	--	--	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	44	1.8 U	9.0 U	9.3 U	9.1 U	3.3
Carbazole	ug/kg	190 U	22 J Z	180 UJ L	180 UJ L	190 U	180 U	180 U
Pentachlorophenol	ug/kg	580 U	550 U	540 U	550 U	560 U	550 U	540 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
2-Nitroaniline	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
2-Nitrophenol	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	9.2 U	1.8 U	9.0 U	9.3 U	9.1 U	0.79 J Z
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.9 U	5.0 J Z	1.8 UJ FD	36	9.3 U	9.1 U	0.77 J Z
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	4.2 J Z	1.8 U	9.0 U	9.3 U	9.1 U	0.84 J Z
2-Chloronaphthalene	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	380 U	370 U	360 U	370 U	370 U	360 U	360 U
Benzidine	ug/kg	3800 U	3700 U	3600 U	3700 U	3700 U	3600 U	3600 U
2-Methylphenol	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
2-Chlorophenol	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
3-Nitroaniline	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Benzyl Alcohol	ug/kg	580 U	550 U	540 U	550 U	560 U	550 U	540 U
2,6-Dinitrotoluene	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-077-SA6-SB-4.0-5.0	SL-077-SA6-SB-9.0-10.0	SL-080-SA6-SB-3.5-4.5	SL-081-SA6-SB-4.0-5.0	SL-081-SA6-SB-9.0-10.0	SL-082-SA6-SB-4.0-5.0	SL-082-SA6-SB-9.0-10.0
Sample Date		07/26/2011	07/26/2011	07/26/2011	07/21/2011	07/21/2011	07/22/2011	07/22/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE209	DE209	DE209	DE206	DE206	DE207	DE207
Start Depth		4	9	3.5	4	9	4	9
End Depth		5	10	4.5	5	10	5	10
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.9 U	8.8 U	1.8 U
2,4-Dinitrotoluene	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
Nitrobenzene	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
Hexachlorobutadiene	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
4-Nitroaniline	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
4-Nitrophenol	ug/kg	550 U	580 U	520 U	540 U	560 U	530 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
4-Methylphenol	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
4-Chloroaniline	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
Phenol	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	350 U	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	21 U	19 U	20 U	20 U	--	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	180 U	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	21 U	19 U	20 U	20 U	--	20 U
Hexachlorobenzene	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.8 U	6.4	1.7 U	1.8 U	1.9 U	8.8 U	1.8 U
2,4-Dichlorophenol	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
Pyrene (8270C)	ug/kg	--	43 J Z	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	0.86 J Z	--	1.7 U	1.8 U	1.9 U	13	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	180 U	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	21 U	19 U	20 U	20 U	--	20 U
Dibenzofuran	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	31 J Z	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	2.1	--	1.7 U	1.8 U	1.9 U	4.3 J Z	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	29 J Z	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.8 U	--	1.7 U	1.8 U	1.9 U	8.8 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.2 J Z	44	1.7 U	1.8 U	1.9 U	15	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	0.84 J Z	57	1.7 U	1.8 U	1.9 U	11	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.8 U	23	1.7 U	1.8 U	1.9 U	6.9 J Z	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.9 U	8.8 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.2 J Z	41	1.7 U	1.8 U	1.9 U	12	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	190 U	170 U	180 U	190 U	9.0 UJ B, C	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	33 J Z	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.0 J Z	--	1.7 U	1.8 U	1.9 U	9.5	1.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-077-SA6-SB-4.0-5.0	SL-077-SA6-SB-9.0-10.0	SL-080-SA6-SB-3.5-4.5	SL-081-SA6-SB-4.0-5.0	SL-081-SA6-SB-9.0-10.0	SL-082-SA6-SB-4.0-5.0	SL-082-SA6-SB-9.0-10.0
Sample Date		07/26/2011	07/26/2011	07/26/2011	07/21/2011	07/21/2011	07/22/2011	07/22/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE209	DE209	DE209	DE206	DE206	DE207	DE207
Start Depth		4	9	3.5	4	9	4	9
End Depth		5	10	4.5	5	10	5	10
2,4-Dinitrophenol	ug/kg	1100 U	1200 U	1000 U	1100 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	580 U	520 U	540 U	560 U	530 U	550 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	4.8	1.7 U	1.8 U	1.9 U	8.8 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	0.78 J Z	41	1.7 U	1.8 U	1.9 U	8.3 J Z	1.8 U
4-Chloro-3-Methylphenol	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
Aniline	ug/kg	550 U	580 U	520 U	540 U	560 U	530 U	550 U
Benzoic Acid	ug/kg	550 U	580 U	520 U	540 U	560 U	530 U	550 U
Hexachloroethane	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	550 U	580 U	520 U	540 U	560 U	530 U	550 U
Isophorone	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.9 U	8.8 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	180 U	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	21 U	19 U	20 U	20 U	--	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	180 U	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	21 U	19 U	20 U	20 U	--	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	11	1.7 U	1.8 U	1.9 U	8.8 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	180 U	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	21 U	19 U	20 U	20 U	--	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.9 U	8.8 U	1.8 U
Carbazole	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
Pentachlorophenol	ug/kg	550 U	580 U	520 U	540 U	560 U	530 U	550 U
2,4,6-Trichlorophenol	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
2-Nitroaniline	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
2-Nitrophenol	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.9 U	8.8 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.9 U	8.8 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.9 U	8.8 U	1.8 U
2-Chloronaphthalene	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	360 U	380 U	350 U	360 U	370 U	350 U	370 U
Benzidine	ug/kg	3600 U	3800 U	3500 U	3600 U	3700 U	3500 U	3700 U
2-Methylphenol	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
2-Chlorophenol	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
3-Nitroaniline	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
Benzyl Alcohol	ug/kg	550 U	580 U	520 U	540 U	560 U	530 U	550 U
2,6-Dinitrotoluene	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	180 U	190 U	170 U	180 U	190 U	180 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-083-SA6-SB-4.0-5.0	SL-083-SA6-SB-9.0-10.0	SL-084-SA6-SB-4.0-5.0	SL-084-SA6-SB-9.0-10.0	SL-085-SA6-SB-4.0-5.0	SL-085-SA6-SB-7.0-8.0	SL-086-SA6-SB-4.0-5.0
Sample Date		07/13/2011	07/13/2011	07/19/2011	07/19/2011	07/19/2011	07/19/2011	07/20/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE199	DE199	DE203	DE203	DE203	DE203	DE204
Start Depth		4	9	4	9	4	7	4
End Depth		5	10	5	10	5	8	5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	8.9 U	9.1 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
2,4-Dinitrotoluene	ug/kg	180 U	180 UJ I	180 U	180 U	12.5 U B	180 U	29.9 U B
Nitrobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U
Hexachlorobutadiene	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U
4-Nitroaniline	ug/kg	180 U	180 UJ I	180 U	180 U	180 U	180 U	180 U
4-Nitrophenol	ug/kg	530 U	550 UJ I	540 U	540 U	540 U	540 U	540 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 UJ I	180 U	180 U	180 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U
4-Methylphenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U
4-Chloroaniline	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U
Phenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	360 U	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	96 U B	98 U B	24 U B	39 U B	20 U B	--	19 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	51 J Z	37 J Z	19 U	19 U	20 U	19 U	19 U
Hexachlorobenzene	ug/kg	180 U	180 UJ I	180 U	180 U	180 U	180 U	180 U
Anthracene (8270C)	ug/kg	22 J Z	--	35 J Z	--	--	--	--
Anthracene (8270C SIM)	ug/kg	--	9.1 U	--	0.90 J Z	0.63 J Z	1.8 U	1.8 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U
Pyrene (8270C)	ug/kg	180	60 J S, I, Z	190	25 J Z	19 J Z	--	--
Pyrene (8270C SIM)	ug/kg	--	--	--	--	--	1.8 U	0.83 J Z
Dimethylphthalate (8270C)	ug/kg	180 U	180 UJ I	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	--	--	19 U	19 U	20 U	19 U	19 U
Dibenzofuran	ug/kg	180 U	180 UJ I	180 U	180 U	180 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	100 J Z	36 J S, I, Z	78 J Z	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	--	--	--	3.0	4.1	1.8 U	2.3
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	77 J Z	33 J S, I, Z	57 J Z	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	--	--	--	1.7 J Z	3.7	1.8 U	1.3 J Z
Benzo(b)fluoranthene (8270C)	ug/kg	180	48 J S, I, Z	130 J Z	23 J Z	20 J Z	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	--	--	--	--	--	1.8 U	3.2
Fluoranthene (8270C)	ug/kg	220	47 J S, I, Z	240	25 J Z	20 J Z	--	--
Fluoranthene (8270C SIM)	ug/kg	--	--	--	--	--	1.8 U	1.1 J Z
Benzo(k)fluoranthene (8270C)	ug/kg	89 J Z	26 J S, I, Z	72 J Z	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	--	--	--	4.5	5.5	1.8 U	1.1 J Z
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	8.9 U	9.1 U	1.0 J Z	1.8 U	0.42 J Z	1.8 U	1.8 U
Chrysene (8270C)	ug/kg	170 J Z	43 J S, I, Z	120 J Z	21 J Z	--	--	--
Chrysene (8270C SIM)	ug/kg	--	--	--	--	7.3	1.8 U	1.2 J Z
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	160 J Z	44 J S, I, Z	110 J Z	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	--	--	--	4.3	10	1.8 U	2.3

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R - Result is rejected

Sample Name		SL-083-SA6-SB-4.0-5.0	SL-083-SA6-SB-9.0-10.0	SL-084-SA6-SB-4.0-5.0	SL-084-SA6-SB-9.0-10.0	SL-085-SA6-SB-4.0-5.0	SL-085-SA6-SB-7.0-8.0	SL-086-SA6-SB-4.0-5.0
Sample Date		07/13/2011	07/13/2011	07/19/2011	07/19/2011	07/19/2011	07/19/2011	07/20/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE199	DE199	DE203	DE203	DE203	DE203	DE204
Start Depth		4	9	4	9	4	7	4
End Depth		5	10	5	10	5	8	5
2,4-Dinitrophenol	ug/kg	1100 UJ L	1100 UJ I, L	1100 U	1100 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	530 UJ L	550 UJ I, L	540 U	540 U	540 U	540 U	540 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	34 J Z	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	--	9.1 UJ C	4.7	1.8 U	0.92 J Z	1.8 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	150 J Z	31 J S, I, Z	120 J Z	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	--	--	--	4.1	7.5	1.8 U	0.96 J Z
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U
Aniline	ug/kg	530 U	550 U	540 U	540 U	540 U	540 U	540 U
Benzoic Acid	ug/kg	530 UJ L	550 UJ L	540 U	540 U	540 U	540 U	540 U
Hexachloroethane	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 UJ I	180 U	180 U	180 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	530 U	550 UJ I	540 U	540 U	540 U	540 U	540 U
Isophorone	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	8.9 U	9.1 U	2.6	1.8 U	1.8 U	1.8 U	1.8 U
Diethylphthalate (8270C)	ug/kg	180 U	180 UJ I	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	--	--	19 U	19 U	20 U	19 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	--	180 UJ I	180 U	180 U	180 U	180 U	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	96 U B	--	--	--	--	--	19 U
Phenanthrene (8270C)	ug/kg	99 J Z	--	200	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	--	5.9 J Z	--	6.1	1.5 J Z	1.8 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	180 UJ I	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	51 J Z	--	19 U	19 U	20 U	19 U	19 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 UJ I	180 U	180 U	180 U	180 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	8.9 U	9.1 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Carbazole	ug/kg	180 U	180 UJ I	30 J Z	180 U	180 U	180 U	180 U
Pentachlorophenol	ug/kg	530 U	550 UJ I	540 U	540 U	540 U	540 U	540 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 UJ I	180 U	180 U	180 U	180 U	180 U
2-Nitroaniline	ug/kg	180 U	180 UJ I	180 U	180 U	180 U	180 U	180 U
2-Nitrophenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	12	9.1 U	2.0	1.8 U	1.8 U	1.8 U	1.8 U
Naphthalene (8270C)	ug/kg	24 J Z	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	--	9.1 U	2.9	1.8 U	1.8 U	1.8 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	17	9.1 U	2.6	1.8 U	1.8 U	1.8 U	1.8 U
2-Chloronaphthalene	ug/kg	180 U	180 UJ I	180 U	180 U	180 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	360 U	360 UJ I	360 U	360 U	360 U	360 U	360 U
Benzidine	ug/kg	3600 U	3600 UJ I	3600 U	3600 U	3600 U	3600 U	3600 U
2-Methylphenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U
2-Chlorophenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 UJ I	180 U	180 U	180 U	180 U	180 U
3-Nitroaniline	ug/kg	180 U	180 UJ I	180 U	180 U	180 U	180 U	180 U
Benzyl Alcohol	ug/kg	530 U	550 U	540 U	540 U	540 U	540 U	540 U
2,6-Dinitrotoluene	ug/kg	180 U	180 UJ I	180 U	180 U	180 U	180 U	180 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-086-SA6-SB-9.0-10.0	SL-088-SA6-SB-4.0-5.0	SL-088-SA6-SB-9.0-10.0	SL-089-SA6-SB-4.0-5.0	SL-089-SA6-SB-9.0-10.0	SL-090-SA6-SB-3.0-4.0	SL-097-SA6-SB-1.5-2.5
Sample Date		07/20/2011	07/14/2011	07/14/2011	07/27/2011	07/27/2011	07/28/2011	07/20/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE204	DE200	DE200	DE210	DE210	DE211	DE204
Start Depth		9	4	9	4	9	3	1.5
End Depth		10	5	10	5	10	4	2.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	349 U B
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	9.0 U	1.7 U	9.2 U	1.9 U	1.8 U	1.8 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Nitrobenzene	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	180 UJ L	180 UJ L	180 U	190 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 UJ L	180 UJ L	180 U	190 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Hexachlorobutadiene	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	190 U	180 UJ L	180 UJ L	180 U	190 U	180 U	180 U
4-Nitroaniline	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
4-Nitrophenol	ug/kg	560 U	540 U	530 U	550 U	560 U	550 U	530 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
4-Methylphenol	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
4-Chloroaniline	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	190 U	180 UJ L	180 UJ L	180 U	190 U	180 U	180 U
Phenol	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	360 U	--	370 U	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	--	19 U	--	14 J Z	20 U	6.9 J Z
Di-N-Octyl Phthalate (8270C)	ug/kg	--	180 U	--	180 U	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	--	19 U	--	20 U	20 U	19 U
Hexachlorobenzene	ug/kg	190 U	180 UJ L	180 UJ L	180 U	190 U	180 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	4.9 J Z	1.7 U	7.9 J Z	3.7	1.8 U	6.9
2,4-Dichlorophenol	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	30 J Z	--	84 J Z
Pyrene (8270C SIM)	ug/kg	1.9 U	28	1.7 U	8.5 J Z	--	1.8 U	--
Dimethylphthalate (8270C)	ug/kg	--	180 UJ L	--	180 U	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	--	19 U	--	20 U	20 U	19 U
Dibenzofuran	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	29 J Z	--	--	23 J Z	--	100 J Z
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	--	1.7 U	6.1 J Z	--	1.8 U	--
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	21 J Z	--	--	--	--	71 J Z
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	--	1.7 U	4.9 J Z	6.7	1.8 U	--
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	37 J Z	--	110 J Z
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	50	1.7 U	9.3	--	1.8 U	--
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	45	1.7 U	11	36	1.8 U	76
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	68 J Z
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	18	1.7 U	10	12	1.8 U	--
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	9.0 U	1.7 U	9.2 U	0.46 J Z	1.8 U	0.46 J Z
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	78 J Z
Chrysene (8270C SIM)	ug/kg	1.9 U	32	1.7 U	11	21	1.8 U	--
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	22 J Z	--	99 J Z
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	32	1.7 U	7.2 J Z	--	1.8 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-086-SA6-SB-9.0-10.0	SL-088-SA6-SB-4.0-5.0	SL-088-SA6-SB-9.0-10.0	SL-089-SA6-SB-4.0-5.0	SL-089-SA6-SB-9.0-10.0	SL-090-SA6-SB-3.0-4.0	SL-097-SA6-SB-1.5-2.5
Sample Date		07/20/2011	07/14/2011	07/14/2011	07/27/2011	07/27/2011	07/28/2011	07/20/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE204	DE200	DE200	DE210	DE210	DE211	DE204
Start Depth		9	4	9	4	9	3	1.5
End Depth		10	5	10	5	10	4	2.5
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 U	1100 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	540 U	530 U	550 U	560 U	550 U	530 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	27 J Z
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	4.0 J Z	1.7 U	4.7 J Z	2.4	1.8 U	--
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	75 J Z
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	34	1.7 U	9.2	21	1.8 U	--
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Aniline	ug/kg	560 U	540 U	530 U	550 U	560 U	550 U	530 U
Benzoic Acid	ug/kg	560 U	540 U	530 U	550 U	560 U	550 U	530 U
Hexachloroethane	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	560 U	540 U	530 U	550 U	560 U	550 U	530 U
Isophorone	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	180 U	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	9.0 U	1.7 U	9.2 U	1.9 U	1.8 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	180 U	--	180 U	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	--	19 U	--	20 U	20 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	--	180 UJ L	--	180 U	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	--	19 U	--	20 U	20 U	19 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	5.7 J Z	1.7 U	8.3 J Z	12	1.8 U	13
Butylbenzylphthalate (8270C)	ug/kg	--	180 U	--	180 U	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	--	19 U	--	20 U	20 U	19 U
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	9.0 U	1.7 U	4.1 J Z	0.96 J Z	1.8 U	0.86 J Z
Carbazole	ug/kg	190 U	180 UJ L	180 UJ L	180 U	190 U	180 U	180 U
Pentachlorophenol	ug/kg	560 U	540 U	530 U	550 U	560 U	550 U	530 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
2-Nitroaniline	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
2-Nitrophenol	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	9.0 U	1.7 U	9.2 U	1.9 U	1.8 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.9 U	9.0 U	1.7 U	9.2 U	1.9 U	1.8 U	0.77 J Z
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	9.0 U	1.7 U	9.2 U	1.9 U	1.8 U	1.8 U
2-Chloronaphthalene	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	370 U	360 U	350 U	370 U	370 U	370 U	350 U
Benzidine	ug/kg	3700 U	3600 U	3500 U	3700 U	3700 U	3700 U	3500 U
2-Methylphenol	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
2-Chlorophenol	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
3-Nitroaniline	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Benzyl Alcohol	ug/kg	560 U	540 U	530 U	550 U	560 U	550 U	530 U
2,6-Dinitrotoluene	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	190 U	180 U	180 U	180 U	190 U	180 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-098-SA6-SS-0.0-0.5	SL-098-SA6-SB-2.0-3.0	SL-103-SA6-SB-4.0-5.0	SL-103-SA6-SB-9.0-10.0	SL-104-SA6-SB-2.5-3.5	SL-105-SA6-SB-2.5-3.5	SL-109-SA6-SS-0.0-0.5
Sample Date		07/12/2011	07/25/2011	07/22/2011	07/22/2011	07/21/2011	07/21/2011	07/12/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE198	DE208	DE207	DE207	DE206	DE206	DE198
Start Depth		0	2	4	9	2.5	2.5	0
End Depth		0.5	3	5	10	3.5	3.5	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	17 U	8.8 U	1.8 U	1.8 U	9.0 U	1.8 U	85 U
2,4-Dinitrotoluene	ug/kg	170 U	180 U	180 U	180 U	180 U	36.6 U B	840 U
Nitrobenzene	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
1,4-Dichlorobenzene	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
1,2,4-Trichlorobenzene	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
1,3-Dichlorobenzene	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
Hexachlorobutadiene	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
1,2-Dichlorobenzene	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
4-Nitroaniline	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
4-Nitrophenol	ug/kg	510 U	530 U	530 U	550 U	540 U	550 U	2500 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
2,4-Dimethylphenol	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
4-Methylphenol	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
4-Chloroaniline	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
3,5-Dimethylphenol	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
Phenol	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	340 U	350 U	--	--	360 U	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	19 U	20 U	--	20 U	920 U B
Di-N-Octyl Phthalate (8270C)	ug/kg	170 U	--	--	--	180 U	--	840 U
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	60 J FD, L, Z	19 U	20 U	--	20 U	--
Hexachlorobenzene	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	0.167UJ B, Q, E	8.8 UJ L	1.8 U	1.8 U	4.6 J Z	1.8 U	85 U
2,4-Dichlorophenol	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
1,2-Diphenylhydrazine	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	11 J Z	4.4 J FD, Z	1.8 U	1.8 U	98	1.8 U	85 U
Dimethylphthalate (8270C)	ug/kg	170 U	180 U	--	--	180 U	--	840 U
Dimethylphthalate (8270C SIM)	ug/kg	--	--	19 U	20 U	--	20 U	--
Dibenzofuran	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	90 J Z
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	8.7 J Z	4.9 J FD, L, Z	1.8 U	1.8 U	12	1.8 U	--
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	17 U	8.8 U	1.8 U	1.8 U	11	1.8 U	85 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	12 J L, Z	6.7 J FD, L, Z	1.8 U	1.8 U	75	1.8 U	85 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	13 J Z	4.1 J FD, L, Z	1.8 U	1.8 U	85	1.8 U	85 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	17 U	5.6 J FD, L, Z	1.8 U	1.8 U	29	1.8 U	85 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	17 U	8.8 U	1.8 U	1.8 U	9.0 U	1.8 U	85 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	7.2 J Z	5.7 J FD, L, Z	1.8 U	1.8 U	67	1.8 U	22 J Z
bis(2-Chloroisopropyl) ether	ug/kg	170 U	180 U	180 U	180 U	180 U	15.0 U B	11.0 U B
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	17 U	5.4 J FD, L, Z	1.8 U	1.8 U	46	1.8 U	85 U

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J - Result is an estimated value
R - Result is rejected

Sample Name		SL-098-SA6-SS-0.0-0.5	SL-098-SA6-SB-2.0-3.0	SL-103-SA6-SB-4.0-5.0	SL-103-SA6-SB-9.0-10.0	SL-104-SA6-SB-2.5-3.5	SL-105-SA6-SB-2.5-3.5	SL-109-SA6-SS-0.0-0.5
Sample Date		07/12/2011	07/25/2011	07/22/2011	07/22/2011	07/21/2011	07/21/2011	07/12/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE198	DE208	DE207	DE207	DE206	DE206	DE198
Start Depth		0	2	4	9	2.5	2.5	0
End Depth		0.5	3	5	10	3.5	3.5	0.5
2,4-Dinitrophenol	ug/kg	1000 U	1100 U	1100 U	1100 U	1100 U	1100 U	5000 U
4,6-Dinitro-2-Methylphenol	ug/kg	510 U	530 U	530 U	550 U	540 U	550 U	2500 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	17 U	8.8 U	1.8 U	1.8 U	3.8 J Z	1.8 U	85 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	17 U	8.8 U	1.8 U	1.8 U	51	1.8 U	85 U
4-Chloro-3-Methylphenol	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
Aniline	ug/kg	510 U	530 U	530 U	550 U	540 U	550 U	2500 U
Benzoic Acid	ug/kg	510 U	530 U	530 U	550 U	540 U	550 U	2500 U
Hexachloroethane	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
4-Chlorophenyl Phenylether	ug/kg	170 U	180 UJ Q	180 U	180 U	180 U	180 U	840 U
Hexachlorocyclopentadiene	ug/kg	510 U	530 U	530 U	550 U	540 U	550 U	2500 U
Isophorone	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	17 U	8.8 U	1.8 U	1.8 U	9.0 U	1.8 U	85 U
Diethylphthalate (8270C)	ug/kg	170 U	180 U	--	--	180 U	--	840 U
Diethylphthalate (8270C SIM)	ug/kg	--	--	19 U	20 U	--	20 U	--
Di-n-Butylphthalate (8270C)	ug/kg	--	180 U	--	--	180 U	--	840 U
Di-n-Butylphthalate (8270C SIM)	ug/kg	180 U B	--	19 U	20 U	--	20 U	--
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	17 U	8.8 U	1.8 U	1.8 U	21	1.8 U	85 U
Butylbenzylphthalate (8270C)	ug/kg	170 U	180 U	--	--	180 U	--	840 U
Butylbenzylphthalate (8270C SIM)	ug/kg	--	--	19 U	20 U	--	20 U	--
N-Nitrosodiphenylamine	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	17 U	8.8 U	1.8 U	1.8 U	9.0 U	1.8 U	85 U
Carbazole	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
Pentachlorophenol	ug/kg	510 U	530 U	530 U	550 U	540 U	550 U	2500 U
2,4,6-Trichlorophenol	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
2-Nitroaniline	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
2-Nitrophenol	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	17 U	8.8 U	1.8 U	1.8 U	9.0 U	1.8 U	85 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	17 U	8.8 U	1.8 U	1.8 U	9.0 U	1.8 U	85 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	17 U	8.8 U	1.8 U	1.8 U	9.0 U	1.8 U	85 U
2-Chloronaphthalene	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
3,3`-Dichlorobenzidine	ug/kg	340 U	350 U	360 U	370 U	360 U	360 U	1700 U
Benzidine	ug/kg	3400 U	3500 UJ Q	3600 U	3700 U	3600 U	3600 U	17000 U
2-Methylphenol	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
2-Chlorophenol	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
2,4,5-Trichlorophenol	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
3-Nitroaniline	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
Benzyl Alcohol	ug/kg	510 U	530 U	530 U	550 U	540 U	550 U	2500 U
2,6-Dinitrotoluene	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	180 U	180 U	180 U	180 U	180 U	840 U

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R - Result is rejected

Sample Name		SL-110-SA6-SS-0.0-0.5	SL-113-SA6-SS-0.0-0.5	SL-113-SA6-SB-4.0-5.0	SL-113-SA6-SB-7.0-8.0	SL-114-SA6-SB-4.0-5.0	SL-114-SA6-SB-9.0-10.0	SL-116-SA6-SB-2.5-3.5
Sample Date		07/12/2011	07/12/2011	08/26/2011	08/26/2011	08/05/2011	08/05/2011	07/13/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE198	DE198	DE233	DE233	DE218	DE218	DE199
Start Depth		0	0	4	7	4	9	2.5
End Depth		0.5	0.5	5	8	5	10	3.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	85 U	87 U	8.7 U	8.9 U	58	1.9 U	1.8 U
2,4-Dinitrotoluene	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
Nitrobenzene	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
1,4-Dichlorobenzene	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
1,2,4-Trichlorobenzene	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
1,3-Dichlorobenzene	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
Hexachlorobutadiene	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
1,2-Dichlorobenzene	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
4-Nitroaniline	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
4-Nitrophenol	ug/kg	2500 U	2600 U	520 U	530 U	530 U	560 U	540 U
4-Bromophenyl Phenyl Ether	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
2,4-Dimethylphenol	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
4-Methylphenol	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
4-Chloroaniline	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
3,5-Dimethylphenol	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
Phenol	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	190 J Z	1700 U	--	53 J Z	--	--	360 U
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	110	--	8.1 J Z	20 U	--
Di-N-Octyl Phthalate (8270C)	ug/kg	840 U	870 U	170 U	180 U	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	--	--	--	19 U	20 U	6.6 J Z
Hexachlorobenzene	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	85 U	87 U	8.7 U	8.9 U	6.5	1.9 U	1.8 U
2,4-Dichlorophenol	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
1,2-Diphenylhydrazine	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	19 J Z	--	--	--
Pyrene (8270C SIM)	ug/kg	85 U	87 U	21	--	72	1.3 J Z	1.8 U
Dimethylphthalate (8270C)	ug/kg	840 U	870 U	170 U	180 U	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	--	--	--	--	19 U	20 U	19 U
Dibenzofuran	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	91 J Z	--	--	--	110 J Z	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	--	97	11	7.2 J Z	--	1.9	1.8 UJ C
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	110 J Z	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	85 U	87 U	5.5 J Z	8.9 U	--	1.9	1.8 UJ C
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	85 U	87 U	57	22	180	4.2	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	22 J Z	--	--	--
Fluoranthene (8270C SIM)	ug/kg	85 U	87 U	15	--	20	1.4 J Z	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	58 J Z	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	85 U	87 U	8.7 U	8.9 U	--	0.99 J Z	1.8 UJ C
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	85 U	87 U	8.7 U	8.9 U	9.3	0.38 J Z	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	85 U	48 J Z	46	17	62	1.7 J Z	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	840 U	14.0 U B	170 U	180 U	180 U	190 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	150 J Z	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	85 U	87 U	27	12	--	3.5	1.8 UJ C

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R - Result is rejected

Sample Name		SL-110-SA6-SS-0.0-0.5	SL-113-SA6-SS-0.0-0.5	SL-113-SA6-SB-4.0-5.0	SL-113-SA6-SB-7.0-8.0	SL-114-SA6-SB-4.0-5.0	SL-114-SA6-SB-9.0-10.0	SL-116-SA6-SB-2.5-3.5
Sample Date		07/12/2011	07/12/2011	08/26/2011	08/26/2011	08/05/2011	08/05/2011	07/13/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE198	DE198	DE233	DE233	DE218	DE218	DE199
Start Depth		0	0	4	7	4	9	2.5
End Depth		0.5	0.5	5	8	5	10	3.5
2,4-Dinitrophenol	ug/kg	5100 U	5200 U	1000 U	1100 U	1100 U	1100 U	1100 UJ L
4,6-Dinitro-2-Methylphenol	ug/kg	2500 U	2600 U	520 U	530 U	530 U	560 U	540 UJ L
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	32 J Z	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	85 U	87 U	6.4 J Z	8.9 U	--	1.9 U	1.8 UJ C
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	85 U	87 U	8.7	4.5 J Z	24	0.90 J Z	1.8 U
4-Chloro-3-Methylphenol	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	840 U	7.0 UJ B, L	170 U	180 U	180 U	190 U	180 U
Aniline	ug/kg	2500 U	2600 U	520 U	530 U	530 U	560 U	540 U
Benzoic Acid	ug/kg	2500 U	2600 U	520 U	530 U	530 U	560 U	540 UJ L
Hexachloroethane	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
4-Chlorophenyl Phenylether	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
Hexachlorocyclopentadiene	ug/kg	2500 U	2600 U	520 U	530 U	530 U	560 U	540 U
Isophorone	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	85 U	87 U	8.7 U	8.9 U	1.8 U	1.9 U	1.8 U
Diethylphthalate (8270C)	ug/kg	840 U	870 U	170 U	180 U	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	--	--	--	--	19 U	20 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	840 U	870 U	170 U	180 U	--	--	180 U
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	--	--	--	19 U	20 U	--
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	85 U	87 U	13	21	3.0	1.9 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	840 U	870 U	170 U	180 U	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	--	--	--	19 U	20 U	19 U
N-Nitrosodiphenylamine	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	85 U	87 U	8.7 U	8.9 U	0.95 J Z	1.9 U	1.8 U
Carbazole	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
Pentachlorophenol	ug/kg	2500 U	2600 U	520 U	530 U	530 U	560 U	540 U
2,4,6-Trichlorophenol	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
2-Nitroaniline	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
2-Nitrophenol	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	85 U	87 U	8.7 U	8.9 U	1.8 U	1.9 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	85 U	87 U	8.7 U	8.9 U	1.8 U B	1.9 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	85 U	87 U	8.7 U	8.9 U	0.83 J Z	1.9 U	1.8 U
2-Chloronaphthalene	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
3,3`-Dichlorobenzidine	ug/kg	1700 U	1700 U	350 U	350 U	360 U	370 U	360 U
Benzidine	ug/kg	17000 U	17000 U	3500 U	3500 U	3600 U	3700 U	3600 U
2-Methylphenol	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
2-Chlorophenol	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
2,4,5-Trichlorophenol	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
3-Nitroaniline	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
Benzyl Alcohol	ug/kg	2500 U	2600 U	520 U	530 U	530 U	560 U	540 U
2,6-Dinitrotoluene	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	840 U	870 U	170 U	180 U	180 U	190 U	180 U

U - Compound not detected above the reporting limit
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R - Result is rejected

Sample Name		SL-117-SA6-SB-2.0-3.0	SL-118-SA6-SB-4.0-5.0	SL-118-SA6-SB-10.5-11.5	SL-122-SA6-SB-0.0-0.5	SL-123-SA6-SB-4.0-5.0	SL-123-SA6-SB-7.0-8.0	SL-124-SA6-SB-4.0-5.0
Sample Date		07/27/2011	07/13/2011	07/13/2011	07/29/2011	07/29/2011	07/29/2011	07/22/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE210	DE199	DE199	DE212	DE212	DE212	DE207
Start Depth		2	4	10.5	0	4	7	4
End Depth		3	5	11.5	0.5	5	8	5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.9 U	1.8 U	8.4 U	9.1 U	9.1 U	9.0 U
2,4-Dinitrotoluene	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
Nitrobenzene	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
Hexachlorobutadiene	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
4-Nitroaniline	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
4-Nitrophenol	ug/kg	520 U	560 U	530 U	500 U	550 U	540 U	540 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
4-Methylphenol	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
4-Chloroaniline	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
Phenol	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	350 U	650	--	130 J Z	360 U
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	19 U	20 U B	--	--	45 J Z	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	170 U	180 U	--	180 U
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	19 U	7.6 J Z	8.3 J Z	--	--	41 J Z	--
Hexachlorobenzene	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.4 J Z	1.9 U	1.8 U	8.4 U	3.3 J Z	13	9.4
2,4-Dichlorophenol	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	2.1	1.2 J Z	1.8 U	4.3 J Z	37	58	61
Dimethylphthalate (8270C)	ug/kg	--	--	--	170 U	180 U	180 U	180 U
Dimethylphthalate (8270C SIM)	ug/kg	19 U	20 U	19 U	--	--	--	--
Dibenzofuran	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	28 J Z	33 J Z
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.7 U	1.1 J Z, C	1.8 UJ C	5.4 J Z	17	--	--
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	19 J L, Z	25 J Z
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.2 J Z	1.9 UJ C	1.8 UJ C	8.4 U	11	--	--
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9	2.8	1.8 U	3.7 J Z	44	63	60
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	2.7	1.3 J Z	1.8 U	4.4 J Z	44	67	77
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	31 J Z
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.8	0.86 J Z, C	1.8 UJ C	6.52 U B	13	27	--
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.8 U	8.4 U	9.1 U	9.1 U	9.0 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	2.3	1.8 J Z	1.8 U	4.2 J Z	27	66	55
bis(2-Chloroisopropyl) ether	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	47 J Z
Benzo(a)pyrene (8270C SIM)	ug/kg	1.7	1.4 J Z, C	1.8 UJ C	8.4 U	26	38	--

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R - Result is rejected

Sample Name		SL-117-SA6-SB-2.0-3.0	SL-118-SA6-SB-4.0-5.0	SL-118-SA6-SB-10.5-11.5	SL-122-SA6-SB-0.0-0.5	SL-123-SA6-SB-4.0-5.0	SL-123-SA6-SB-7.0-8.0	SL-124-SA6-SB-4.0-5.0
Sample Date		07/27/2011	07/13/2011	07/13/2011	07/29/2011	07/29/2011	07/29/2011	07/22/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE210	DE199	DE199	DE212	DE212	DE212	DE207
Start Depth		2	4	10.5	0	4	7	4
End Depth		3	5	11.5	0.5	5	8	5
2,4-Dinitrophenol	ug/kg	1000 U	1100 UJ L	1100 UJ L	1000 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	520 U	560 UJ L	530 UJ L	500 U	550 U	540 U	540 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.2 J Z	1.9 UJ C	1.8 UJ C	8.4 U	9.1 U	13	6.3 J Z
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	2.4	1.2 J Z	1.8 U	8.4 U	27	46	53
4-Chloro-3-Methylphenol	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
Aniline	ug/kg	520 U	560 U	530 U	500 U	550 U	540 U	540 U
Benzoic Acid	ug/kg	520 U	560 UJ L	530 UJ L	500 U	550 U	540 U	540 U
Hexachloroethane	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	520 U	560 U	530 U	500 U	550 U	540 U	540 U
Isophorone	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.8 U	8.4 U	9.1 U	4.1 J Z	9.0 U
Diethylphthalate (8270C)	ug/kg	--	--	--	170 U	180 U	180 U	180 U
Diethylphthalate (8270C SIM)	ug/kg	19 U	20 U	19 U	--	--	--	--
Di-n-Butylphthalate (8270C)	ug/kg	--	--	180 U	--	--	--	180 U
Di-n-Butylphthalate (8270C SIM)	ug/kg	19 U	20 U B	--	59 J Z	55 J Z	70 J Z	--
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.6 J Z	1.9 U	1.8 U	8.4 U	12	38	29
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	180 U
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	20 U	19 U	36 J L, Z	38 J L, Z	58 J L, Z	--
N-Nitrosodiphenylamine	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.8 U	8.4 U	9.1 U	9.1 U	9.0 U
Carbazole	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
Pentachlorophenol	ug/kg	520 U	560 U	530 U	500 U	550 U	540 U	540 U
2,4,6-Trichlorophenol	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
2-Nitroaniline	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
2-Nitrophenol	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.8 U	8.4 U	9.1 U	9.1 U	9.0 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.8 U	26	9.1 U	9.1 U	9.0 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.8 U	8.4 U	9.1 U	9.1 U	9.0 U
2-Chloronaphthalene	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	350 U	370 U	350 U	340 U	360 U	360 U	360 U
Benzidine	ug/kg	3500 U	3700 U	3500 U	3400 U	3600 U	3600 U	3600 U
2-Methylphenol	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
2-Chlorophenol	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
3-Nitroaniline	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
Benzyl Alcohol	ug/kg	520 U	560 U	530 U	500 U	550 U	540 U	540 U
2,6-Dinitrotoluene	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	190 U	180 U	170 U	180 U	180 U	180 U

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R - Result is rejected

Sample Name		SL-124-SA6-SB-12.5-13.5	SL-125-SA6-SB-4.0-5.0	SL-125-SA6-SB-20.0-21.0	SL-126-SA6-SS-0.0-0.5	SL-126-SA6-SB-4.0-5.0	SL-126-SA6-SB-9.0-10.0	SL-127-SA6-SS-0.0-0.5
Sample Date		07/22/2011	07/29/2011	07/29/2011	07/14/2011	07/29/2011	07/29/2011	07/18/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE207	DE212	DE212	DE201	DE212	DE212	DE202
Start Depth		12.5	4	20	0	4	9	0
End Depth		13.5	5	21	0.5	5	10	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	9.2 U	9.1 U	9.6 U	8.4 U	1.8 U	1.8 U	8.4 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
Nitrobenzene	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
Hexachlorobutadiene	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
4-Nitroaniline	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
4-Nitrophenol	ug/kg	550 U	550 U	580 U	500 U	530 U	550 U	500 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
4-Methylphenol	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
4-Chloroaniline	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
Phenol	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 UJ Q
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	370 U	--	--	22 J Z	--	--	340 U
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	84 J Z	46 J Z	--	12 J Z	9.8 J Z	--
Di-N-Octyl Phthalate (8270C)	ug/kg	180 U	180 U	190 U	170 U	--	--	170 U
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	--	--	--	19 U	20 U	--
Hexachlorobenzene	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 UJ Q
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	9.2 U	730 J FD	17	8.4 U	8.7	1.8 U	2.3 J Z
2,4-Dichlorophenol	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	5.5 J Z	1900	68	8.4 U	18	1.8 U	36
Dimethylphthalate (8270C)	ug/kg	180 U	180 U	190 U	170 U	--	--	170 U
Dimethylphthalate (8270C SIM)	ug/kg	--	--	--	--	19 U	20 U	--
Dibenzofuran	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	5.9 J Z	300	24	8.4 U	0.93 J Z	1.8 U	13
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	9.2 U	280	18	8.4 U	1.8 U	1.8 U	11
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	4.3 J Z	930	65	8.4 U	2.0	1.8 U	47
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	5.8 J Z	3100	73	8.4 U	2.8	1.8 U	38
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	9.2 U	5.55 U B	5.77 U B	8.4 U	1.8 U	1.8 U	15
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	9.2 U	3.7 J FD, Z	2.4 J Z	8.4 U	0.69 J Z	1.8 U	8.4 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	4.5 J Z	750	50	1.9 J Z	6.1	1.8 U	33
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	9.2 U	550	46	8.4 U	2.0	1.8 U	30

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J - Result is an estimated value
R - Result is rejected

Sample Name		SL-124-SA6-SB-12.5-13.5	SL-125-SA6-SB-4.0-5.0	SL-125-SA6-SB-20.0-21.0	SL-126-SA6-SS-0.0-0.5	SL-126-SA6-SB-4.0-5.0	SL-126-SA6-SB-9.0-10.0	SL-127-SA6-SS-0.0-0.5
Sample Date		07/22/2011	07/29/2011	07/29/2011	07/14/2011	07/29/2011	07/29/2011	07/18/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE207	DE212	DE212	DE201	DE212	DE212	DE202
Start Depth		12.5	4	20	0	4	9	0
End Depth		13.5	5	21	0.5	5	10	0.5
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1200 U	1000 U	1100 U	1100 U	1000 R Q
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	550 U	580 U	500 U	530 U	550 U	500 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	9.2 U	69 J FD	4.9 J Z	8.4 U	1.8 U	1.8 U	8.4 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	9.2 U	960	50	8.4 U	2.9	1.8 U	30
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
Aniline	ug/kg	550 U	550 U	580 U	500 U	530 U	550 U	500 U
Benzoic Acid	ug/kg	550 U	550 U	580 U	500 U	530 U	550 U	500 R Q, L
Hexachloroethane	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 UJ Q
Hexachlorocyclopentadiene	ug/kg	550 U	550 U	580 U	500 U	530 U	550 U	500 U
Isophorone	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 UJ Q
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	9.2 U	97 J FD	6.1 J Z	8.4 U	2.0	1.8 U	8.4 U
Diethylphthalate (8270C)	ug/kg	180 U	180 U	190 U	170 U	--	--	170 U
Diethylphthalate (8270C SIM)	ug/kg	--	--	--	--	19 U	20 U	--
Di-n-Butylphthalate (8270C)	ug/kg	180 U	--	--	170 U	--	--	170 U
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	57 J FD, Z	56 J Z	--	13 J Z	13 J Z	--
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	9.2 U	2600	56	8.4 U	12	1.8 U	6.6 J Z
Butylbenzylphthalate (8270C)	ug/kg	180 U	180 U	190 U	170 U	--	--	170 U
Butylbenzylphthalate (8270C SIM)	ug/kg	--	--	--	--	8.6 J L, Z	7.5 J L, Z	--
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	9.2 U	110 J FD	12	8.4 U	3.7	1.8 U	8.4 U
Carbazole	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
Pentachlorophenol	ug/kg	550 U	550 U	580 U	500 U	530 U	550 U	500 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
2-Nitroaniline	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
2-Nitrophenol	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	9.2 U	9.1 U	19	8.4 U	3.1	1.8 U	8.4 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	9.2 U	9.1 U	9.6 U	8.4 U	1.8 U	1.8 U	8.4 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	9.2 U	9.1 U	28	8.4 U	3.1	1.8 U	8.4 U
2-Chloronaphthalene	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
3,3`-Dichlorobenzidine	ug/kg	370 U	360 U	380 U	340 U	350 U	370 U	340 UJ Q
Benzidine	ug/kg	3700 U	3600 U	3800 U	3400 U	3500 U	3700 U	3400 R Q
2-Methylphenol	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
2-Chlorophenol	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
3-Nitroaniline	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
Benzyl Alcohol	ug/kg	550 U	550 U	580 U	500 U	530 U	550 U	500 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	180 U	180 U	190 U	170 U	180 U	180 U	170 U

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Sample Name		SL-127-SA6-SB-2.0-3.0	SL-128-SA6-SS-0.0-0.5	SL-128-SA6-SB-4.0-5.0	SL-128-SA6-SB-7.5-8.5	SL-133-SA6-SS-0.0-0.5	SL-134-SA6-SS-0.0-0.5	SL-135-SA6-SB-4.0-5.0
Sample Date		08/01/2011	07/18/2011	08/02/2011	08/02/2011	07/18/2011	07/18/2011	07/11/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE213	DE202	DE214	DE214	DE202	DE202	DE197
Start Depth		2	0	4	7.5	0	0	4
End Depth		3	0.5	5	8.5	0.5	0.5	5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	8.6 U	8.4 U	1.8 U	1.8 U	8.5 U	8.4 U	1.9 U
2,4-Dinitrotoluene	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
Nitrobenzene	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
1,4-Dichlorobenzene	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
1,2,4-Trichlorobenzene	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
1,3-Dichlorobenzene	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
Hexachlorobutadiene	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
1,2-Dichlorobenzene	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
4-Nitroaniline	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
4-Nitrophenol	ug/kg	510 U	510 U	530 U	550 U	510 U	510 U	580 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
2,4-Dimethylphenol	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
4-Methylphenol	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
4-Chloroaniline	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
3,5-Dimethylphenol	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
Phenol	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	340 U	--	--	340 U	--	31 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	120	--	19 U	8.6 J Z	--	400	--
Di-N-Octyl Phthalate (8270C)	ug/kg	170 U	170 U	--	--	170 U	170 U	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	--	19 U	20 U	--	--	21 U
Hexachlorobenzene	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	2.2 J Z	8.4 U	0.88 J Z	1.8 U	8.5 U	3.0 J Z	1.9 U
2,4-Dichlorophenol	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
1,2-Diphenylhydrazine	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
Pyrene (8270C)	ug/kg	96 J Z	--	--	--	--	61 J Z	--
Pyrene (8270C SIM)	ug/kg	--	5.2 J Z	1.3 J Z	6.5	13	--	1.9 U
Dimethylphthalate (8270C)	ug/kg	170 U	170 U	--	--	170 U	170 U	--
Dimethylphthalate (8270C SIM)	ug/kg	--	--	19 U	20 U	--	--	21 U
Dibenzofuran	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	58 J Z	--	--	--	--	49 J Z	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	--	8.4 U	0.98 J Z	3.0	4.2 J Z	--	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	45 J Z	--	--	--	--	39 J Z	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	--	8.4 U	0.89 J Z	2.2	8.5 U	--	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	88 J Z	--	--	--	--	63 J Z	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	--	3.9 J Z	1.2 J Z	7.7	12	--	1.9 U
Fluoranthene (8270C)	ug/kg	93 J Z	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	--	6.0 J Z	1.3 J Z	4.9	15	60	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	39 J Z	--	--	--	--	26 J Z	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	--	9.7	0.94 J Z	2.4	7.2 J Z	--	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	8.6 U	8.4 U	1.8 U	1.8 U	8.5 U	8.4 U	1.9 U
Chrysene (8270C)	ug/kg	77 J Z	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	--	3.9 J Z	1.3 J Z	5.7	11	41	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	68 J Z	--	--	--	--	54 J Z	--
Benzo(a)pyrene (8270C SIM)	ug/kg	--	8.4 U	1.0 J Z	5.0	9.1	--	1.9 U

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Sample Name		SL-127-SA6-SB-2.0-3.0	SL-128-SA6-SS-0.0-0.5	SL-128-SA6-SB-4.0-5.0	SL-128-SA6-SB-7.5-8.5	SL-133-SA6-SS-0.0-0.5	SL-134-SA6-SS-0.0-0.5	SL-135-SA6-SB-4.0-5.0
Sample Date		08/01/2011	07/18/2011	08/02/2011	08/02/2011	07/18/2011	07/18/2011	07/11/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE213	DE202	DE214	DE214	DE202	DE202	DE197
Start Depth		2	0	4	7.5	0	0	4
End Depth		3	0.5	5	8.5	0.5	0.5	5
2,4-Dinitrophenol	ug/kg	1000 U	1000 U	1100 U	1100 U	1000 U	1000 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	510 U	510 U	530 U	550 U	510 U	510 U	580 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	17 J Z	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	--	8.4 U	0.75 J Z	1.8 U	8.5 U	4.9 J Z	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	66 J Z	--	--	--	--	29 J Z	--
Benzo(a)anthracene (8270C SIM)	ug/kg	--	8.4 U	1.2 J Z	5.1	9.3	--	1.9 U
4-Chloro-3-Methylphenol	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
Aniline	ug/kg	510 U	510 U	530 U	550 U	510 U	510 U	580 U
Benzoic Acid	ug/kg	510 U	510 UJ L	530 U	550 U	510 UJ L	510 UJ L	580 U
Hexachloroethane	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
4-Chlorophenyl Phenylether	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
Hexachlorocyclopentadiene	ug/kg	510 U	510 U	530 U	550 U	510 U	510 U	580 U
Isophorone	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	8.6 U	8.4 U	1.8 U	1.8 U	8.5 U	8.4 U	1.9 U
Diethylphthalate (8270C)	ug/kg	170 U	170 U	--	--	170 U	170 U	--
Diethylphthalate (8270C SIM)	ug/kg	--	--	19 U	20 U	--	--	21 U
Di-n-Butylphthalate (8270C)	ug/kg	170 U	170 U	--	--	170 U	170 U	190 U
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	--	19 U	20 U	--	--	--
Phenanthrene (8270C)	ug/kg	32 J Z	--	--	--	--	39 J Z	--
Phenanthrene (8270C SIM)	ug/kg	--	8.4 U	1.0 J Z	1.8 U	8.5 U	--	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	170 U	--	--	--	170 U	170 U	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	40 J Z	19 U	20 U	--	--	21 U
N-Nitrosodiphenylamine	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	8.6 U	8.4 U	1.8 U	1.8 U	8.5 U	8.4 U	1.9 U
Carbazole	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
Pentachlorophenol	ug/kg	510 U	510 U	530 U	550 U	510 U	510 U	580 U
2,4,6-Trichlorophenol	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
2-Nitroaniline	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
2-Nitrophenol	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	8.6 U	8.4 U	1.8 U	1.8 U	8.5 U	8.4 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	8.6 U	8.4 U	1.8 U	1.8 U	8.5 U	8.4 U	1.2 J Z
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	8.6 U	8.4 U	1.8 U	1.8 U	8.5 U	8.4 U	1.9 U
2-Chloronaphthalene	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
3,3`-Dichlorobenzidine	ug/kg	340 U	340 U	360 U	370 U	340 U	340 U	390 U
Benzidine	ug/kg	3400 U	3400 U	3600 U	3700 U	3400 U	3400 U	3900 U
2-Methylphenol	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
2-Chlorophenol	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
2,4,5-Trichlorophenol	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
3-Nitroaniline	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
Benzyl Alcohol	ug/kg	510 U	510 U	530 U	550 U	510 U	510 U	580 U
2,6-Dinitrotoluene	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	170 U	180 U	180 U	170 U	170 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-136-SA6-SB-4.0-5.0	SL-136-SA6-SB-9.0-10.0	SL-138-SA6-SB-4.0-5.0	SL-138-SA6-SB-9.0-10.0	SL-139-SA6-SB-4.0-5.0	SL-139-SA6-SB-9.0-10.0	SL-142-SA6-SS-0.0-0.5
Sample Date		07/12/2011	07/12/2011	07/11/2011	07/11/2011	07/12/2011	07/12/2011	07/18/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE198	DE198	DE197	DE197	DE198	DE198	DE202
Start Depth		4	9	4	9	4	9	0
End Depth		5	10	5	10	5	10	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	8.5 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
Nitrobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
Hexachlorobutadiene	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
4-Nitroaniline	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
4-Nitrophenol	ug/kg	540 U	540 U	530 U	550 U	550 U	560 U	510 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
4-Methylphenol	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
4-Chloroaniline	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
Phenol	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	360 U	--	33 J Z	34 J Z	--	370 U	66 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	20 U B	--	--	20 U B	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	170 U
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	20 U	19 U	20 U	20 U	20 U	--
Hexachlorobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	8.5 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	75
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	170 U
Dimethylphthalate (8270C SIM)	ug/kg	20 U	20 U	19 U	20 U	20 U	20 U	--
Dibenzofuran	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	320
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	360
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1500
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	69
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	630
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	8.5 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	460
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	770

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-136-SA6-SB-4.0-5.0	SL-136-SA6-SB-9.0-10.0	SL-138-SA6-SB-4.0-5.0	SL-138-SA6-SB-9.0-10.0	SL-139-SA6-SB-4.0-5.0	SL-139-SA6-SB-9.0-10.0	SL-142-SA6-SS-0.0-0.5
Sample Date		07/12/2011	07/12/2011	07/11/2011	07/11/2011	07/12/2011	07/12/2011	07/18/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE198	DE198	DE197	DE197	DE198	DE198	DE202
Start Depth		4	9	4	9	4	9	0
End Depth		5	10	5	10	5	10	0.5
2,4-Dinitrophenol	ug/kg	1100 UJ Q	1100 U	1100 U	1100 U	1100 U	1100 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	540 U	540 U	530 U	550 U	550 U	560 U	510 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	100
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	360
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
Aniline	ug/kg	540 U	540 U	530 U	550 U	550 U	560 U	510 U
Benzoic Acid	ug/kg	540 U	540 U	530 U	550 U	550 U	560 U	510 UJ L
Hexachloroethane	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
Hexachlorocyclopentadiene	ug/kg	540 U	540 U	530 U	550 U	550 U	560 U	510 U
Isophorone	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	8.5 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	170 U
Diethylphthalate (8270C SIM)	ug/kg	20 U	20 U	19 U	20 U	20 U	20 U	--
Di-n-Butylphthalate (8270C)	ug/kg	180 U	180 U	180 U	180 U	--	190 U	170 U
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	--	--	--	20 U B	--	--
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	8.5 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	170 U
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	20 U	19 U	20 U	20 U	20 U	--
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	8.5 U
Carbazole	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
Pentachlorophenol	ug/kg	540 U	540 U	530 U	550 U	550 U	560 U	510 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
2-Nitroaniline	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
2-Nitrophenol	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	8.5 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	0.74 J Z	1.8 U	1.9 U	3.6 J Z
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	8.5 U
2-Chloronaphthalene	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
3,3`-Dichlorobenzidine	ug/kg	360 U	360 U	360 U	370 U	370 U	370 U	340 U
Benzidine	ug/kg	3600 R Q	3600 U	3600 U	3700 U	3700 U	3700 U	3400 U
2-Methylphenol	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
2-Chlorophenol	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
3-Nitroaniline	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
Benzyl Alcohol	ug/kg	540 U	540 U	530 U	550 U	550 U	560 U	510 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-143-SA6-SS-0.0-0.5	SL-145-SA6-SS-0.0-0.5	SL-145-SA6-SB-3.5-4.5	SL-146-SA6-SS-0.0-0.5	SL-147-SA6-SS-0.0-0.5	SL-148-SA6-SS-0.0-0.5	SL-149-SA6-SS-0.0-0.5
Sample Date		07/18/2011	07/18/2011	08/02/2011	07/18/2011	07/18/2011	07/18/2011	07/11/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE202	DE202	DE214	DE202	DE202	DE202	DE197
Start Depth		0	0	3.5	0	0	0	0
End Depth		0.5	0.5	4.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	8.5 U	8.4 U	1.8 U	8.4 U	8.4 U	8.5 U	17 U
2,4-Dinitrotoluene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
Nitrobenzene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
1,4-Dichlorobenzene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
1,2,4-Trichlorobenzene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
1,3-Dichlorobenzene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
Hexachlorobutadiene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
1,2-Dichlorobenzene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
4-Nitroaniline	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
4-Nitrophenol	ug/kg	510 U	510 U	540 U	500 U	500 U	510 U	510 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
2,4-Dimethylphenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
4-Methylphenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
4-Chloroaniline	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
3,5-Dimethylphenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
Phenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	340 U	26 J Z	--	340 U	340 U	340 U	340 U
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	130	--	19 U	--	--	--	340
Di-N-Octyl Phthalate (8270C)	ug/kg	170 U	170 U	--	170 U	170 U	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	--	19 U	--	--	40 J Z	64 J Z
Hexachlorobenzene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	4.8 J Z	8.4 U	1.8 U F	1.7 J Z	8.4 U	8.5 U	17 U
2,4-Dichlorophenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
1,2-Diphenylhydrazine	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
Pyrene (8270C)	ug/kg	--	61 J Z	--	30 J Z	20 J Z	--	170 U
Pyrene (8270C SIM)	ug/kg	52	--	1.8 U	--	--	3.7 J Z	20
Dimethylphthalate (8270C)	ug/kg	170 U	170 U	--	170 U	170 U	170 U	170 U
Dimethylphthalate (8270C SIM)	ug/kg	--	--	19 U	--	--	--	--
Dibenzofuran	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	17 J Z	--	--	17 J Z	--	20 J Z
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	12	--	1.8 U	7.7 J Z	--	8.5 U	--
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	10	8.4 U	1.8 U	5.5 J Z	8.4 U	8.5 U	10 J Z
Benzo(b)fluoranthene (8270C)	ug/kg	--	33 J Z	--	--	23 J Z	--	27 J Z
Benzo(b)fluoranthene (8270C SIM)	ug/kg	52	--	1.8 U	35	--	3.5 J Z	--
Fluoranthene (8270C)	ug/kg	--	55 J Z	--	--	19 J Z	--	36 J Z
Fluoranthene (8270C SIM)	ug/kg	57	--	1.8 U	29	--	4.2 J Z	--
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	22	8.4 U	1.8 U	12	8.4 U	8.5 U	8.2 J Z
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	8.5 U	8.4 U	1.8 U	8.4 U	8.4 U	8.5 U	17 U
Chrysene (8270C)	ug/kg	--	27 J Z	--	--	17 J Z	--	23 J Z
Chrysene (8270C SIM)	ug/kg	40	--	1.8 U	25	--	3.4 J Z	--
bis(2-Chloroisopropyl) ether	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	--	30 J Z	--	23 J Z	20 J Z	--	18 J Z
Benzo(a)pyrene (8270C SIM)	ug/kg	34	--	1.8 U	--	--	8.5 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-143-SA6-SS-0.0-0.5	SL-145-SA6-SS-0.0-0.5	SL-145-SA6-SB-3.5-4.5	SL-146-SA6-SS-0.0-0.5	SL-147-SA6-SS-0.0-0.5	SL-148-SA6-SS-0.0-0.5	SL-149-SA6-SS-0.0-0.5
Sample Date		07/18/2011	07/18/2011	08/02/2011	07/18/2011	07/18/2011	07/18/2011	07/11/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE202	DE202	DE214	DE202	DE202	DE202	DE197
Start Depth		0	0	3.5	0	0	0	0
End Depth		0.5	0.5	4.5	0.5	0.5	0.5	0.5
2,4-Dinitrophenol	ug/kg	1000 U	1000 U	1100 U	1000 U	1000 U	1000 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	510 U	510 U	540 U	500 U	500 U	510 U	510 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	3.7 J Z	8.4 U	1.8 U	8.4 U	8.4 U	8.5 U	17 U
Benzo(a)anthracene (8270C)	ug/kg	--	32 J Z	--	--	17 J Z	--	22 J Z
Benzo(a)anthracene (8270C SIM)	ug/kg	34	--	1.8 U	21	--	8.5 U	--
4-Chloro-3-Methylphenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
Aniline	ug/kg	510 U	510 U	540 U	500 U	500 U	510 U	510 U
Benzoic Acid	ug/kg	510 UJ L	510 UJ L	540 U	500 UJ L	500 UJ L	510 UJ L	510 U
Hexachloroethane	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
4-Chlorophenyl Phenylether	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
Hexachlorocyclopentadiene	ug/kg	510 U	510 U	540 U	500 U	500 U	510 U	510 U
Isophorone	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	8.5 U	8.4 U	1.8 U	8.4 U	8.4 U	8.5 U	17 U
Diethylphthalate (8270C)	ug/kg	170 U	170 U	--	170 U	170 U	170 U	170 U
Diethylphthalate (8270C SIM)	ug/kg	--	--	19 U	--	--	--	--
Di-n-Butylphthalate (8270C)	ug/kg	170 U	170 U	--	170 U	170 U	170 U	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	--	19 U	--	--	--	180 U B
Phenanthrene (8270C)	ug/kg	--	37 J Z	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	16	--	0.73 J Z	6.4 J Z	8.4 U	8.5 U	8.5 J Z
Butylbenzylphthalate (8270C)	ug/kg	170 U	170 U	--	170 U	170 U	170 U	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	--	19 U	--	--	--	69 J Z
N-Nitrosodiphenylamine	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	8.5 U	8.4 U	1.8 U	8.4 U	8.4 U	8.5 U	17 U
Carbazole	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
Pentachlorophenol	ug/kg	510 U	510 U	540 U	500 U	500 U	510 U	510 U
2,4,6-Trichlorophenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
2-Nitroaniline	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
2-Nitrophenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	8.5 U	8.4 U	1.8 U	8.4 U	8.4 U	8.5 U	17 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	8.5 U	8.4 U	1.8 U	8.4 U	8.4 U	8.5 U	17 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	8.5 U	8.4 U	1.8 U	8.4 U	8.4 U	8.5 U	17 U
2-Chloronaphthalene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
3,3`-Dichlorobenzidine	ug/kg	340 U	340 U	360 U	340 U	340 U	340 U	340 U
Benzidine	ug/kg	3400 U	3400 U	3600 U	3400 U	3400 U	3400 U	3400 U
2-Methylphenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
2-Chlorophenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
2,4,5-Trichlorophenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
3-Nitroaniline	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
Benzyl Alcohol	ug/kg	510 U	510 U	540 U	500 U	500 U	510 U	510 U
2,6-Dinitrotoluene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-150-SA6-SS-0.0-0.5	SL-151-SA6-SS-0.0-0.5	SL-151-SA6-SB-4.0-5.0	SL-151-SA6-SB-9.0-10.0	SL-152-SA6-SS-0.0-0.5	SL-154-SA6-SS-0.0-0.5	SL-154-SA6-SB-3.0-4.0
Sample Date		07/18/2011	07/19/2011	08/10/2011	08/10/2011	07/18/2011	07/19/2011	08/17/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE202	DE203	DE221	DE221	DE202	DE203	DE226
Start Depth		0	0	4	9	0	0	3
End Depth		0.5	0.5	5	10	0.5	0.5	4
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	8.4 U	17 U	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U
2,4-Dinitrotoluene	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
Nitrobenzene	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
1,4-Dichlorobenzene	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
1,2,4-Trichlorobenzene	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
1,3-Dichlorobenzene	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
Hexachlorobutadiene	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
1,2-Dichlorobenzene	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
4-Nitroaniline	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
4-Nitrophenol	ug/kg	500 U	500 U	530 U	560 U	500 U	510 U	530 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
2,4-Dimethylphenol	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
4-Methylphenol	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
4-Chloroaniline	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
3,5-Dimethylphenol	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
Phenol	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	29 J Z	--	--	--	88 J Z	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	180 U B	19 U	20 U	--	18 U B	19 U
Di-N-Octyl Phthalate (8270C)	ug/kg	170 U	170 U	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	--	19 U	20 U	18 U	18 U	19 U
Hexachlorobenzene	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	8.4 U	6.1 J Z	1.8 U	1.8 U	1.7 U	1.1 J Z	1.8 U
2,4-Dichlorophenol	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
1,2-Diphenylhydrazine	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	9.6	47 J Q	1.8 U	1.8 U	1.7 U	9.0	1.8 U
Dimethylphthalate (8270C)	ug/kg	170 U	170 U	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	--	--	19 U	20 U	18 U	18 U	19 U
Dibenzofuran	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	3.5 J Z	18	1.8 U	1.8 U	1.7 U	4.3	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	8.4 U	14 J Z	1.8 U	1.8 U	1.7 U	2.9	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	6.7 J Z	44 J Q	1.8 U	1.8 U	1.7 U	15	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	11	65 J Q	1.8 U	1.8 U	1.7 U	10	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	3.4 J Z	15 J Z	1.8 U	1.8 U	1.7 U	4.9	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	8.4 U	17 U	1.8 U	1.8 U	1.7 U	0.42 J Z	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	6.7 J Z	36 J Q	1.8 U	1.8 U	1.7 U	9.9	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	4.3 J Z	25	1.8 U	1.8 U	1.7 U	7.3	1.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A12
Semivolatiles-Validated Data
HSA-6

Sample Name		SL-150-SA6-SS-0.0-0.5	SL-151-SA6-SS-0.0-0.5	SL-151-SA6-SB-4.0-5.0	SL-151-SA6-SB-9.0-10.0	SL-152-SA6-SS-0.0-0.5	SL-154-SA6-SS-0.0-0.5	SL-154-SA6-SB-3.0-4.0
Sample Date		07/18/2011	07/19/2011	08/10/2011	08/10/2011	07/18/2011	07/19/2011	08/17/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE202	DE203	DE221	DE221	DE202	DE203	DE226
Start Depth		0	0	4	9	0	0	3
End Depth		0.5	0.5	5	10	0.5	0.5	4
2,4-Dinitrophenol	ug/kg	1000 U	1000 UJ Q	1100 U	1100 U	1000 U	1000 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	500 U	500 U	530 U	560 U	500 U	510 U	530 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	8.4 U	17 U	1.8 U	1.8 U	1.7 U	1.2 J Z	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	4.6 J Z	34 J Q	1.8 U	1.8 U	1.7 U	7.7	1.8 U
4-Chloro-3-Methylphenol	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
Aniline	ug/kg	500 U	500 U	530 U	560 U	500 U	510 U	530 U
Benzoic Acid	ug/kg	500 UJ L	500 U	530 U	560 U	500 UJ L	510 U	530 U
Hexachloroethane	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
4-Chlorophenyl Phenylether	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
Hexachlorocyclopentadiene	ug/kg	500 U	500 U	530 U	560 U	500 U	510 U	530 U
Isophorone	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	8.4 U	17 U	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U
Diethylphthalate (8270C)	ug/kg	170 U	170 U	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	--	--	19 U	20 U	18 U	18 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	170 U	--	--	--	--	170 U	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	180 U B	19 U	20 U	18 U	--	19 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	8.4 U	32 J Q	3.3	1.8 U	1.7 U	2.2	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	170 U	170 U	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	--	19 U	20 U	18 U	18 U	19 U
N-Nitrosodiphenylamine	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	8.4 U	17 U	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U
Carbazole	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
Pentachlorophenol	ug/kg	500 U	500 U	530 U	560 U	500 U	510 U	530 U
2,4,6-Trichlorophenol	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
2-Nitroaniline	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
2-Nitrophenol	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	8.4 U	17 U	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	8.4 U	17 U	1.8 U	1.8 U	1.7 U	0.90 J Z	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	8.4 U	17 U	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U
2-Chloronaphthalene	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
3,3`-Dichlorobenzidine	ug/kg	340 U	340 U	350 U	370 U	330 U	340 U	350 U
Benzidine	ug/kg	3400 U	3400 R Q	3500 U	3700 U	3300 U	3400 U	3500 U
2-Methylphenol	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
2-Chlorophenol	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
2,4,5-Trichlorophenol	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
3-Nitroaniline	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
Benzyl Alcohol	ug/kg	500 U	500 U	530 U	560 U	500 U	510 U	530 U
2,6-Dinitrotoluene	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	170 U	180 U	190 U	170 U	170 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-155-SA6-SS-0.0-0.5	SL-155-SA6-SB-4.0-5.0	SL-156-SA6-SS-0.0-0.5	SL-156-SA6-SB-3.0-4.0	SL-157-SA6-SS-0.0-0.5	SL-157-SA6-SB-2.0-3.0	SL-159-SA6-SS-0.0-0.5
Sample Date		07/18/2011	08/11/2011	07/20/2011	08/15/2011	07/20/2011	08/15/2011	07/20/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE202	DE222	DE204	DE224	DE204	DE224	DE204
Start Depth		0	4	0	3	0	2	0
End Depth		0.5	5	0.5	4	0.5	3	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	8.4 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U
2,4-Dinitrotoluene	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
Nitrobenzene	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
1,4-Dichlorobenzene	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
1,2,4-Trichlorobenzene	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
1,3-Dichlorobenzene	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
Hexachlorobutadiene	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
1,2-Dichlorobenzene	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
4-Nitroaniline	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
4-Nitrophenol	ug/kg	510 U	530 U	510 U	530 U	500 U	530 U	510 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
2,4-Dimethylphenol	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
4-Methylphenol	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
4-Chloroaniline	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
3,5-Dimethylphenol	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
Phenol	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	340 U	63 J Z	24 J Z	--	18 J Z	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	--	34	--	19 U	130
Di-N-Octyl Phthalate (8270C)	ug/kg	170 U	49 J Z	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	--	18 U	19 U	18 U	19 U	18 U
Hexachlorobenzene	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	8.4 U	1.7 U	1.7 U	1.8 U	0.62 J Z	1.7 U	1.7 U
2,4-Dichlorophenol	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
1,2-Diphenylhydrazine	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	23 J Z	--	--
Pyrene (8270C SIM)	ug/kg	8.4 U	1.7 U	2.3	1.8 U	--	1.7 U	1.7
Dimethylphthalate (8270C)	ug/kg	170 U	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	--	19 U	18 U	19 U	18 U	19 U	18 U
Dibenzofuran	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	3.6 J Z	1.7 U	0.69 J Z	1.8 U	2.0	1.7 U	0.92 J Z
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	8.4 U	1.7 U	1.7 U	1.8 U	1.4 J Z	1.7 U	1.7 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	7.6 J Z	1.7 U	1.9	1.8 U	5.8	1.7 U	1.8
Fluoranthene (8270C)	ug/kg	--	--	--	--	18 J Z	--	--
Fluoranthene (8270C SIM)	ug/kg	3.4 J Z	1.7 U	2.1	1.8 U	--	1.7 U	2.2
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	3.6 J Z	1.7 U	1.4 J Z	1.8 U	7.9	1.7 U	0.98 J Z
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	8.4 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	8.7	1.7 U	1.7	1.8 U	5.7	1.7 U	1.4 J Z
bis(2-Chloroisopropyl) ether	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	4.2 J Z	1.7 U	1.3 J Z	1.8 U	5.8	1.7 U	0.87 J Z

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-155-SA6-SS-0.0-0.5	SL-155-SA6-SB-4.0-5.0	SL-156-SA6-SS-0.0-0.5	SL-156-SA6-SB-3.0-4.0	SL-157-SA6-SS-0.0-0.5	SL-157-SA6-SB-2.0-3.0	SL-159-SA6-SS-0.0-0.5
Sample Date		07/18/2011	08/11/2011	07/20/2011	08/15/2011	07/20/2011	08/15/2011	07/20/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE202	DE222	DE204	DE224	DE204	DE224	DE204
Start Depth		0	4	0	3	0	2	0
End Depth		0.5	5	0.5	4	0.5	3	0.5
2,4-Dinitrophenol	ug/kg	1000 U	1100 U	1000 U	1100 U	1000 U	1100 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	510 U	530 U	510 U	530 U	500 U	530 U	510 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	8.4 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	8.4 U	1.7 U	1.0 J Z	1.8 U	3.8	1.7 U	0.83 J Z
4-Chloro-3-Methylphenol	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
Aniline	ug/kg	510 U	530 U	510 U	530 U	500 U	530 U	510 U
Benzoic Acid	ug/kg	510 UJ L	530 U	510 U	530 U	500 U	530 U	510 U
Hexachloroethane	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
4-Chlorophenyl Phenylether	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
Hexachlorocyclopentadiene	ug/kg	510 U	530 U	510 U	530 U	500 U	530 U	510 U
Isophorone	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	8.4 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U
Diethylphthalate (8270C)	ug/kg	170 U	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	--	19 U	18 U	19 U	18 U	19 U	18 U
Di-n-Butylphthalate (8270C)	ug/kg	170 U	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	19 U	18 U	19 U	18 U	19 U	18 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	8.4 U	1.7 U	0.93 J Z	1.8 U	3.8	1.7 U	1.1 J Z
Butylbenzylphthalate (8270C)	ug/kg	170 U	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	19 U	18 U	19 U	6.0 J Z	19 U	18 U
N-Nitrosodiphenylamine	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	8.4 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U
Carbazole	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
Pentachlorophenol	ug/kg	510 U	530 U	510 U	530 U	500 U	530 U	510 U
2,4,6-Trichlorophenol	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
2-Nitroaniline	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
2-Nitrophenol	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	8.4 U	1.7 UJ Q	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	8.4 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	8.4 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U
2-Chloronaphthalene	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
3,3`-Dichlorobenzidine	ug/kg	340 U	350 U	340 U	350 U	330 U	350 U	340 U
Benzidine	ug/kg	3400 U	3500 R Q	3400 U	3500 U	3300 U	3500 U	3400 U
2-Methylphenol	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
2-Chlorophenol	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
2,4,5-Trichlorophenol	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
3-Nitroaniline	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
Benzyl Alcohol	ug/kg	510 U	530 U	510 U	530 U	500 U	530 U	510 U
2,6-Dinitrotoluene	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	180 U	170 U	180 U	170 U	180 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-159-SA6-SB-4.0-5.0	SL-159-SA6-SB-7.0-8.0	SL-160-SA6-SS-0.0-0.5	SL-160-SA6-SB-4.0-5.0	SL-162-SA6-SS-0.0-0.5	SL-164-SA6-SS-0.0-0.5	SL-164-SA6-SB-4.0-5.0
Sample Date		08/16/2011	08/16/2011	07/20/2011	08/16/2011	07/20/2011	07/20/2011	08/16/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE225	DE225	DE204	DE225	DE204	DE204	DE225
Start Depth		4	7	0	4	0	0	4
End Depth		5	8	0.5	5	0.5	0.5	5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	8.3 U	1.7 U	1.8 U
2,4-Dinitrotoluene	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
Nitrobenzene	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
1,4-Dichlorobenzene	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
1,2,4-Trichlorobenzene	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
1,3-Dichlorobenzene	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
Hexachlorobutadiene	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
1,2-Dichlorobenzene	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
4-Nitroaniline	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
4-Nitrophenol	ug/kg	530 U	560 U	510 U	520 U	500 U	510 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
2,4-Dimethylphenol	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
4-Methylphenol	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
4-Chloroaniline	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
3,5-Dimethylphenol	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
Phenol	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	31 J Z	--	54 J Z	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	19 U	20 U	--	19 U	--	18 U	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	170 U	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	19 U	20 U	18 U	19 U	--	18 U	20 U
Hexachlorobenzene	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	8.3 U	1.7 U	1.8 U
2,4-Dichlorophenol	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
1,2-Diphenylhydrazine	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	95 J Z	--	--
Pyrene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	--	1.3 J Z	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	170 U	--	--
Dimethylphthalate (8270C SIM)	ug/kg	19 U	20 U	18 U	19 U	--	18 U	20 U
Dibenzofuran	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	28 J Z	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	--	1.7 U	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	22 J Z	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	--	1.7 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	36 J Z	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 UJ FD	1.8 U	--	1.3 J Z	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	80 J Z	--	--
Fluoranthene (8270C SIM)	ug/kg	1.7 U	1.9 U	0.76 J Z	1.8 U	--	1.8	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	22 J Z	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 UJ FD	1.8 U	--	0.79 J Z	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	8.3 U	1.7 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	--	41 J Z	--	--
Chrysene (8270C SIM)	ug/kg	1.7 U	1.9 U	0.48 J Z	1.8 U	--	1.0 J Z	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	35 J Z	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	--	1.7 U	1.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-159-SA6-SB-4.0-5.0	SL-159-SA6-SB-7.0-8.0	SL-160-SA6-SS-0.0-0.5	SL-160-SA6-SB-4.0-5.0	SL-162-SA6-SS-0.0-0.5	SL-164-SA6-SS-0.0-0.5	SL-164-SA6-SB-4.0-5.0
Sample Date		08/16/2011	08/16/2011	07/20/2011	08/16/2011	07/20/2011	07/20/2011	08/16/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE225	DE225	DE204	DE225	DE204	DE204	DE225
Start Depth		4	7	0	4	0	0	4
End Depth		5	8	0.5	5	0.5	0.5	5
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1000 U	1000 U	1000 U	1000 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	530 U	560 U	510 U	520 U	500 U	510 U	550 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	8.3 U	1.7 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	35 J Z	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	--	1.7 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
Aniline	ug/kg	530 U	560 U	510 U	520 U	500 U	510 U	550 U
Benzoic Acid	ug/kg	530 U	560 U	510 U	520 U	500 U	510 U	550 U
Hexachloroethane	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
4-Chlorophenyl Phenylether	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
Hexachlorocyclopentadiene	ug/kg	530 U	560 U	510 U	520 U	500 U	510 U	550 U
Isophorone	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	8.3 U	1.7 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	170 U	--	--
Diethylphthalate (8270C SIM)	ug/kg	19 U	20 U	18 U	19 U	--	18 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	170 U	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	19 U	20 U	18 U	19 U	--	18 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	76 J Z	--	--
Phenanthrene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 UJ FD	1.8 U	--	1.0 J Z	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	170 U	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	20 U	18 U	19 U	--	18 U	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	8.3 U	1.7 U	1.8 U
Carbazole	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
Pentachlorophenol	ug/kg	530 U	560 U	510 U	520 U	500 U	510 U	550 U
2,4,6-Trichlorophenol	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
2-Nitroaniline	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
2-Nitrophenol	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	8.3 U	1.7 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	8.3 U	1.7 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	8.3 U	1.7 U	1.8 U
2-Chloronaphthalene	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
3,3`-Dichlorobenzidine	ug/kg	350 U	370 U	340 U	350 U	330 U	340 U	360 U
Benzidine	ug/kg	3500 U	3700 U	3400 R Q	3500 U	3300 U	3400 U	3600 U
2-Methylphenol	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
2-Chlorophenol	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
2,4,5-Trichlorophenol	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
3-Nitroaniline	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
Benzyl Alcohol	ug/kg	530 U	560 U	510 U	520 U	500 U	510 U	550 U
2,6-Dinitrotoluene	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	180 U	190 U	170 U	170 U	170 U	170 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-164-SA6-SB-8.0-9.0	SL-165-SA6-SS-0.0-0.5	SL-166-SA6-SS-0.0-0.5	SL-166-SA6-SB-3.0-4.0	SL-167-SA6-SS-0.0-0.5	SL-167-SA6-SB-3.0-4.0	SL-168-SA6-SS-0.0-0.5
Sample Date		08/16/2011	07/20/2011	07/19/2011	08/15/2011	07/20/2011	08/15/2011	07/19/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE225	DE204	DE203	DE224	DE204	DE224	DE203
Start Depth		8	0	0	3	0	3	0
End Depth		9	0.5	0.5	4	0.5	4	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U
2,4-Dinitrotoluene	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
Nitrobenzene	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
1,4-Dichlorobenzene	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
1,2,4-Trichlorobenzene	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
1,3-Dichlorobenzene	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
Hexachlorobutadiene	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
1,2-Dichlorobenzene	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
4-Nitroaniline	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
4-Nitrophenol	ug/kg	570 U	510 U	500 U	520 U	500 U	540 U	500 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
2,4-Dimethylphenol	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
4-Methylphenol	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
4-Chloroaniline	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
3,5-Dimethylphenol	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
Phenol	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	440	--	110 J Z	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	18 U	--	19 U	--	19 U	35 U B
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	18 U	18 U	19 U	18 U	19 U	18 U
Hexachlorobenzene	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	1.7 U	0.50 J Z	1.7 U	0.49 J Z	1.8 U	0.70 J Z
2,4-Dichlorophenol	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
1,2-Diphenylhydrazine	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	1.2 J Z	5.4	1.7 U	5.3	1.8 U	1.2 J Z
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	18 U	18 U	19 U	18 U	19 U	18 U
Dibenzofuran	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.7 U	2.0	1.7 U	1.9	1.0 J Z	2.6
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.3 J Z	1.7 U	1.1 J Z	1.8 U	1.7 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.6 J Z	5.0	1.7 U	4.6	1.4 J Z	8.6
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	1.7	6.8	1.7 U	6.6	0.74 J Z	2.8
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	0.68 J Z	2.0	1.7 U	1.9	1.8 U	27
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	2.5	3.5	1.7 U	4.8	0.55 J Z	4.7
bis(2-Chloroisopropyl) ether	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.7 U	2.9	1.7 U	2.8	1.8 U	41

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-164-SA6-SB-8.0-9.0	SL-165-SA6-SS-0.0-0.5	SL-166-SA6-SS-0.0-0.5	SL-166-SA6-SB-3.0-4.0	SL-167-SA6-SS-0.0-0.5	SL-167-SA6-SB-3.0-4.0	SL-168-SA6-SS-0.0-0.5
Sample Date		08/16/2011	07/20/2011	07/19/2011	08/15/2011	07/20/2011	08/15/2011	07/19/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE225	DE204	DE203	DE224	DE204	DE224	DE203
Start Depth		8	0	0	3	0	3	0
End Depth		9	0.5	0.5	4	0.5	4	0.5
2,4-Dinitrophenol	ug/kg	1100 U	1000 U	1000 U	1000 U	1000 U	1100 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	570 U	510 U	500 U	520 U	500 U	540 U	500 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.7 U	2.7	1.7 U	2.6	1.8 U	1.1 J Z
4-Chloro-3-Methylphenol	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
Aniline	ug/kg	570 U	510 U	500 U	520 U	500 U	540 U	500 U
Benzoic Acid	ug/kg	570 U	510 U	500 U	520 U	500 U	540 U	500 U
Hexachloroethane	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
4-Chlorophenyl Phenylether	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
Hexachlorocyclopentadiene	ug/kg	570 U	510 U	500 U	520 U	500 U	540 U	500 U
Isophorone	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	18 U	18 U	19 U	18 U	19 U	18 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	270	--	--	--	17 J Z
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	18 U	--	19 U	18 U	19 U	--
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	0.76 J Z	2.8	1.7 U	2.8	1.8 U	0.82 J Z
Butylbenzylphthalate (8270C)	ug/kg	--	--	41000	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	18 U	--	19 U	18 U	19 U	18 U
N-Nitrosodiphenylamine	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U
Carbazole	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
Pentachlorophenol	ug/kg	570 U	510 U	500 U	520 U	500 U	540 U	500 U
2,4,6-Trichlorophenol	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
2-Nitroaniline	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
2-Nitrophenol	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	0.74 J Z
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U
2-Chloronaphthalene	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
3,3`-Dichlorobenzidine	ug/kg	380 U	340 U	340 U	350 U	340 U	360 U	340 U
Benzidine	ug/kg	3800 U	3400 U	3400 U	3500 U	3400 U	3600 U	3400 U
2-Methylphenol	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
2-Chlorophenol	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
2,4,5-Trichlorophenol	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
3-Nitroaniline	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
Benzyl Alcohol	ug/kg	570 U	510 U	500 U	520 U	500 U	540 U	500 U
2,6-Dinitrotoluene	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	190 U	170 U	170 U	170 U	170 U	180 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-168-SA6-SB-2.0-3.0	SL-169-SA6-SS-0.0-0.5	SL-171-SA6-SS-0.0-0.5	SL-171-SA6-SB-4.0-5.0	SL-172-SA6-SS-0.0-0.5	SL-174-SA6-SS-0.0-0.5	SL-174-SA6-SB-2.0-3.0
Sample Date		08/12/2011	07/19/2011	07/19/2011	08/12/2011	07/19/2011	07/19/2011	08/11/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE223	DE203	DE203	DE223	DE203	DE203	DE222
Start Depth		2	0	0	4	0	0	2
End Depth		3	0.5	0.5	5	0.5	0.5	3
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U
2,4-Dinitrotoluene	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
Nitrobenzene	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
1,4-Dichlorobenzene	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
1,2,4-Trichlorobenzene	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
1,3-Dichlorobenzene	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
Hexachlorobutadiene	ug/kg	170 U	170 U	170 U	2.0 U B	180 U	170 U	170 U
1,2-Dichlorobenzene	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
4-Nitroaniline	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
4-Nitrophenol	ug/kg	520 U	500 U	510 U	550 U	540 U	510 U	520 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
2,4-Dimethylphenol	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
4-Methylphenol	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
4-Chloroaniline	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
3,5-Dimethylphenol	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
Phenol	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	30 J Z	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	10 J Z	19 U B	--	20 U	20 U B	18 U B	19 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	19 U	18 U	18 U	20 U	20 U	18 U	19 U
Hexachlorobenzene	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.7 U	8.1	1.7 U	1.8 U	0.49 J Z	1.5 J Z	1.7 U
2,4-Dichlorophenol	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
1,2-Diphenylhydrazine	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
Pyrene (8270C)	ug/kg	--	48 J Z	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.7 U	--	1.2 J Z	1.8 U	0.79 J Z	0.94 J Z	1.7 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	19 U	18 U	18 U	20 U	20 U	18 U	19 U
Dibenzofuran	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.7 U	4.0	1.7	1.8 U	1.8	1.7 U	1.7 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.7 U	1.6 J Z	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	17 J Z	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	0.88 J Z	--	1.5 J Z	1.8 U	2.6	1.3 J Z	1.7 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.7 U	65	2.0	1.8 U	1.8 U	1.2 J Z	1.7 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.7 U	3.8	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.7 U	2.0	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U
Chrysene (8270C)	ug/kg	--	24 J Z	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	0.39 J Z	--	2.2	1.8 U	1.1 J Z	0.84 J Z	1.7 U
bis(2-Chloroisopropyl) ether	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.7 U	3.1	1.7 U	1.8 U	1.1 J Z	1.7 U	1.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-168-SA6-SB-2.0-3.0	SL-169-SA6-SS-0.0-0.5	SL-171-SA6-SS-0.0-0.5	SL-171-SA6-SB-4.0-5.0	SL-172-SA6-SS-0.0-0.5	SL-174-SA6-SS-0.0-0.5	SL-174-SA6-SB-2.0-3.0
Sample Date		08/12/2011	07/19/2011	07/19/2011	08/12/2011	07/19/2011	07/19/2011	08/11/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE223	DE203	DE203	DE223	DE203	DE203	DE222
Start Depth		2	0	0	4	0	0	2
End Depth		3	0.5	0.5	5	0.5	0.5	3
2,4-Dinitrophenol	ug/kg	1000 UJ L	1000 U	1000 U	1100 UJ Q, L	1100 U	1000 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	520 UJ L	500 U	510 U	550 UJ L	540 U	510 U	520 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.7 U	6.2	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U
4-Chloro-3-Methylphenol	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
Aniline	ug/kg	520 U	500 U	510 U	550 U	540 U	510 U	520 U
Benzoic Acid	ug/kg	520 UJ L	500 U	510 U	550 UJ L	540 U	510 U	520 U
Hexachloroethane	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
4-Chlorophenyl Phenylether	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
Hexachlorocyclopentadiene	ug/kg	520 U	500 U	510 U	550 U	540 U	510 U	520 U
Isophorone	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	7.4 J Z	18 U	18 U	11 J Q, Z	20 U	18 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	--	170 U	170 U	--	180 U	170 U	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	19 U	--	--	20 U	--	--	19 U
Phenanthrene (8270C)	ug/kg	--	22 J Z	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.7 U	--	1.3 J Z	1.8 U	1.8 U	0.75 J Z	1.7 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	18 U	18 U	20 U	20 U	18 U	19 U
N-Nitrosodiphenylamine	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U
Carbazole	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
Pentachlorophenol	ug/kg	520 UJ L	500 U	510 U	550 UJ L	540 U	510 U	520 U
2,4,6-Trichlorophenol	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
2-Nitroaniline	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
2-Nitrophenol	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.9	0.70 J Z	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	0.96 J Z	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U
2-Chloronaphthalene	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
3,3`-Dichlorobenzidine	ug/kg	350 U	340 U	340 U	370 U	360 U	340 U	340 U
Benzidine	ug/kg	3500 U	3400 U	3400 U	3700 R Q	3600 U	3400 U	3400 U
2-Methylphenol	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
2-Chlorophenol	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
2,4,5-Trichlorophenol	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
3-Nitroaniline	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
Benzyl Alcohol	ug/kg	520 U	500 U	510 U	550 U	540 U	510 U	520 U
2,6-Dinitrotoluene	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	170 U	170 U	180 U	180 U	170 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-176-SA6-SS-0.0-0.5	SL-178-SA6-SS-0.0-0.5	SL-182-SA6-SS-0.0-0.5	SL-182-SA6-SB-4.0-5.0	SL-182-SA6-SB-9.0-10.0	SL-183-SA6-SS-0.0-0.5	SL-183-SA6-SB-4.0-5.0
Sample Date		07/18/2011	07/19/2011	07/18/2011	08/10/2011	08/10/2011	07/18/2011	08/10/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE202	DE203	DE202	DE221	DE221	DE202	DE221
Start Depth		0	0	0	4	9	0	4
End Depth		0.5	0.5	0.5	5	10	0.5	5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	8.4 U	1.7 U	8.4 U	1.8 U	1.9 U	8.4 U	1.8 U
2,4-Dinitrotoluene	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
Nitrobenzene	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
1,4-Dichlorobenzene	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
1,2,4-Trichlorobenzene	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
1,3-Dichlorobenzene	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
Hexachlorobutadiene	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
1,2-Dichlorobenzene	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
4-Nitroaniline	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
4-Nitrophenol	ug/kg	500 U	500 U	500 U	530 U	560 U	500 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
2,4-Dimethylphenol	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
4-Methylphenol	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
4-Chloroaniline	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
3,5-Dimethylphenol	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
Phenol	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	18 J Z	--	17 J Z	--	--	17 J Z	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	66 U B	--	19 U	20 U	--	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	170 U	--	170 U	--	--	170 U	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	100	--	19 U	20 U	--	20 U
Hexachlorobenzene	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	8.4 U	29	8.4 U	1.8 U	1.9 U	8.4 U	1.8 U
2,4-Dichlorophenol	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
1,2-Diphenylhydrazine	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
Pyrene (8270C)	ug/kg	--	--	40 J Z	--	--	--	--
Pyrene (8270C SIM)	ug/kg	5.1 J Z	200	--	1.8 U	1.9 U	8.4 U	1.8 U
Dimethylphthalate (8270C)	ug/kg	170 U	--	170 U	--	--	170 U	--
Dimethylphthalate (8270C SIM)	ug/kg	--	18 U	--	19 U	20 U	--	20 U
Dibenzofuran	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	87 J Z	48 J Z	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	8.4 U	--	--	1.8 U	1.9 U	8.4 U	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	76 J Z	35 J Z	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	8.4 U	--	--	1.8 U	1.9 U	8.4 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	57 J Z	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	5.0 J Z	360	--	1.8 U	1.9 U	8.4 U	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	39 J Z	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	5.9 J Z	350	--	1.8 U	1.9 U	8.4 U	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	21 J Z	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	8.4 U	160	--	1.8 U	1.9 U	8.4 U	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	8.4 U	59	8.4 U	1.8 U	1.9 U	8.4 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	33 J Z	--	--	--	--
Chrysene (8270C SIM)	ug/kg	4.8 J Z	230	--	1.8 U	1.9 U	2.0 J Z	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	34 J Z	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	8.4 U	190	--	1.8 U	1.9 U	8.4 U	1.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-176-SA6-SS-0.0-0.5	SL-178-SA6-SS-0.0-0.5	SL-182-SA6-SS-0.0-0.5	SL-182-SA6-SB-4.0-5.0	SL-182-SA6-SB-9.0-10.0	SL-183-SA6-SS-0.0-0.5	SL-183-SA6-SB-4.0-5.0
Sample Date		07/18/2011	07/19/2011	07/18/2011	08/10/2011	08/10/2011	07/18/2011	08/10/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE202	DE203	DE202	DE221	DE221	DE202	DE221
Start Depth		0	0	0	4	9	0	4
End Depth		0.5	0.5	0.5	5	10	0.5	5
2,4-Dinitrophenol	ug/kg	1000 U	1000 U	1000 U	1100 U	1100 U	1000 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	500 U	500 U	500 U	530 U	560 U	500 U	550 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	8.4 U	20	8.4 U	1.8 U	1.9 U	8.4 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	18 J Z	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	8.4 U	210	--	1.8 U	1.9 U	8.4 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
Aniline	ug/kg	500 U	500 U	500 U	530 U	560 U	500 U	550 U
Benzoic Acid	ug/kg	500 UJ L	500 U	500 UJ L	530 U	560 U	500 UJ L	550 U
Hexachloroethane	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
4-Chlorophenyl Phenylether	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
Hexachlorocyclopentadiene	ug/kg	500 U	500 U	500 U	530 U	560 U	500 U	550 U
Isophorone	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	8.4 U	2.7	8.4 U	1.8 U	1.9 U	8.4 U	1.8 U
Diethylphthalate (8270C)	ug/kg	170 U	--	170 U	--	--	170 U	--
Diethylphthalate (8270C SIM)	ug/kg	--	18 U	--	19 U	20 U	--	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	170 U	--	--	170 U	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	46 J Z	28 U B	--	19 U	20 U	--	20 U
Phenanthrene (8270C)	ug/kg	--	--	18 J Z	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	8.4 U	25	--	1.8 U	1.9 U	8.4 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	170 U	19 J Z	170 U	--	--	170 U	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	--	--	19 U	20 U	--	20 U
N-Nitrosodiphenylamine	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	8.4 U	1.4 J Z	8.4 U	1.8 U	1.9 U	8.4 U	1.8 U
Carbazole	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
Pentachlorophenol	ug/kg	500 U	500 U	500 U	530 U	560 U	500 U	550 U
2,4,6-Trichlorophenol	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
2-Nitroaniline	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
2-Nitrophenol	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	8.4 U	1.7 U	8.4 U	1.8 U	1.9 U	8.4 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	8.4 U	1.7	8.4 U	1.8 U	1.9 U	8.4 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	8.4 U	1.7 U	8.4 U	1.8 U	1.9 U	8.4 U	1.8 U
2-Chloronaphthalene	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
3,3`-Dichlorobenzidine	ug/kg	340 U	340 U	340 U	360 U	380 U	340 U	370 U
Benzidine	ug/kg	3400 U	3400 U	3400 U	3600 U	3800 U	3400 U	3700 U
2-Methylphenol	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
2-Chlorophenol	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
2,4,5-Trichlorophenol	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
3-Nitroaniline	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
Benzyl Alcohol	ug/kg	500 U	500 U	500 U	530 U	560 U	500 U	550 U
2,6-Dinitrotoluene	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	170 U	170 U	180 U	190 U	170 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-183-SA6-SB-9.0-10.0	SL-184-SA6-SS-0.0-0.5	SL-185-SA6-SS-0.0-0.5	SL-185-SA6-SB-4.0-5.0	SL-185-SA6-SB-9.0-10.0	SL-190-SA6-SS-0.0-0.5	SL-191-SA6-SB-0.0-1.0
Sample Date		08/10/2011	07/18/2011	07/19/2011	08/10/2011	08/10/2011	07/25/2011	10/04/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE221	DE202	DE203	DE221	DE221	DE208	DE261
Start Depth		9	0	0	4	9	0	0
End Depth		10	0.5	0.5	5	10	0.5	1
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	33.3 U	33.3 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.7 U	1.7 U	1.9 U	1.9 U	1.7 U	1.7 U
2,4-Dinitrotoluene	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
Nitrobenzene	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
1,4-Dichlorobenzene	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
1,2,4-Trichlorobenzene	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
1,3-Dichlorobenzene	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
Hexachlorobutadiene	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
1,2-Dichlorobenzene	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
4-Nitroaniline	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
4-Nitrophenol	ug/kg	560 U	500 U	520 U	550 U	560 U	510 U	500 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
2,4-Dimethylphenol	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
4-Methylphenol	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
4-Chloroaniline	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
3,5-Dimethylphenol	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
Phenol	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	31 J Z	--	--	--	--	190 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	--	19 U B	20 U	20 U	17 J L, Z	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	18 U	19 U	20 U	20 U	13 J L, Z	18 U
Hexachlorobenzene	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.7 U	1.9 U	1.9 U	0.70 J L, Z	0.74 J Z
2,4-Dichlorophenol	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
1,2-Diphenylhydrazine	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	1.1 J Z	1.3 J Z	1.9 U	1.9 U	4.8	6.5
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	0.259 UJ B, Q
Dimethylphthalate (8270C SIM)	ug/kg	20 U	18 U	19 U	20 U	20 U	18 U	18 U
Dibenzofuran	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.1 J Z	1.9 U	1.9 U	1.1 J L, Z	3.8
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.7 U	1.9 U	1.9 U	0.91 J L, Z	2.6
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	0.97 J Z	2.1	1.9 U	1.9 U	5.3 J L	12
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	1.3 J Z	1.4 J Z	1.9 U	1.9 U	5.4 J L	6.8
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.7 U	1.9 U	1.9 U	2.3 J L	5.5
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.7 U	1.9 U	1.9 U	1.7 U	0.42 J Z
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	0.99 J Z	2.4	1.9 U	1.9 U	7.8 J L	7.2
bis(2-Chloroisopropyl) ether	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.7 U	0.82 J Z	1.9 U	1.9 U	1.9 J L	5.2

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-183-SA6-SB-9.0-10.0	SL-184-SA6-SS-0.0-0.5	SL-185-SA6-SS-0.0-0.5	SL-185-SA6-SB-4.0-5.0	SL-185-SA6-SB-9.0-10.0	SL-190-SA6-SS-0.0-0.5	SL-191-SA6-SB-0.0-1.0
Sample Date		08/10/2011	07/18/2011	07/19/2011	08/10/2011	08/10/2011	07/25/2011	10/04/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE221	DE202	DE203	DE221	DE221	DE208	DE261
Start Depth		9	0	0	4	9	0	0
End Depth		10	0.5	0.5	5	10	0.5	1
2,4-Dinitrophenol	ug/kg	1100 U	1000 U	1000 U	1100 U	1100 U	1000 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	500 U	520 U	550 U	560 U	510 U	500 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.7 U	1.9 U	1.9 U	1.7 U	1.6 J Z
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.7 U	1.9 U	1.9 U	1.8	3.2
4-Chloro-3-Methylphenol	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
Aniline	ug/kg	560 U	500 U	520 U	550 U	560 U	510 U	500 U
Benzoic Acid	ug/kg	560 U	500 UJ L	520 U	550 U	560 U	510 U	500 U
Hexachloroethane	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
4-Chlorophenyl Phenylether	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
Hexachlorocyclopentadiene	ug/kg	560 U	500 U	520 U	550 U	560 U	510 U	500 U
Isophorone	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.7 U	1.9 U	1.9 U	1.7 U	1.7 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	18 U	19 U	20 U	20 U	18 U	18 U
Di-n-Butylphthalate (8270C)	ug/kg	--	21 J Z	170 U	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	--	--	20 U	20 U	6.3 J L, Z	18 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	0.85 J Z	1.7	1.9 U	1.9 U	4.0 J L	2.2
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	18 U	19 U	20 U	20 U	18 R L	18 U
N-Nitrosodiphenylamine	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.7 U	1.9 U	1.9 U	1.7 U	1.7 U
Carbazole	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
Pentachlorophenol	ug/kg	560 U	500 U	520 U	550 U	560 U	510 U	500 U
2,4,6-Trichlorophenol	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
2-Nitroaniline	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
2-Nitrophenol	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.7 U	1.9 U	1.9 U	1.6 J Z	1.7 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.7 U	1.9 U	1.9 U	4.5	0.78 J Z
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.7 U	1.9 U	1.9 U	1.8	1.7 U
2-Chloronaphthalene	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
3,3`-Dichlorobenzidine	ug/kg	370 U	340 U	350 U	370 U	370 U	340 U	330 U
Benzidine	ug/kg	3700 U	3400 U	3500 U	3700 U	3700 U	3400 U	3300 U
2-Methylphenol	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
2-Chlorophenol	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
2,4,5-Trichlorophenol	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
3-Nitroaniline	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
Benzyl Alcohol	ug/kg	560 U	500 U	520 U	550 U	560 U	510 U	500 U
2,6-Dinitrotoluene	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	190 U	170 U	170 U	180 U	190 U	170 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-192-SA6-SS-0.0-0.5	SL-192-SA6-SB-4.0-5.0	SL-192-SA6-SB-9.0-10.0	SL-193-SA6-SS-0.0-0.5	SL-195-SA6-SB-1.0-2.0	SL-197-SA6-SB-4.0-5.0	SL-198-SA6-SB-4.0-5.0
Sample Date		07/25/2011	08/29/2011	08/29/2011	07/25/2011	08/25/2011	08/24/2011	08/31/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE208	DE234	DE234	DE208	DE232	DE231	DE236
Start Depth		0	4	9	0	1	4	4
End Depth		0.5	5	10	0.5	2	5	5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	33.4 U	35.4 U	35.7 U	33.3 U B	34.2 U	36.3 U	34.6 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U	1.7 U
2,4-Dinitrotoluene	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
Nitrobenzene	ug/kg	170 U	180 U	180 U	5.72 U B	170 U	180 U	170 U
1,4-Dichlorobenzene	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
1,2,4-Trichlorobenzene	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
1,3-Dichlorobenzene	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
Hexachlorobutadiene	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
1,2-Dichlorobenzene	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
4-Nitroaniline	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
4-Nitrophenol	ug/kg	510 U	530 U	530 U	510 U	520 U	540 U	520 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
2,4-Dimethylphenol	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
4-Methylphenol	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
4-Chloroaniline	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
3,5-Dimethylphenol	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
Phenol	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	340 U	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	28 J L	9.0 J L, Z	19 U	--	19 U	20 U	19 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	11 J L, Z	19 U	19 U	79 J L, Z	19 U	20 U	19 U
Hexachlorobenzene	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.7 UJ L	1.8 U	1.8 U	8.4 UJ L	1.0 J Z	1.8 U	1.7 U
2,4-Dichlorophenol	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
1,2-Diphenylhydrazine	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.7 U	1.4 J Z	1.6 J Z	8.4 U	0.95 J Z	1.8 U	1.7 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	170 U	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	18 U	19 U	19 U	--	19 U	20 U	19 U
Dibenzofuran	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.8 U	8.4 U	0.72 J Z	1.8 U	1.7 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.8 U	8.4 U	0.80 J Z	1.8 U	1.7 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.7 U	1.1 J L, Z	0.84 J L, Z	8.4 U	1.4 J Z	1.8 U	0.91 J Z
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.7 UJ L	1.2 J Z	2.2	8.4 UJ L	1.0 J Z	1.8 U	1.7 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.7 U	0.78 J Z	1.8 U	8.4 U	1.1 J Z	1.8 U	1.7 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.7 U	0.81 J Z	1.8 U	8.4 U	0.41 J Z	1.8 U	1.7 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	0.38 J L, Z	1.1 J Z	0.75 J Z	3.8 J L, Z	0.93 J Z	1.8 U	1.7 U
bis(2-Chloroisopropyl) ether	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.7 U	0.78 J L, Z	1.8 U	8.4 U	1.7 U	1.8 U	1.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A12
Semivolatiles-Validated Data
HSA-6

Sample Name		SL-192-SA6-SS-0.0-0.5	SL-192-SA6-SB-4.0-5.0	SL-192-SA6-SB-9.0-10.0	SL-193-SA6-SS-0.0-0.5	SL-195-SA6-SB-1.0-2.0	SL-197-SA6-SB-4.0-5.0	SL-198-SA6-SB-4.0-5.0
Sample Date		07/25/2011	08/29/2011	08/29/2011	07/25/2011	08/25/2011	08/24/2011	08/31/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE208	DE234	DE234	DE208	DE232	DE231	DE236
Start Depth		0	4	9	0	1	4	4
End Depth		0.5	5	10	0.5	2	5	5
2,4-Dinitrophenol	ug/kg	1000 U	1100 U	1100 U	1000 U	1000 U	1100 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	510 U	530 U	530 U	510 U	520 U	540 U	520 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.8 U	8.4 U	0.75 J Z	1.8 U	1.7 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U	1.7 U
4-Chloro-3-Methylphenol	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
Aniline	ug/kg	510 U	530 U	530 U	510 U	520 U	540 U	520 U
Benzoic Acid	ug/kg	510 U	530 U	530 U	510 U	520 U	540 U	520 U
Hexachloroethane	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
4-Chlorophenyl Phenylether	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
Hexachlorocyclopentadiene	ug/kg	510 U	530 U	530 U	510 U	520 U	540 U	520 U
Isophorone	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U	1.7 U
Diethylphthalate (8270C)	ug/kg	--	--	--	170 U	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	18 U	19 U	19 U	--	19 U	20 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	170 U	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	18 UJ L	20 J L	19 U	--	19 U	20 U	19 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.7 U	0.81 J Z	1.8 U	8.4 U	1.0 J Z	1.8 U	1.7 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	170 U	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	18 R L	19 U	19 U	--	19 U	20 U	19 U
N-Nitrosodiphenylamine	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.8 U	8.4 U	0.92 J Z	1.8 U	1.7 U
Carbazole	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
Pentachlorophenol	ug/kg	510 U	530 U	530 U	510 U	520 U	540 U	520 U
2,4,6-Trichlorophenol	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
2-Nitroaniline	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
2-Nitrophenol	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U	1.7 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U	1.7 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U	1.7 U
2-Chloronaphthalene	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
3,3`-Dichlorobenzidine	ug/kg	340 U	350 U	360 U	340 U	340 U	360 U	350 U
Benzidine	ug/kg	3400 U	3500 U	3600 U	3400 U	3400 U	3600 U	3500 U
2-Methylphenol	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
2-Chlorophenol	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
2,4,5-Trichlorophenol	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
3-Nitroaniline	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
Benzyl Alcohol	ug/kg	510 U	530 U	530 U	510 U	520 U	540 U	520 U
2,6-Dinitrotoluene	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	180 U	180 U	170 U	170 U	180 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-198-SA6-SB-9.0-10.0	SL-199-SA6-SB-4.0-5.0	SL-200-SA6-SB-4.0-5.0	SL-201-SA6-SB-2.0-3.0	SL-204-SA6-SS-0.0-0.5	SL-204-SA6-SB-4.0-5.0	SL-205-SA6-SS-0.0-0.5
Sample Date		08/31/2011	08/31/2011	08/31/2011	08/31/2011	07/26/2011	09/06/2011	07/26/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE236	DE236	DE236	DE236	DE209	DE238	DE209
Start Depth		9	4	4	2	0	4	0
End Depth		10	5	5	3	0.5	5	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	36.5 U	36.3 U	37.0 U	34.3 U	33.4 U	35.8 U	340 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.7 U	1.7 U	1.8 U	8.6 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
Nitrobenzene	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
Hexachlorobutadiene	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
4-Nitroaniline	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
4-Nitrophenol	ug/kg	550 U	540 U	550 U	520 U	510 U	540 U	510 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
4-Methylphenol	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
4-Chloroaniline	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
Phenol	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	23 J Z	--	--	--	--	45 J FD, Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	7.2 J Z	--	20 U	19 U	28	12 J L, Z	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	170 U
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	20 U	20 U	19 U	11 J Z	20 U	--
Hexachlorobenzene	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.0 J Z	1.8 U	1.9 U	1.7 U	3.1	1.8 U	8.6 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	20 J Z
Pyrene (8270C SIM)	ug/kg	4.4	1.8 U	1.9 U	1.7 U	29	1.2 J Z	--
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	170 U
Dimethylphthalate (8270C SIM)	ug/kg	20 U	20 U	20 U	19 U	18 U	20 U	--
Dibenzofuran	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.5 J Z	1.8 U	1.9 U	1.7 U	4.2	1.8 U	6.0 J FD, Z
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.3 J Z	1.8 U	1.9 U	1.7 U	4.2	1.8 U	8.6 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	18 J Z
Benzo(b)fluoranthene (8270C SIM)	ug/kg	3.9	1.8 U	1.9 U	1.7 U	23	1.3 J Z	--
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	20 J Z
Fluoranthene (8270C SIM)	ug/kg	6.0	1.8 U	1.9 U	1.7 U	46	1.4 J Z	--
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9	1.8 U	1.9 U	1.7 U	9.1	1.8 U	8.6 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.7 U	1.1 J Z	1.8 U	8.6 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	23 J Z
Chrysene (8270C SIM)	ug/kg	3.1	1.8 U	1.9 U	1.7 U	23	0.83 J Z	--
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	2.4	1.8 U	1.9 U	1.7 U	8.5	1.8 U	8.6 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-198-SA6-SB-9.0-10.0	SL-199-SA6-SB-4.0-5.0	SL-200-SA6-SB-4.0-5.0	SL-201-SA6-SB-2.0-3.0	SL-204-SA6-SS-0.0-0.5	SL-204-SA6-SB-4.0-5.0	SL-205-SA6-SS-0.0-0.5
Sample Date		08/31/2011	08/31/2011	08/31/2011	08/31/2011	07/26/2011	09/06/2011	07/26/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE236	DE236	DE236	DE236	DE209	DE238	DE209
Start Depth		9	4	4	2	0	4	0
End Depth		10	5	5	3	0.5	5	0.5
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 U	1000 U	1000 U	1100 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	540 U	550 U	520 U	510 U	540 U	510 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.7 U	1.3 J Z	1.8 U	8.6 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	3.0	1.8 U	1.9 U	1.7 U	9.2	1.8 U	8.6 U
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
Aniline	ug/kg	550 U	540 U	550 U	520 U	510 U	540 U	510 U
Benzoic Acid	ug/kg	550 U	540 U	550 U	520 U	510 U	540 U	510 U
Hexachloroethane	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
Hexachlorocyclopentadiene	ug/kg	550 U	540 U	550 U	520 U	510 U	540 U	510 U
Isophorone	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.7 U	1.7 U	1.8 U	8.6 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	170 U
Diethylphthalate (8270C SIM)	ug/kg	20 U	20 U	20 U	19 U	18 U	20 U	--
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	170 U
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	20 U	20 U	19 U	16 J Z	20 U	--
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	3.4	1.8 U	1.9 U	1.7 U	16	1.8 U	4.4 J Z
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	170 U
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	20 U	20 U	19 U	7.3 J Z	20 U	--
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.7 U	1.7 U	1.8 U	8.6 U
Carbazole	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
Pentachlorophenol	ug/kg	550 U	540 U	550 U	520 U	510 U	540 U	510 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
2-Nitroaniline	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
2-Nitrophenol	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.7 U	1.7 U	1.8 U	8.6 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.7 U	0.89 J Z	1.8 U	8.6 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.7 U	1.7 U	1.8 U	8.6 U
2-Chloronaphthalene	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
3,3`-Dichlorobenzidine	ug/kg	360 U	360 U	370 U	350 U	340 U	360 U	340 U
Benzidine	ug/kg	3600 U	3600 U	3700 U	3500 U	3400 U	3600 U	3400 R Q
2-Methylphenol	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
2-Chlorophenol	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
3-Nitroaniline	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
Benzyl Alcohol	ug/kg	550 U	540 U	550 U	520 U	510 U	540 U	510 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	180 U	180 U	180 U	170 U	170 U	180 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-205-SA6-SB-4.0-5.0	SL-206-SA6-SS-0.0-0.5	SL-206-SA6-SB-4.0-5.0	SL-208-SA6-SB-4.0-5.0	SL-210-SA6-SB-4.0-5.0	SL-210-SA6-SB-9.0-10.0	SL-211-SA6-SS-0.0-0.5
Sample Date		09/07/2011	07/26/2011	10/04/2011	08/24/2011	09/09/2011	09/09/2011	07/21/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE239	DE209	DE261	DE231	DE240	DE240	DE205
Start Depth		4	0	4	4	4	9	0
End Depth		5	0.5	5	5	5	10	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	37.1 U	349 U	35.3 U	36.3 U	36.1 U	34.5 J Z	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
Nitrobenzene	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 UJ Q
1,3-Dichlorobenzene	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
Hexachlorobutadiene	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
1,2-Dichlorobenzene	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 UJ Q
4-Nitroaniline	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
4-Nitrophenol	ug/kg	560 U	530 U	530 U	540 U	550 U	550 U	510 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
2,4-Dimethylphenol	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
4-Methylphenol	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
4-Chloroaniline	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
3,5-Dimethylphenol	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
Phenol	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	91 J Z	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	--	19 U	20 U	19 U	20 U	140
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	15 J Z	19 U	20 U	19 U	20 U	18 U
Hexachlorobenzene	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 UJ Q
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	0.48 J Z	1.7 U	1.8 U	1.8 U	1.8 U	3.2 J Q
2,4-Dichlorophenol	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	76 J Q, Z
Pyrene (8270C SIM)	ug/kg	1.9 U	4.0	1.7 U	1.8 U	1.8 U	1.8 U	--
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	19 U	19 U	20 U	19 U	20 U	18 U
Dibenzofuran	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	20 J Z
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.6 J Z	1.7 U	1.8 U	1.8 U	1.8 U	--
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	22 J Z
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.2 J Z	1.7 U	1.8 U	1.8 U	1.8 U	--
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	44 J Z
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	5.5	1.7 U	1.8 U	1.8 U	1.8 U	--
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	81 J Q, Z
Fluoranthene (8270C SIM)	ug/kg	1.9 U	5.4	1.7 U	1.8 U	1.8 U	1.8 U	--
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	2.3	1.7 U	1.8 U	1.8 U	1.8 U	15 J Q
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	0.72 J Z
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	4.8	1.7 U	1.8 U	1.8 U	1.8 U	40 J Q
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	19 J Z
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	2.5	1.7 U	1.8 U	1.8 U	1.8 U	--

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R - Result is rejected

Sample Name		SL-205-SA6-SB-4.0-5.0	SL-206-SA6-SS-0.0-0.5	SL-206-SA6-SB-4.0-5.0	SL-208-SA6-SB-4.0-5.0	SL-210-SA6-SB-4.0-5.0	SL-210-SA6-SB-9.0-10.0	SL-211-SA6-SS-0.0-0.5
Sample Date		09/07/2011	07/26/2011	10/04/2011	08/24/2011	09/09/2011	09/09/2011	07/21/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE239	DE209	DE261	DE231	DE240	DE240	DE205
Start Depth		4	0	4	4	4	9	0
End Depth		5	0.5	5	5	5	10	0.5
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 U	1100 U	1100 U	1100 U	1000 R Q
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	530 U	530 U	540 U	550 U	550 U	510 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 J C
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	2.3	1.7 U	1.8 U	1.8 U	1.8 U	16 J Q
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
Aniline	ug/kg	560 U	530 U	530 U	540 U	550 U	550 U	510 U
Benzoic Acid	ug/kg	560 U	530 U	530 U	540 U	550 U	550 U	510 UJ C
Hexachloroethane	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 UJ Q
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 UJ Q
Hexachlorocyclopentadiene	ug/kg	560 U	530 U	530 U	540 U	550 U	550 U	510 U
Isophorone	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 UJ Q
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	0.76 J Z
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	19 U	19 U	20 U	19 U	20 U	18 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	19 U	19 U	20 U	19 U	20 U	6.7 J Z
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	62 J Z
Phenanthrene (8270C SIM)	ug/kg	1.9 U	2.0	1.7 U	1.8 U	1.8 U	1.8 U	--
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	19 U	19 U	20 U	19 U	20 U	18 U
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	0.83 J Z
Carbazole	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
Pentachlorophenol	ug/kg	560 U	530 U	530 U	540 U	550 U	550 U	510 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
2-Nitroaniline	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
2-Nitrophenol	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	0.89 J Z
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	1.2 J Z
2-Chloronaphthalene	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
3,3`-Dichlorobenzidine	ug/kg	370 U	350 U	350 U	360 U	360 U	370 U	340 U
Benzidine	ug/kg	3700 U	3500 U	3500 U	3600 U	3600 U	3700 U	3400 R Q
2-Methylphenol	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
2-Chlorophenol	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
3-Nitroaniline	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
Benzyl Alcohol	ug/kg	560 U	530 U	530 U	540 U	550 U	550 U	510 U
2,6-Dinitrotoluene	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	190 U	180 U	180 U	180 U	180 U	180 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-211-SA6-SB-1.5-2.5	SL-213-SA6-SS-0.0-0.5	SL-213-SA6-SB-4.0-5.0	SL-214-SA6-SS-0.0-0.5	SL-214-SA6-SB-1.0-2.0	SL-215-SA6-SS-0.0-0.5	SL-215-SA6-SB-4.0-5.0
Sample Date		08/18/2011	07/26/2011	08/31/2011	07/21/2011	08/19/2011	07/20/2011	08/22/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE227	DE209	DE236	DE205	DE228	DE204	DE229
Start Depth		1.5	0	4	0	1	0	4
End Depth		2.5	0.5	5	0.5	2	0.5	5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	34.5 U	36.1 U	--	--	335 U B	37.5 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	8.4 U	1.8 U	8.4 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
Nitrobenzene	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
Hexachlorobutadiene	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
1,2-Dichlorobenzene	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
4-Nitroaniline	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
4-Nitrophenol	ug/kg	530 U	520 U	540 U	510 U	550 U	500 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
4-Methylphenol	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
4-Chloroaniline	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
Phenol	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	1100	--	170 J Z	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	19 U	19 U	20 U	--	20 U	--	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	30 J Z	--	170 U	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	19 U	19 U	20 U	--	20 U	--	20 U
Hexachlorobenzene	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	78 J Z	--	--	--
Anthracene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	--	1.8 U	6.9 J Z	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	130 J Z	--
Pyrene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	990	1.8 U	--	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	170 U	--	0.259 UJ B, Q	--
Dimethylphthalate (8270C SIM)	ug/kg	19 U	19 U	20 U	--	20 U	--	20 U
Dibenzofuran	ug/kg	180 U	170 U	180 U	22 J Z	180 U	170 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	99 J Z	--	47 J Z	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.7 U	0.74 J Z	1.8 U	--	1.8 U	--	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	98 J Z	--	40 J Z	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	--	1.8 U	--	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	290	--	81 J Z	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.7 U	1.4 J Z	1.8 U	--	1.8 U	--	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	120 J Z	--
Fluoranthene (8270C SIM)	ug/kg	1.7 U	0.91 J Z	1.8 U	1100	1.8 U	--	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	110 J Z	--	33 J Z	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.7 U	0.95 J Z	1.8 U	--	1.8 U	--	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	32 J Z	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	--	1.8 U	1.9 J Z	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	83 J Z	--
Chrysene (8270C SIM)	ug/kg	1.7 U	1.8	1.8 U	500	1.8 U	--	0.45 J Z
bis(2-Chloroisopropyl) ether	ug/kg	12.0 U B	170 U	11.0 U B	170 U	180 U	170 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	130 J Z	--	44 J Z	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	--	1.8 U	--	1.9 U

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J - Result is an estimated value
R - Result is rejected

Sample Name		SL-211-SA6-SB-1.5-2.5	SL-213-SA6-SS-0.0-0.5	SL-213-SA6-SB-4.0-5.0	SL-214-SA6-SS-0.0-0.5	SL-214-SA6-SB-1.0-2.0	SL-215-SA6-SS-0.0-0.5	SL-215-SA6-SB-4.0-5.0
Sample Date		08/18/2011	07/26/2011	08/31/2011	07/21/2011	08/19/2011	07/20/2011	08/22/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE227	DE209	DE236	DE205	DE228	DE204	DE229
Start Depth		1.5	0	4	0	1	0	4
End Depth		2.5	0.5	5	0.5	2	0.5	5
2,4-Dinitrophenol	ug/kg	1100 U	1000 U	1100 U	1000 U	1100 U	1000 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	530 U	520 U	540 U	510 U	550 UJ L	500 U	560 UJ L
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	30 J Z	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	--	1.8 U	8.4 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	31 J Z	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	300	1.8 U	--	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
Aniline	ug/kg	530 U	520 U	540 U	510 U	550 U	500 U	560 U
Benzoic Acid	ug/kg	530 U	520 U	540 U	510 UJ C	550 U	500 U	560 U
Hexachloroethane	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
Hexachlorocyclopentadiene	ug/kg	530 U	520 U	540 U	510 U	550 U	500 U	560 U
Isophorone	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	25	1.8 U	8.4 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	170 U	--	170 U	--
Diethylphthalate (8270C SIM)	ug/kg	19 U	19 U	20 U	--	20 U	--	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	220	--	30 J Z	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	19 U	19 U	20 U	--	20 U	--	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	890	--	94 J Z	--
Phenanthrene (8270C SIM)	ug/kg	1.7 U	0.72 J Z	1.8 U	--	1.8 U	--	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	18 J Z	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	19 U	20 U	68 J Z	20 U	--	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	33 J Z	--	--	--
Fluorene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	--	1.8 U	8.4 U	1.9 U
Carbazole	ug/kg	180 U	170 U	180 U	100 J Z	180 U	170 U	190 U
Pentachlorophenol	ug/kg	530 U	520 U	540 U	410 J Z	550 U	500 U	560 U
2,4,6-Trichlorophenol	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
2-Nitroaniline	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
2-Nitrophenol	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	20	1.8 U	8.4 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	13	1.8 U	8.4 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	18	1.8 U	8.4 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
3,3`-Dichlorobenzidine	ug/kg	350 U	350 U	360 U	340 U	360 U	330 U	370 U
Benzidine	ug/kg	3500 U	3500 U	3600 U	3400 U	3600 U	3300 U	3700 U
2-Methylphenol	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
2-Chlorophenol	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
3-Nitroaniline	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
Benzyl Alcohol	ug/kg	530 U	520 U	540 U	510 U	550 U	500 U	560 U
2,6-Dinitrotoluene	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	180 U	170 U	180 U	170 U	180 U	170 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-216-SA6-SS-0.0-0.5	SL-217-SA6-SS-0.0-0.5	SL-217-SA6-SB-4.0-5.0	SL-217-SA6-SB-7.5-8.5	SL-218-SA6-SS-0.0-0.5	SL-219-SA6-SS-0.0-0.5	SL-219-SA6-SB-2.5-3.5
Sample Date		07/21/2011	07/26/2011	09/09/2011	09/09/2011	07/20/2011	07/21/2011	08/18/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE205	DE209	DE240	DE240	DE204	DE205	DE227
Start Depth		0	0	4	7.5	0	0	2.5
End Depth		0.5	0.5	5	8.5	0.5	0.5	3.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	34.8 U	397 U	36.4 U	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.7 U	2.0 U	1.8 U	1.7 U	1.7 U	1.8 U
2,4-Dinitrotoluene	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
Nitrobenzene	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
1,4-Dichlorobenzene	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
1,2,4-Trichlorobenzene	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
1,3-Dichlorobenzene	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
Hexachlorobutadiene	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
1,2-Dichlorobenzene	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
4-Nitroaniline	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
4-Nitrophenol	ug/kg	500 U	530 U	610 U	550 U	510 U	510 U	530 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
2,4-Dimethylphenol	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
4-Methylphenol	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
4-Chloroaniline	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
3,5-Dimethylphenol	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
Phenol	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	140 J Z	41 J Z	100 J Z	--	--	27 J Z	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	--	20 U	230	--	19 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	18 U	19 U	22 U	20 U	18 U	18 U	19 U
Hexachlorobenzene	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	5.7	1.7 U	2.0 U	1.8 U	2.9	5.0	1.8 U
2,4-Dichlorophenol	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
1,2-Diphenylhydrazine	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	91	1.7 U	4.4	1.8 U	52	97	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	18 U	19 U	22 U	20 U	11 J Z	18 U	19 U
Dibenzofuran	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	22 J Z	--	--	--	20 J Z	20 J Z	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	--	1.7 U	2.0 U	1.8 U	--	--	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	17 J Z	--	--	--	17 J Z	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	--	1.7 U	2.0 U	1.8 U	--	5.6 J C	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	66	1.7 U	1.2 J Z	1.8 U	35	51	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	180 U
Fluoranthene (8270C SIM)	ug/kg	83	1.7 U	1.1 J Z	1.8 U	71	78	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	20 J Z	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	26	1.7 U	2.0 U	1.8 U	--	27	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	0.83 J Z	1.7 U	0.55 J Z	1.8 U	0.69 J Z	0.36 J Z	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	54	0.45 J Z	1.4 J Z	1.8 U	40	57	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	25 J Z	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	32	1.7 U	2.0 U	1.8 U	--	28	1.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-216-SA6-SS-0.0-0.5	SL-217-SA6-SS-0.0-0.5	SL-217-SA6-SB-4.0-5.0	SL-217-SA6-SB-7.5-8.5	SL-218-SA6-SS-0.0-0.5	SL-219-SA6-SS-0.0-0.5	SL-219-SA6-SB-2.5-3.5
Sample Date		07/21/2011	07/26/2011	09/09/2011	09/09/2011	07/20/2011	07/21/2011	08/18/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE205	DE209	DE240	DE240	DE204	DE205	DE227
Start Depth		0	0	4	7.5	0	0	2.5
End Depth		0.5	0.5	5	8.5	0.5	0.5	3.5
2,4-Dinitrophenol	ug/kg	1000 U	1100 U	1200 U	1100 U	1000 U	1000 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	500 U	530 U	610 U	550 U	510 U	510 U	530 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	2.4 J C	1.7 U	2.0 U	1.8 U	1.9	1.8 J C	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	34	1.7 U	2.0 U	1.8 U	26	39	1.8 U
4-Chloro-3-Methylphenol	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
Aniline	ug/kg	500 U	530 U	610 U	550 U	510 U	510 U	530 U
Benzoic Acid	ug/kg	500 UJ C	530 U	610 U	550 U	510 U	510 UJ C	530 U
Hexachloroethane	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
4-Chlorophenyl Phenylether	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
Hexachlorocyclopentadiene	ug/kg	500 U	530 U	610 U	550 U	510 U	510 U	530 U
Isophorone	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	2.6	1.7 U	2.0 U	1.8 U	1.7 U	1.5 J Z	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	18 U	19 U	22 U	20 U	18 U	18 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	23 J Z	--	--	--	--	24 J Z	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	19 U	22 U	20 U	9.3 J Z	--	19 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	33	0.72 J Z	6.9	1.8 U	21	23	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	7.2 J Z	19 U	22 U	20 U	18 U	18 U	19 U
N-Nitrosodiphenylamine	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.3 J Z	1.7 U	1.4 J Z	1.8 U	1.7 U	0.84 J Z	1.8 U
Carbazole	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
Pentachlorophenol	ug/kg	190 J Z	530 U	610 U	550 U	510 U	510 U	530 U
2,4,6-Trichlorophenol	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
2-Nitroaniline	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
2-Nitrophenol	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.1 J Z	1.7 U	1.0 J Z	1.8 U	1.7 U	1.7 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.8	1.7 U	0.90 J Z	1.8 U	1.7 U	0.99 J Z	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.4 J Z	1.7 U	1.1 J Z	1.8 U	1.7 U	1.7 U	1.8 U
2-Chloronaphthalene	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
3,3`-Dichlorobenzidine	ug/kg	340 U	350 U	400 U	370 U	340 U	340 U	350 U
Benzidine	ug/kg	3400 U	3500 U	4000 U	3700 U	3400 U	3400 U	3500 U
2-Methylphenol	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
2-Chlorophenol	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
2,4,5-Trichlorophenol	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
3-Nitroaniline	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
Benzyl Alcohol	ug/kg	500 U	530 U	610 U	550 U	510 U	510 U	530 U
2,6-Dinitrotoluene	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	180 U	200 U	180 U	170 U	170 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-220-SA6-SS-0.0-0.5	SL-221-SA6-SB-1.0-2.0	SL-223-SA6-SB-2.5-3.5	SL-224-SA6-SB-3.0-4.0	SL-225-SA6-SB-3.0-4.0	SL-226-SA6-SB-3.5-4.5	SL-228-SA6-SS-0.0-0.5
Sample Date		07/20/2011	08/17/2011	08/17/2011	08/17/2011	10/04/2011	08/17/2011	07/21/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE204	DE226	DE226	DE226	DE261	DE226	DE206
Start Depth		0	1	2.5	3	3	3.5	0
End Depth		0.5	2	3.5	4	4	4.5	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	33.6 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	8.4 U	1.8 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U
2,4-Dinitrotoluene	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
Nitrobenzene	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
1,4-Dichlorobenzene	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
1,2,4-Trichlorobenzene	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
1,3-Dichlorobenzene	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
Hexachlorobutadiene	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
1,2-Dichlorobenzene	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
4-Nitroaniline	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
4-Nitrophenol	ug/kg	500 U	530 U	520 U	550 U	540 U	520 U	510 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
2,4-Dimethylphenol	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
4-Methylphenol	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
4-Chloroaniline	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
3,5-Dimethylphenol	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
Phenol	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	290 J Z	--	--	--	--	--	54 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	19 U	18 U	20 U	20 U	19 U	--
Di-N-Octyl Phthalate (8270C)	ug/kg	170 U	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	19 U	18 U	20 U	20 U	19 U	18 U
Hexachlorobenzene	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	92	1.8 U	1.7 U	1.8 UJ FD	1.8 U	1.7 U	5.8 J FD, Q
2,4-Dichlorophenol	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
1,2-Diphenylhydrazine	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	85 J Z
Pyrene (8270C SIM)	ug/kg	1200	1.8 U	1.7 U	1.8 U	1.8 U	1.7 U	--
Dimethylphthalate (8270C)	ug/kg	170 U	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	--	19 U	18 U	20 U	20 U	19 U	18 U
Dibenzofuran	ug/kg	21 J Z	180 U	170 U	180 U	180 U	170 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	150 J Z	--	--	--	--	--	18 J Z
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	--	1.8 U	1.7 U	1.8 U	1.8 U	1.7 U	--
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	140 J Z	--	--	--	--	--	17 J Z
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	--	1.8 U	1.7 U	1.8 U	1.8 U	1.7 U	--
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	37 J Z
Benzo(b)fluoranthene (8270C SIM)	ug/kg	430	1.8 U	1.7 U	1.8 U	1.8 U	1.7 U	--
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	94 J Z
Fluoranthene (8270C SIM)	ug/kg	1900	1.8 U	1.7 U	1.8 U	1.8 U	1.7 U	--
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	22 J Z
Benzo(k)fluoranthene (8270C SIM)	ug/kg	220	1.8 U	1.7 U	1.8 U	1.8 U	1.7 U	--
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	40	1.8 U	1.7 U	1.8 U	1.8 U	1.7 U	1.3 J FD, Z
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	640	1.8 U	1.7 U	1.8 U	1.8 U	1.7 U	57 J Q
bis(2-Chloroisopropyl) ether	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	230	--	--	--	--	--	19 J Z
Benzo(a)pyrene (8270C SIM)	ug/kg	--	1.8 U	1.7 U	1.8 U	1.8 U	1.7 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-220-SA6-SS-0.0-0.5	SL-221-SA6-SB-1.0-2.0	SL-223-SA6-SB-2.5-3.5	SL-224-SA6-SB-3.0-4.0	SL-225-SA6-SB-3.0-4.0	SL-226-SA6-SB-3.5-4.5	SL-228-SA6-SS-0.0-0.5
Sample Date		07/20/2011	08/17/2011	08/17/2011	08/17/2011	10/04/2011	08/17/2011	07/21/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE204	DE226	DE226	DE226	DE261	DE226	DE206
Start Depth		0	1	2.5	3	3	3.5	0
End Depth		0.5	2	3.5	4	4	4.5	0.5
2,4-Dinitrophenol	ug/kg	1000 U	1100 U	1000 U	1100 U	1100 U	1000 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	500 U	530 U	520 U	550 U	540 U	520 U	510 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	49 J Z	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	--	1.8 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7
Benzo(a)anthracene (8270C)	ug/kg	240	--	--	--	--	--	17 J Z
Benzo(a)anthracene (8270C SIM)	ug/kg	--	1.8 U	1.7 U	1.8 U	1.8 U	1.7 U	--
4-Chloro-3-Methylphenol	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
Aniline	ug/kg	500 U	530 U	520 U	550 U	540 U	520 U	510 U
Benzoic Acid	ug/kg	500 U	530 U	520 U	550 U	540 U	520 U	510 U
Hexachloroethane	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
4-Chlorophenyl Phenylether	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
Hexachlorocyclopentadiene	ug/kg	500 U	530 U	520 U	550 U	540 U	520 U	510 U
Isophorone	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	27	1.8 U	1.7 U	1.8 U	1.8 U	1.7 U	0.79 J Z
Diethylphthalate (8270C)	ug/kg	170 U	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	--	19 U	18 U	20 U	20 U	19 U	18 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	540	19 U	18 U	20 U	20 U	19 U	10 J FD, Z
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	61 J Z
Phenanthrene (8270C SIM)	ug/kg	1300	1.8 U	1.7 U	1.8 UJ FD	1.8 U	1.7 U	--
Butylbenzylphthalate (8270C)	ug/kg	20 J Z	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	19 U	18 U	20 U	20 U	19 U	8.0 J FD, Z
N-Nitrosodiphenylamine	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	30	1.8 U	1.7 U	1.8 U	1.8 U	1.7 U	0.89 J Z
Carbazole	ug/kg	97 J Z	180 U	170 U	180 U	180 U	170 U	170 U
Pentachlorophenol	ug/kg	410 J Z	530 U	520 U	550 U	540 U	520 U	510 U
2,4,6-Trichlorophenol	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
2-Nitroaniline	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
2-Nitrophenol	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	20	1.8 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 UJ FD
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	14	1.8 U	1.7 U	1.8 U	1.8 U	1.7 U	0.96 J Z
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	21	1.8 U	1.7 U	1.8 U	1.8 U	1.7 U	0.82 J Z
2-Chloronaphthalene	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
3,3`-Dichlorobenzidine	ug/kg	330 U	350 U	340 U	370 U	360 U	350 U	340 U
Benzidine	ug/kg	3300 U	3500 U	3400 U	3700 R Q	3600 U	3500 U	3400 R Q
2-Methylphenol	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
2-Chlorophenol	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
2,4,5-Trichlorophenol	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
3-Nitroaniline	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
Benzyl Alcohol	ug/kg	500 U	530 U	520 U	550 U	540 U	520 U	510 U
2,6-Dinitrotoluene	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	180 U	170 U	180 U	180 U	170 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-228-SA6-SB-4.0-5.0	SL-229-SA6-SS-0.0-0.5	SL-229-SA6-SB-2.0-3.0	SL-230-SA6-SS-0.0-0.5	SL-230-SA6-SB-4.0-5.0	SL-232-SA6-SS-0.0-0.5	SL-232-SA6-SB-2.5-3.5
Sample Date		08/18/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE227	DE263	DE263	DE263	DE263	DE263	DE263
Start Depth		4	0	2	0	4	0	2.5
End Depth		5	0.5	3	0.5	5	0.5	3.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	36.2 U	--	--	35.4 U	34.8 U	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	8.9 U	1.7 U	8.9 U	1.7 U	1.9 U	1.8 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
Nitrobenzene	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
Hexachlorobutadiene	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
4-Nitroaniline	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
4-Nitrophenol	ug/kg	540 U	530 U	520 U	530 U	520 U	570 U	540 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
4-Methylphenol	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
4-Chloroaniline	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
3,5-Dimethylphenol	ug/kg	180 U	180 R Q	170 U	180 U	170 U	190 U	180 U
Phenol	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	380	--	--	34 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	19 U	96 U B	19 U B	--	19 U B	39 U B	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	180 U	--	180 U	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	19 U	--	19 U	--	19 U	20 U	19 U
Hexachlorobenzene	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.8 U	8.9 U	1.7 U	3.7 J Z	1.7 U	1.9 U	1.8 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	8.9 U	2.3	39	1.7 U	1.9 U	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	180 U	--	180 U	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	19 U	--	19 U	--	19 U	20 U	19 U
Dibenzofuran	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	20 J Z	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.8 U	8.9 U	1.1 J Z	--	1.7 U	1.9 U	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.8 U	8.9 U	0.77 J Z	8.2 J Z	1.7 U	1.9 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.8 U	6.7 J Z	6.2	27	1.4 J Z	1.7 J Z	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	8.9 U	2.6	40	1.7 U	1.9 U	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.8 U	8.9 U	1.7 U	9.7	1.7 U	1.9 U	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	8.9 U	1.7 U	8.9 U	1.7 U	1.9 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.8 U	1.9 J Z	2.2	24	0.41 J Z	0.38 J Z	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.8 U	8.9 U	1.3 J Z	14	1.7 U	1.9 U	1.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-228-SA6-SB-4.0-5.0	SL-229-SA6-SS-0.0-0.5	SL-229-SA6-SB-2.0-3.0	SL-230-SA6-SS-0.0-0.5	SL-230-SA6-SB-4.0-5.0	SL-232-SA6-SS-0.0-0.5	SL-232-SA6-SB-2.5-3.5
Sample Date		08/18/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE227	DE263	DE263	DE263	DE263	DE263	DE263
Start Depth		4	0	2	0	4	0	2.5
End Depth		5	0.5	3	0.5	5	0.5	3.5
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1000 U	1100 U	1000 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	540 U	530 U	520 U	530 U	520 U	570 U	540 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	8.9 U	1.7 U	8.9 U	1.7 U	1.9 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.8 U	8.9 U	1.7 U	18	1.7 U	1.9 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
Aniline	ug/kg	540 U	530 U	520 U	530 U	520 U	570 U	540 U
Benzoic Acid	ug/kg	540 U	530 U	520 U	530 U	520 U	570 U	540 U
Hexachloroethane	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
Hexachlorocyclopentadiene	ug/kg	540 U	530 U	520 U	530 U	520 U	570 U	540 U
Isophorone	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	8.9 U	1.7 U	8.9 U	1.7 U	1.9 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	180 U	--	180 U	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	19 U	--	19 U	--	19 U	20 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	--	180 U	--	180 U	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	19 U	--	19 U	--	19 U	20 U	19 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	8.9 U	1.0 J Z	16	1.7 U	1.9 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	180 U	--	180 U	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	--	19 U	--	19 U	20 U	19 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.8 U	8.9 U	1.7 U	8.9 U	1.7 U	1.9 U	1.8 U
Carbazole	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
Pentachlorophenol	ug/kg	540 U	530 U	520 U	530 U	520 U	570 U	540 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
2-Nitroaniline	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
2-Nitrophenol	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	8.9 U	1.7 U	8.9 U	1.7 U	1.9 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.8 U	8.9 U	1.7 U	8.9 U	1.7 U	1.9 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	8.9 U	1.7 U	8.9 U	1.7 U	1.9 U	1.8 U
2-Chloronaphthalene	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
3,3`-Dichlorobenzidine	ug/kg	360 U	360 U	350 U	360 U	350 U	380 U	360 U
Benzidine	ug/kg	3600 U	3600 R Q	3500 U	3600 U	3500 U	3800 U	3600 U
2-Methylphenol	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
2-Chlorophenol	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
3-Nitroaniline	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
Benzyl Alcohol	ug/kg	540 U	530 U	520 U	530 U	520 U	570 U	540 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	180 U	180 U	170 U	180 U	170 U	190 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-233-SA6-SS-0.0-0.5	SL-234-SA6-SS-0.0-0.5	SL-235-SA6-SS-0.0-0.5	SL-235-SA6-SB-4.0-5.0	SL-236-SA6-SS-0.0-0.5	SL-237-SA6-SS-0.0-0.5	SL-238-SA6-SS-0.0-0.5
Sample Date		07/22/2011	10/06/2011	07/25/2011	09/12/2011	07/25/2011	07/21/2011	07/22/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE207	DE263	DE208	DE241	DE208	DE206	DE207
Start Depth		0	0	0	4	0	0	0
End Depth		0.5	0.5	0.5	5	0.5	0.5	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	33.4 U	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U
2,4-Dinitrotoluene	ug/kg	170 U	190 U	40.0 U B	180 U	170 U	170 U	170 U
Nitrobenzene	ug/kg	170 U	190 U	3.33 U B	180 U	4.45 U B	170 U	170 U
1,4-Dichlorobenzene	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
1,2,4-Trichlorobenzene	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
1,3-Dichlorobenzene	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
Hexachlorobutadiene	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
1,2-Dichlorobenzene	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
4-Nitroaniline	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
4-Nitrophenol	ug/kg	500 U	560 U	510 U	550 U	510 U	510 U	510 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
2,4-Dimethylphenol	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
4-Methylphenol	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
4-Chloroaniline	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
3,5-Dimethylphenol	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
Phenol	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	38 J Z	--	--	--	--	23 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	13 J Z	--	18 U	20 U	14 J L, Z	160	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	22 J Z	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	18 U	20 U	--	20 U	11 J L, Z	18 U	18 U
Hexachlorobenzene	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 UJ L	1.8 U	0.41 J L, Z	1.3 J Z	1.7 U
2,4-Dichlorophenol	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
1,2-Diphenylhydrazine	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
Pyrene (8270C)	ug/kg	63 J Z	--	--	--	--	18 J Z	--
Pyrene (8270C SIM)	ug/kg	--	1.6 J Z	0.87 J Z	1.8 U	2.1	--	2.1
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	18 U	20 U	18 U	20 U	18 U	18 U	18 U
Dibenzofuran	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	0.69 J Z	0.77 J Z	1.7 U	1.8 U	1.7 U	2.3	1.7 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U	2.3	1.7 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	2.6	4.6	1.0 J L, Z	1.8 U	2.2 J L	13	1.2 J Z
Fluoranthene (8270C)	ug/kg	78 J Z	--	--	--	--	19 J Z	--
Fluoranthene (8270C SIM)	ug/kg	--	1.8 J Z	0.92 J L, Z	1.8 U	2.2 J L	--	2.4
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.2 J Z	1.9 U	1.7 U	1.8 U	1.0 J L, Z	4.9	1.7 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U	0.35 J Z	1.7 U
Chrysene (8270C)	ug/kg	24 J Z	--	--	--	--	18 J Z	--
Chrysene (8270C SIM)	ug/kg	--	1.6 J Z	0.85 J L, Z	1.8 U	1.8 J L	--	1.5 J Z
bis(2-Chloroisopropyl) ether	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.2 J Z	0.92 J Z	1.7 U	1.8 U	1.2 J L, Z	5.6	1.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-233-SA6-SS-0.0-0.5	SL-234-SA6-SS-0.0-0.5	SL-235-SA6-SS-0.0-0.5	SL-235-SA6-SB-4.0-5.0	SL-236-SA6-SS-0.0-0.5	SL-237-SA6-SS-0.0-0.5	SL-238-SA6-SS-0.0-0.5
Sample Date		07/22/2011	10/06/2011	07/25/2011	09/12/2011	07/25/2011	07/21/2011	07/22/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE207	DE263	DE208	DE241	DE208	DE206	DE207
Start Depth		0	0	0	4	0	0	0
End Depth		0.5	0.5	0.5	5	0.5	0.5	0.5
2,4-Dinitrophenol	ug/kg	1000 U	1100 U	1000 U	1100 U	1000 U	1000 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	500 U	560 U	510 U	550 UJ L	510 U	510 U	510 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.1 J Z	1.9 U	1.7 U	1.8 U	1.2 J Z	5.7	1.7 U
4-Chloro-3-Methylphenol	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
Aniline	ug/kg	500 U	560 U	510 U	550 U	510 U	510 U	510 U
Benzoic Acid	ug/kg	500 U	560 U	510 U	550 UJ L	510 U	510 U	510 U
Hexachloroethane	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
4-Chlorophenyl Phenylether	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
Hexachlorocyclopentadiene	ug/kg	500 U	560 U	510 U	550 U	510 U	510 U	510 U
Isophorone	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	18 UJ Q	20 U	18 U	20 U	18 U	18 U	18 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	18 U	20 U	18 UJ L	20 U	18 UJ L	18 U	18 U
Phenanthrene (8270C)	ug/kg	48 J Z	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	--	1.3 J Z	1.7 U	1.8 U	1.2 J L, Z	5.9	1.4 J Z
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	18 U	20 U	18 R L	20 U	18 R L	18 U	18 U
N-Nitrosodiphenylamine	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.7 U	0.79 J Z	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U
Carbazole	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
Pentachlorophenol	ug/kg	500 U	560 U	510 U	550 U	510 U	510 U	510 U
2,4,6-Trichlorophenol	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
2-Nitroaniline	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
2-Nitrophenol	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.7 U	0.82 J Z	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U
2-Chloronaphthalene	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
3,3`-Dichlorobenzidine	ug/kg	340 U	380 U	340 U	360 U	340 U	340 U	340 U
Benzidine	ug/kg	3400 R Q	3800 U	3400 U	3600 U	3400 U	3400 U	3400 U
2-Methylphenol	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
2-Chlorophenol	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
2,4,5-Trichlorophenol	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
3-Nitroaniline	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
Benzyl Alcohol	ug/kg	500 U	560 U	510 U	550 U	510 U	510 U	510 U
2,6-Dinitrotoluene	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	190 U	170 U	180 U	170 U	170 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-240-SA6-SS-0.0-0.5	SL-241-SA6-SS-0.0-0.5	SL-241-SA6-SB-4.0-5.0	SL-241-SA6-SB-9.0-10.0	SL-242-SA6-SS-0.0-0.5	SL-242-SA6-SB-4.0-5.0	SL-242-SA6-SB-9.0-10.0
Sample Date		07/21/2011	07/22/2011	08/22/2011	08/22/2011	07/22/2011	08/22/2011	08/22/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE206	DE207	DE229	DE229	DE207	DE229	DE229
Start Depth		0	0	4	9	0	4	9
End Depth		0.5	0.5	5	10	0.5	5	10
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	33.3 U	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
2,4-Dinitrotoluene	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
Nitrobenzene	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
Hexachlorobutadiene	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
4-Nitroaniline	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
4-Nitrophenol	ug/kg	510 U	500 U	540 U	550 U	500 U	530 U	530 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
4-Methylphenol	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
4-Chloroaniline	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
Phenol	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	30 J Z	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	18 U	18 U	19 U	20 U	--	19 U	19 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	170 U	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	18 U	18 U	19 U	20 U	--	19 U	19 U
Hexachlorobenzene	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
2,4-Dichlorophenol	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	170 U	--	--
Dimethylphthalate (8270C SIM)	ug/kg	18 U	18 U	19 U	20 U	--	19 U	19 U
Dibenzofuran	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	1.8 U	5.17 U B	1.7 U	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	1.8 U	3.4 J Z	1.7 U	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-240-SA6-SS-0.0-0.5	SL-241-SA6-SS-0.0-0.5	SL-241-SA6-SB-4.0-5.0	SL-241-SA6-SB-9.0-10.0	SL-242-SA6-SS-0.0-0.5	SL-242-SA6-SB-4.0-5.0	SL-242-SA6-SB-9.0-10.0
Sample Date		07/21/2011	07/22/2011	08/22/2011	08/22/2011	07/22/2011	08/22/2011	08/22/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE206	DE207	DE229	DE229	DE207	DE229	DE229
Start Depth		0	0	4	9	0	4	9
End Depth		0.5	0.5	5	10	0.5	5	10
2,4-Dinitrophenol	ug/kg	1000 U	1000 U	1100 U	1100 U	1000 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	510 U	500 U	540 UJ L	550 UJ L	500 U	530 UJ L	530 UJ L
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
Aniline	ug/kg	510 U	500 U	540 U	550 U	500 U	530 U	530 U
Benzoic Acid	ug/kg	510 U	500 U	540 U	550 U	500 U	530 U	530 U
Hexachloroethane	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	510 U	500 U	540 U	550 U	500 U	530 U	530 U
Isophorone	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	170 U	--	--
Diethylphthalate (8270C SIM)	ug/kg	18 U	18 U	19 U	20 U	--	19 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	170 U	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	18 U	18 U	19 U	20 U	--	19 U	19 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	170 U	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	18 U	18 U	19 U	20 U	--	19 U	19 U
N-Nitrosodiphenylamine	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
Carbazole	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
Pentachlorophenol	ug/kg	510 U	500 U	540 U	550 U	500 U	530 U	530 U
2,4,6-Trichlorophenol	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
2-Nitroaniline	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
2-Nitrophenol	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
2-Chloronaphthalene	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	340 U	340 U	360 U	370 U	340 U	350 U	350 U
Benzidine	ug/kg	3400 U	3400 U	3600 U	3700 U	3400 U	3500 U	3500 U
2-Methylphenol	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
2-Chlorophenol	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
3-Nitroaniline	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
Benzyl Alcohol	ug/kg	510 U	500 U	540 U	550 U	500 U	530 U	530 U
2,6-Dinitrotoluene	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	170 U	180 U	180 U	170 U	180 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-243-SA6-SS-0.0-0.5	SL-244-SA6-SS-0.0-0.5	SL-245-SA6-SS-0.0-0.5	SL-246-SA6-SB-4.0-5.0	SL-247-SA6-SB-4.0-5.0	SL-249-SA6-SB-4.0-5.0	SL-250-SA6-SB-3.0-4.0
Sample Date		07/22/2011	07/22/2011	07/25/2011	08/25/2011	08/25/2011	08/29/2011	08/26/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE207	DE207	DE208	DE232	DE232	DE234	DE233
Start Depth		0	0	0	4	4	4	3
End Depth		0.5	0.5	0.5	5	5	5	4
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	334 U	36.4 U	35.5 U	350 U	340 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.7 U	8.4 U	1.8 U	1.8 U	1.8 U	8.6 U
2,4-Dinitrotoluene	ug/kg	170 U	170 U	23.3 U B	180 U	180 U	180 U	170 U
Nitrobenzene	ug/kg	170 U	170 U	3.4 U B	180 U	180 U	180 U	170 U
1,4-Dichlorobenzene	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
1,2,4-Trichlorobenzene	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
1,3-Dichlorobenzene	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
Hexachlorobutadiene	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
1,2-Dichlorobenzene	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
4-Nitroaniline	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
4-Nitrophenol	ug/kg	500 U	500 U	500 U	550 U	540 U	530 U	510 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
2,4-Dimethylphenol	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
4-Methylphenol	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
4-Chloroaniline	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
3,5-Dimethylphenol	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
Phenol	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	32 J Z	--	340 U	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	37	--	20 U	19 U	19 U	52 J Z
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	170 U	--	--	--	170 U
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	23	18	--	20 U	19 U	19 U	--
Hexachlorobenzene	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	0.73 J Z	0.79 J Z	8.4 UJ L	1.8 U	1.8 U	1.8 U	8.6 U
2,4-Dichlorophenol	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
1,2-Diphenylhydrazine	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
Pyrene (8270C)	ug/kg	--	21 J Z	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	10	--	8.4 U	1.8 U	1.8 U	1.8 U	10
Dimethylphthalate (8270C)	ug/kg	--	--	170 U	--	--	--	170 U
Dimethylphthalate (8270C SIM)	ug/kg	18 U	18 U	--	20 U	19 U	19 U	--
Dibenzofuran	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	20 J Z	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.2 J Z	--	8.4 U	1.8 U	1.8 U	1.8 U	9.3
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.2 J Z	1.7	8.4 U	1.8 U	1.8 U	1.8 U	4.4 J Z
Benzo(b)fluoranthene (8270C)	ug/kg	--	25 J Z	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	6.8	--	8.4 U	1.8 U	1.8 U	1.8 U	24
Fluoranthene (8270C)	ug/kg	--	18 J Z	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	13	--	8.4 UJ L	1.8 U	1.8 U	1.8 U	11
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	2.6	3.5	8.4 U	1.8 U	1.8 U	1.8 U	8.6 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.7 U	1.0 J Z	8.4 U	1.8 U	1.8 U	1.8 U	8.6 U
Chrysene (8270C)	ug/kg	--	18 J Z	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	7.3	--	2.3 J L, Z	1.8 U	1.8 U	1.8 U	16
bis(2-Chloroisopropyl) ether	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	--	19 J Z	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	2.2	--	8.4 U	1.8 U	1.8 U	1.8 U	14

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-243-SA6-SS-0.0-0.5	SL-244-SA6-SS-0.0-0.5	SL-245-SA6-SS-0.0-0.5	SL-246-SA6-SB-4.0-5.0	SL-247-SA6-SB-4.0-5.0	SL-249-SA6-SB-4.0-5.0	SL-250-SA6-SB-3.0-4.0
Sample Date		07/22/2011	07/22/2011	07/25/2011	08/25/2011	08/25/2011	08/29/2011	08/26/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE207	DE207	DE208	DE232	DE232	DE234	DE233
Start Depth		0	0	0	4	4	4	3
End Depth		0.5	0.5	0.5	5	5	5	4
2,4-Dinitrophenol	ug/kg	1000 U	1000 U	1000 U	1100 U	1100 U	1100 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	500 U	500 U	500 U	550 U	540 U	530 U	510 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.7 U	1.7 U	8.4 U	1.8 U	1.8 U	1.8 U	8.6 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	2.0	3.9	8.4 U	1.8 U	1.8 U	1.8 U	5.9 J Z
4-Chloro-3-Methylphenol	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
Aniline	ug/kg	500 U	500 U	500 U	550 U	540 U	530 U	510 U
Benzoic Acid	ug/kg	500 U	500 U	500 U	550 U	540 U	530 U	510 U
Hexachloroethane	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
4-Chlorophenyl Phenylether	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
Hexachlorocyclopentadiene	ug/kg	500 U	500 U	500 U	550 U	540 U	530 U	510 U
Isophorone	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	1.7 U	8.4 U	1.8 U	1.8 U	1.8 U	8.6 U
Diethylphthalate (8270C)	ug/kg	--	--	170 U	--	--	--	170 U
Diethylphthalate (8270C SIM)	ug/kg	18 U	18 U	--	20 U	19 U	19 U	--
Di-n-Butylphthalate (8270C)	ug/kg	--	--	170 U	--	--	--	170 U
Di-n-Butylphthalate (8270C SIM)	ug/kg	18 U	18 U	--	20 U	19 U	19 U	--
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	5.6	6.3	8.4 U	1.8 U	1.8 U	1.8 U	3.9 J Z
Butylbenzylphthalate (8270C)	ug/kg	--	--	170 U	--	--	--	170 U
Butylbenzylphthalate (8270C SIM)	ug/kg	18 U	18 U	--	20 U	19 U	19 U	--
N-Nitrosodiphenylamine	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.7 U	1.7 U	8.4 U	1.8 U	1.8 U	1.8 U	8.6 U
Carbazole	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
Pentachlorophenol	ug/kg	500 U	500 U	500 U	550 U	540 U	530 U	510 U
2,4,6-Trichlorophenol	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
2-Nitroaniline	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
2-Nitrophenol	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	8.4 U	1.8 U	1.8 U	1.8 U	8.6 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	8.4 U	1.8 U	1.8 U	1.8 U	8.6 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	8.4 U	1.8 U	1.8 U	1.8 U	8.6 U
2-Chloronaphthalene	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
3,3`-Dichlorobenzidine	ug/kg	340 U	340 U	340 U	370 U	360 U	350 U	340 U
Benzidine	ug/kg	3400 U	3400 U	3400 U	3700 U	3600 U	3500 U	3400 U
2-Methylphenol	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
2-Chlorophenol	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
2,4,5-Trichlorophenol	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
3-Nitroaniline	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
Benzyl Alcohol	ug/kg	500 U	500 U	500 U	550 U	540 U	530 U	510 U
2,6-Dinitrotoluene	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	170 U	170 U	180 U	180 U	180 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-252-SA6-SB-4.0-5.0	SL-253-SA6-SS-0.0-0.5	SL-253-SA6-SB-4.0-5.0	SL-254-SA6-SS-0.0-0.5	SL-254-SA6-SB-2.5-3.5	SL-255-SA6-SS-0.0-0.5	SL-255-SA6-SB-2.0-3.0
Sample Date		08/26/2011	07/25/2011	08/29/2011	07/25/2011	10/06/2011	07/25/2011	08/29/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE233	DE208	DE234	DE208	DE263	DE208	DE234
Start Depth		4	0	4	0	2.5	0	2
End Depth		5	0.5	5	0.5	3.5	0.5	3
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	345 U	33.4 U B	846	33.3 U	34.1 U	33.5 U	36.2 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	8.7 U	1.7 U	1.7 U	8.4 U	1.7 U	1.7 U	1.8 U
2,4-Dinitrotoluene	ug/kg	180 U	33.9 U B	170 U	170 U	170 U	34.6 U B	180 U
Nitrobenzene	ug/kg	180 U	5.84 U B	170 U	170 U	170 U	170 U	180 U
1,4-Dichlorobenzene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
1,2,4-Trichlorobenzene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
1,3-Dichlorobenzene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
Hexachlorobutadiene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
1,2-Dichlorobenzene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
4-Nitroaniline	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
4-Nitrophenol	ug/kg	530 U	500 U	520 U	500 U	520 U	510 U	540 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
2,4-Dimethylphenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
4-Methylphenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
4-Chloroaniline	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
3,5-Dimethylphenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
Phenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	340 U	--	29 J Z	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	300	15 J L, Z	12 J L, Z	--	19 U B	--	19 U
Di-N-Octyl Phthalate (8270C)	ug/kg	180 U	--	--	170 U	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	20 J L	19 U	--	19 U	18 U	19 U
Hexachlorobenzene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	8.9 J FD	3.7 J L	0.46 J Z	8.4 UJ L	1.7 U	1.7 UJ L	1.8 U
2,4-Dichlorophenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
1,2-Diphenylhydrazine	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
Pyrene (8270C)	ug/kg	--	--	17 J Z	--	--	--	--
Pyrene (8270C SIM)	ug/kg	93 J FD	3.1	--	8.4 U	1.7 U	1.6 J Z	0.78 J Z
Dimethylphthalate (8270C)	ug/kg	180 U	--	--	170 U	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	--	18 U	19 U	--	19 U	18 U	19 U
Dibenzofuran	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	29 J Z	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	--	2.4 J L	3.0	8.4 U	1.7 U	1.7 U	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	14 J FD	2.0 J L	1.9 J L	8.4 U	1.7 U	1.7 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	70 J FD	2.1 J L	10 J L	8.4 U	0.93 J Z	0.88 J L, Z	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	51 J FD	3.7 J L	7.1	8.4 UJ L	1.7 U	2.6 J L	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	28 J FD	1.9 J L	3.8	8.4 U	1.7 U	1.7 U	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	8.7 U	1.2 J Z	1.7 U	8.4 U	1.7 U	1.7 U	1.9
Chrysene (8270C)	ug/kg	--	--	18 J Z	--	--	--	--
Chrysene (8270C SIM)	ug/kg	210 J FD	2.7 J L	--	3.6 J L, Z	0.38 J Z	1.3 J L, Z	1.2 J Z
bis(2-Chloroisopropyl) ether	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	33 J FD	2.0 J L	4.6 J L	8.4 U	1.7 U	1.7 U	1.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-252-SA6-SB-4.0-5.0	SL-253-SA6-SS-0.0-0.5	SL-253-SA6-SB-4.0-5.0	SL-254-SA6-SS-0.0-0.5	SL-254-SA6-SB-2.5-3.5	SL-255-SA6-SS-0.0-0.5	SL-255-SA6-SB-2.0-3.0
Sample Date		08/26/2011	07/25/2011	08/29/2011	07/25/2011	10/06/2011	07/25/2011	08/29/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE233	DE208	DE234	DE208	DE263	DE208	DE234
Start Depth		4	0	4	0	2.5	0	2
End Depth		5	0.5	5	0.5	3.5	0.5	3
2,4-Dinitrophenol	ug/kg	1100 R Q	1000 U	1000 U	1000 U	1000 U	1000 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	530 U	500 U	520 U	500 U	520 U	510 U	540 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	4.7 J FD, Z	1.8 J L	0.93 J Z	8.4 U	1.7 U	1.7 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	23 J Z	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	--	2.8	3.7	8.4 U	1.7 U	1.7 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
Aniline	ug/kg	530 U	500 U	520 U	500 U	520 U	510 U	540 U
Benzoic Acid	ug/kg	530 U	500 U	520 U	500 U	520 U	510 U	540 U
Hexachloroethane	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
4-Chlorophenyl Phenylether	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
Hexachlorocyclopentadiene	ug/kg	530 U	500 U	520 U	500 U	520 U	510 U	540 U
Isophorone	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	8.7 U	1.1 J L, Z	1.7 U	8.4 U	1.7 U	1.7 U	0.98 J Z
Diethylphthalate (8270C)	ug/kg	180 U	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	--	18 U	19 U	46 J Z	19 U	18 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	170 U	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	41 J Z	6.8 J L, Z	19 U	--	19 U	18 UJ L	19 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	25 J FD	3.7 J L	2.0	8.4 U	1.7 U	2.7 J L	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	180 U	--	--	170 U	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	18 R L	19 U	--	8.2 J Z	18 R L	19 U
N-Nitrosodiphenylamine	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	8.7 U	2.8 J L	1.7 U	8.4 U	1.7 U	1.7 U	1.8 U
Carbazole	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
Pentachlorophenol	ug/kg	530 U	500 U	520 U	500 U	520 U	510 U	540 U
2,4,6-Trichlorophenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
2-Nitroaniline	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
2-Nitrophenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	8.7 U	1.7 U	1.7 U	8.4 U	1.7 U	1.7 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	8.7 U	1.7 U	1.7 U	8.4 U	1.7 U	2.2	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	8.7 U	0.84 J Z	1.7 U	8.4 U	1.7 U	0.91 J Z	1.8 U
2-Chloronaphthalene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
3,3`-Dichlorobenzidine	ug/kg	350 UJ Q	340 U	350 U	340 U	350 U	340 U	360 U
Benzidine	ug/kg	3500 R Q	3400 U	3500 U	3400 U	3500 U	3400 U	3600 U
2-Methylphenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
2-Chlorophenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
2,4,5-Trichlorophenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
3-Nitroaniline	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
Benzyl Alcohol	ug/kg	530 U	500 U	520 U	500 U	520 U	510 U	540 U
2,6-Dinitrotoluene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-256-SA6-SS-0.0-0.5	SL-256-SA6-SB-2.5-3.5	SL-257-SA6-SB-1.5-2.5	SL-258-SA6-SB-0.0-0.83	SL-261-SA6-SB-1.5-2.5	SL-261-SA6-SB-9.0-10.0	SL-262-SA6-SB-4.0-5.0
Sample Date		07/25/2011	08/26/2011	08/25/2011	09/01/2011	09/06/2011	09/06/2011	09/01/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE208	DE233	DE232	DE237	DE238	DE238	DE237
Start Depth		0	2.5	1.5	0	1.5	9	4
End Depth		0.5	3.5	2.5	0.8	2.5	10	5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	33.4 U	35.0 U	342 U	339 U	42.7	47.9	36.5 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	1.9 U	1.8 U	1.8 UJ Q
2,4-Dinitrotoluene	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
Nitrobenzene	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
Hexachlorobutadiene	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
4-Nitroaniline	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
4-Nitrophenol	ug/kg	510 U	530 U	520 U	500 U	560 U	550 U	540 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
4-Methylphenol	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
4-Chloroaniline	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
Phenol	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	8.3 J L, Z	19 U	21	10 J Z	20 J L	10 J L, Z	8.2 J FD, Z
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	11 J L, Z	19 U	11 J Z	18 U	20 U	20 U	24 J FD, Q
Hexachlorobenzene	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.7 UJ L	1.8 U	0.62 J Z	3.7	1.9 U	1.8 U	1.8 U
2,4-Dichlorophenol	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	54 J Z	--	--	--
Pyrene (8270C SIM)	ug/kg	1.6 J Z	1.8 U	1.2 J Z	--	0.78 J Z	1.8 U	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	18 U	19 U	19 U	18 U	20 U	20 U	20 UJ Q
Dibenzofuran	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.0 J L, Z	1.8 U	1.7 U	11	1.9 U	1.8 U	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.7 U	10	1.9 U	1.8 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.8 J L	1.8 U	2.6	44	0.96 J Z	1.8 U	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	2.4 J L	1.8 U	1.1 J Z	44	1.0 J Z	1.8 U	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	24 J Z	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.9	--	1.9 U	1.8 U	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	1.9 U	1.8 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	35 J Z	--	--	--
Chrysene (8270C SIM)	ug/kg	1.7 J L	1.8 U	1.7	--	0.84 J Z	1.8 U	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	0.92 J L, Z	1.8 U	1.3 J Z	23	1.9 U	1.8 U	1.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-256-SA6-SS-0.0-0.5	SL-256-SA6-SB-2.5-3.5	SL-257-SA6-SB-1.5-2.5	SL-258-SA6-SB-0.0-0.83	SL-261-SA6-SB-1.5-2.5	SL-261-SA6-SB-9.0-10.0	SL-262-SA6-SB-4.0-5.0
Sample Date		07/25/2011	08/26/2011	08/25/2011	09/01/2011	09/06/2011	09/06/2011	09/01/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE208	DE233	DE232	DE237	DE238	DE238	DE237
Start Depth		0	2.5	1.5	0	1.5	9	4
End Depth		0.5	3.5	2.5	0.8	2.5	10	5
2,4-Dinitrophenol	ug/kg	1000 U	1100 U	1000 U	1000 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	510 U	530 U	520 U	500 U	560 U	550 U	540 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.7 U	3.9	1.9 U	1.8 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	27 J Z	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	0.99 J Z	1.8 U	1.3 J Z	--	1.9 U	1.8 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
Aniline	ug/kg	510 U	530 U	520 U	500 U	560 U	550 U	540 U
Benzoic Acid	ug/kg	510 U	530 U	520 U	500 U	560 U	550 U	540 U
Hexachloroethane	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	510 U	530 U	520 U	500 U	560 U	550 U	540 U
Isophorone	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.7 U	0.68 J Z	1.9 U	1.8 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	18 U	19 U	19 U	18 U	20 U	20 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	18 UJ L	19 U	19 U	18 U	20 U	20 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.4 J L, Z	1.8 U	1.7 U	14	1.9 U	1.8 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	18 R L	19 U	19 U	18 U	20 U	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	1.9 U	1.8 U	1.8 U
Carbazole	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
Pentachlorophenol	ug/kg	510 U	530 U	520 U	500 U	560 U	550 U	540 U
2,4,6-Trichlorophenol	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
2-Nitroaniline	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
2-Nitrophenol	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	1.9 U	1.8 U	1.8 UJ Q
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	0.68 J Z	1.8 U	1.7 U	1.7 U	0.93 J Z	1.8 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	1.9 U	1.8 U	1.8 U
2-Chloronaphthalene	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	340 U	350 U	340 U	330 U	370 U	370 U	360 U
Benzidine	ug/kg	3400 U	3500 U	3400 U	3300 U	3700 U	3700 U	3600 R Q
2-Methylphenol	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
2-Chlorophenol	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
3-Nitroaniline	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
Benzyl Alcohol	ug/kg	510 U	530 U	520 U	500 U	560 U	550 U	540 U
2,6-Dinitrotoluene	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	180 U	170 U	170 U	190 U	180 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-263-SA6-SB-4.0-5.0	SL-263-SA6-SB-9.0-10.0	SL-264-SA6-SB-0.4-1.4	SL-265-SA6-SB-4.0-5.0	SL-266-SA6-SB-4.0-5.0	SL-267-SA6-SB-4.0-5.0	SL-267-SA6-SB-9.0-10.0
Sample Date		09/06/2011	09/06/2011	09/01/2011	10/11/2011	09/01/2011	08/30/2011	08/30/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE238	DE238	DE237	DE266	DE237	DE235	DE235
Start Depth		4	9	0.4	4	4	4	9
End Depth		5	10	1.4	5	5	5	10
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	36.4 U	37.0 U	34.6 U	361 U	36.4 U	34.1 U	35.2 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.7 U	1.8 U
2,4-Dinitrotoluene	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
Nitrobenzene	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
1,4-Dichlorobenzene	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
1,2,4-Trichlorobenzene	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
1,3-Dichlorobenzene	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
Hexachlorobutadiene	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
1,2-Dichlorobenzene	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
4-Nitroaniline	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
4-Nitrophenol	ug/kg	550 U	560 U	510 U	540 U	540 U	510 U	520 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
2,4-Dimethylphenol	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
4-Methylphenol	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
4-Chloroaniline	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
3,5-Dimethylphenol	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
Phenol	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	20 U	19 U	6.7 J Z	20 U	6.9 J Z	19 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	20 U	19 U	20 U	20 U	6.8 J Z	19 U
Hexachlorobenzene	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.7 U	1.8 U
2,4-Dichlorophenol	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
1,2-Diphenylhydrazine	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.7 U	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	20 U	19 U	20 U	20 U	19 U	19 U
Dibenzofuran	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.7 U	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.7 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.7 U	0.89 J Z
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.7 U	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.7 U	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.7 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	0.72 J Z	1.8 U	1.7 U	0.47 J Z
bis(2-Chloroisopropyl) ether	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.7 U	1.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-263-SA6-SB-4.0-5.0	SL-263-SA6-SB-9.0-10.0	SL-264-SA6-SB-0.4-1.4	SL-265-SA6-SB-4.0-5.0	SL-266-SA6-SB-4.0-5.0	SL-267-SA6-SB-4.0-5.0	SL-267-SA6-SB-9.0-10.0
Sample Date		09/06/2011	09/06/2011	09/01/2011	10/11/2011	09/01/2011	08/30/2011	08/30/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE238	DE238	DE237	DE266	DE237	DE235	DE235
Start Depth		4	9	0.4	4	4	4	9
End Depth		5	10	1.4	5	5	5	10
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1000 U	1100 U	1100 U	1000 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	560 U	510 U	540 UJ L	540 U	510 U	520 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.7 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.7 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
Aniline	ug/kg	550 U	560 U	510 U	540 U	540 U	510 U	520 U
Benzoic Acid	ug/kg	550 U	560 U	510 U	540 U	540 U	510 U	520 U
Hexachloroethane	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
4-Chlorophenyl Phenylether	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
Hexachlorocyclopentadiene	ug/kg	550 U	560 U	510 U	540 U	540 U	510 U	520 U
Isophorone	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.7 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	20 U	19 U	20 U	20 U	19 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	20 U	19 U	20 U	20 U	19 U	19 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.7 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	20 U	19 U	20 U	20 U	19 U	19 U
N-Nitrosodiphenylamine	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.7 U	1.8 U
Carbazole	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
Pentachlorophenol	ug/kg	550 U	560 U	510 U	540 U	540 U	510 U	520 U
2,4,6-Trichlorophenol	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
2-Nitroaniline	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
2-Nitrophenol	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.7 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.7 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.7 U	1.8 U
2-Chloronaphthalene	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
3,3`-Dichlorobenzidine	ug/kg	370 U	380 U	340 U	360 U	360 U	340 U	350 U
Benzidine	ug/kg	3700 U	3800 U	3400 U	3600 U	3600 U	3400 U	3500 U
2-Methylphenol	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
2-Chlorophenol	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
2,4,5-Trichlorophenol	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
3-Nitroaniline	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
Benzyl Alcohol	ug/kg	550 U	560 U	510 U	540 U	540 U	510 U	520 U
2,6-Dinitrotoluene	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	180 U	190 U	170 U	180 U	180 U	170 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-268-SA6-SS-0.0-0.5	SL-268-SA6-SB-4.0-5.0	SL-269-SA6-SB-1.5-2.5	SL-270-SA6-SB-2.0-3.0	SL-273-SA6-SB-4.0-5.0	SL-273-SA6-SB-9.0-10.0	SL-275-SA6-SB-4.0-5.0
Sample Date		07/25/2011	10/06/2011	09/12/2011	08/31/2011	08/08/2011	08/08/2011	07/12/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE208	DE263	DE241	DE236	DE219	DE219	DE198
Start Depth		0	4	1.5	2	4	9	4
End Depth		0.5	5	2.5	3	5	10	5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	331 U	34.9 U	34.1 U	35.3 U	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	8.4 U	8.7 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U
2,4-Dinitrotoluene	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
Nitrobenzene	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
1,4-Dichlorobenzene	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
1,2,4-Trichlorobenzene	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
1,3-Dichlorobenzene	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
Hexachlorobutadiene	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
1,2-Dichlorobenzene	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
4-Nitroaniline	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
4-Nitrophenol	ug/kg	5000 U	520 U	510 U	530 U	540 U	570 U	530 U
4-Bromophenyl Phenyl Ether	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
2,4-Dimethylphenol	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
4-Methylphenol	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
4-Chloroaniline	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
3,5-Dimethylphenol	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
Phenol	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	1700 U	170 U	170 U	180 U	180 UJ L	190 UJ L	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	91 U	94 U B	19 U	19 U	19 U	20 U	19 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	170 U	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	91 U	--	19 U	19 U	19 U	20 U	19 U
Hexachlorobenzene	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	22 J L	8.7 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U
2,4-Dichlorophenol	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
1,2-Diphenylhydrazine	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	400	8.7 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	170 U	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	91 U	--	19 U	19 U	19 U	20 U	19 U
Dibenzofuran	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	190 J Z	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	--	8.7 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	60 J L	8.7 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	360 J L	8.7 U	1.7 U	1.8 U	1.8 U	1.1 J Z	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	530 J L	8.7 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	130 J L	8.7 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	8.4 U	8.7 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U
Chrysene (8270C)	ug/kg	350 J Z	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	--	2.1 J Z	1.7 U	0.56 J Z	1.8 U	1.9 U	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	210 J L	8.7 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-268-SA6-SS-0.0-0.5	SL-268-SA6-SB-4.0-5.0	SL-269-SA6-SB-1.5-2.5	SL-270-SA6-SB-2.0-3.0	SL-273-SA6-SB-4.0-5.0	SL-273-SA6-SB-9.0-10.0	SL-275-SA6-SB-4.0-5.0
Sample Date		07/25/2011	10/06/2011	09/12/2011	08/31/2011	08/08/2011	08/08/2011	07/12/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE208	DE263	DE241	DE236	DE219	DE219	DE198
Start Depth		0	4	1.5	2	4	9	4
End Depth		0.5	5	2.5	3	5	10	5
2,4-Dinitrophenol	ug/kg	10000 U	1000 U	1000 U	1100 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	5000 U	520 U	510 UJ L	530 U	540 UJ L	570 UJ L	530 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	21 J L	8.7 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	310	8.7 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
Aniline	ug/kg	5000 U	520 U	510 U	530 U	540 U	570 U	530 U
Benzoic Acid	ug/kg	5000 U	520 U	510 UJ L	530 U	540 UJ L	570 UJ L	530 U
Hexachloroethane	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
4-Chlorophenyl Phenylether	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
Hexachlorocyclopentadiene	ug/kg	5000 U	520 U	510 U	530 U	540 U	570 U	530 U
Isophorone	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	8.4 U	8.7 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	170 U	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	91 U	--	19 U	19 U	19 U	20 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	--	170 U	--	--	--	--	180 U
Di-n-Butylphthalate (8270C SIM)	ug/kg	91 UJ L	--	19 U	19 U	19 U	20 U	--
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	45 J L	8.7 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	170 U	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	91 R L	--	19 U	19 U	19 U	20 U	19 U
N-Nitrosodiphenylamine	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	8.4 U	8.7 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U
Carbazole	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
Pentachlorophenol	ug/kg	5000 U	520 U	510 U	530 U	540 U	570 U	530 U
2,4,6-Trichlorophenol	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
2-Nitroaniline	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
2-Nitrophenol	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	8.4 U	8.7 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	8.4 U	8.7 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	8.4 U	8.7 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U
2-Chloronaphthalene	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
3,3`-Dichlorobenzidine	ug/kg	3400 U	350 U	340 U	350 U	360 U	380 U	350 U
Benzidine	ug/kg	34000 U	3500 U	3400 U	3500 U	3600 U	3800 U	3500 U
2-Methylphenol	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
2-Chlorophenol	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
2,4,5-Trichlorophenol	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
3-Nitroaniline	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
Benzyl Alcohol	ug/kg	5000 U	520 U	510 U	530 U	540 U	570 U	530 U
2,6-Dinitrotoluene	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	1700 U	170 U	170 U	180 U	180 U	190 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-275-SA6-SB-9.0-10.0	SL-276-SA6-SB-4.0-5.0	SL-276-SA6-SB-9.0-10.0	SL-278-SA6-SS-0.0-0.5	SL-279-SA6-SS-0.0-0.5	SL-279-SA6-SB-1.0-2.0	SL-279-SA6-SB-4.0-5.0
Sample Date		07/12/2011	07/12/2011	07/12/2011	07/13/2011	07/13/2011	08/22/2011	08/22/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE198	DE198	DE198	DE199	DE199	DE229	DE229
Start Depth		9	4	9	0	0	1	4
End Depth		10	5	10	0.5	0.5	2	5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	361 U	36.2 U	3420 U	--	34.8 U	35.3 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	9.0 U	1.8 U	43 U	1.7 U	1.7 U	1.8 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
Nitrobenzene	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
Hexachlorobutadiene	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
4-Nitroaniline	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
4-Nitrophenol	ug/kg	550 U	540 U	540 U	5100 U	520 U	510 U	520 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
4-Methylphenol	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
4-Chloroaniline	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
Phenol	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	360 U	28 J Z	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	20 U B	460 U B	19 U B	19 U	19 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	180 U	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	--	20 U	170 J Z	8.0 J Z	19 U	19 U
Hexachlorobenzene	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.8 U	9.0 U	1.8 U	43 U	1.7 U	1.7 U	1.8 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	5.2 J Z	1.8 U	43 U	4.3	1.7 U	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	180 U	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	--	20 U	460 U	19 U	19 U	19 U
Dibenzofuran	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.8 U	6.7 J Z	1.8 U	33 J Z, C	2.3 J C	1.7 U	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.8 U	9.0 U	1.8 U	43 UJ C	2.4 J C	1.7 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.8 U	7.8 J L, Z	1.8 U	36 J Z	12	1.7 U	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	5.5 J Z	1.8 U	43 U	6.1	1.7 U	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.8 U	9.0 U	1.8 U	43 UJ C	4.0 J C	1.7 U	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	9.0 U	1.8 U	43 U	1.7 U	1.7 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.8 U	3.9 J Z	1.8 U	23 J Z	5.6	1.7 U	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.8 U	5.1 J Z	1.8 U	43 UJ C	5.5 J C	1.7 U	1.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-275-SA6-SB-9.0-10.0	SL-276-SA6-SB-4.0-5.0	SL-276-SA6-SB-9.0-10.0	SL-278-SA6-SS-0.0-0.5	SL-279-SA6-SS-0.0-0.5	SL-279-SA6-SB-1.0-2.0	SL-279-SA6-SB-4.0-5.0
Sample Date		07/12/2011	07/12/2011	07/12/2011	07/13/2011	07/13/2011	08/22/2011	08/22/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE198	DE198	DE198	DE199	DE199	DE229	DE229
Start Depth		9	4	9	0	0	1	4
End Depth		10	5	10	0.5	0.5	2	5
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 U	10000 UJ L	1000 UJ L	1000 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	540 U	540 U	5100 UJ L	520 UJ L	510 UJ L	520 UJ L
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	9.0 U	1.8 U	43 UJ C	0.86 J Z, C	1.7 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.8 U	4.8 J Z	1.8 U	43 U	5.4	1.7 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
Aniline	ug/kg	550 U	540 U	540 U	5100 U	520 U	510 U	520 U
Benzoic Acid	ug/kg	550 U	540 U	540 U	5100 UJ L	520 UJ L	510 U	520 U
Hexachloroethane	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
Hexachlorocyclopentadiene	ug/kg	550 U	540 U	540 U	5100 U	520 U	510 U	520 U
Isophorone	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	9.0 U	1.8 U	43 U	1.7 U	1.7 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	180 U	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	--	20 U	460 U	19 U	19 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	180 U	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	98 U B	20 U B	460 U	19 U B	19 U	19 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	9.0 U	1.8 U	43 U	1.0 J Z	1.7 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	180 U	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	--	20 U	460 U	6.3 J Z	19 U	19 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.8 U	9.0 U	1.8 U	43 U	1.7 U	1.7 U	1.8 U
Carbazole	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
Pentachlorophenol	ug/kg	550 U	540 U	540 U	5100 U	520 U	510 U	520 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
2-Nitroaniline	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
2-Nitrophenol	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	9.0 U	1.8 U	43 U	1.7 U	1.7 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.8 U	9.0 U	1.8 U	43 U	1.7 U	1.7 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	9.0 U	1.8 U	43 U	1.7 U	1.7 U	1.8 U
2-Chloronaphthalene	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
3,3`-Dichlorobenzidine	ug/kg	360 U	360 U	360 U	3400 U	340 U	340 U	350 U
Benzidine	ug/kg	3600 U	3600 U	3600 U	34000 UJ C	3400 U	3400 U	3500 U
2-Methylphenol	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
2-Chlorophenol	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
3-Nitroaniline	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
Benzyl Alcohol	ug/kg	550 U	540 U	540 U	5100 U	520 U	510 U	520 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	180 U	180 U	180 U	1700 U	170 U	170 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-279-SA6-SB-9.0-10.0	SL-280-SA6-SS-0.0-0.5	SL-280-SA6-SB-4.0-5.0	SL-281-SA6-SS-0.0-0.5	SL-282-SA6-SS-0.0-0.5	SL-282-SA6-SS-0.0-0.5S	SL-282-SA6-SB-2.5-3.5
Sample Date		08/22/2011	07/12/2011	08/12/2011	07/12/2011	11/30/2011	11/30/2011	11/30/2011
Sample Type		N	N	N	N	N	Split	N
SDG		DE229	DE199	DE223	DE199	DE290	11L003	DE290
Start Depth		9	0	4	0	0	0	2.5
End Depth		10	0.5	5	0.5	0.5	0.5	3.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	36.2 U	348 U	34.9 U	342 U	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	8.7 U	1.7 U	8.5 U	1.8 U	3.6 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
Nitrobenzene	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
Hexachlorobutadiene	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
1,2-Dichlorobenzene	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
4-Nitroaniline	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
4-Nitrophenol	ug/kg	540 U	520 U	520 U	510 U	530 U	710 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
4-Methylphenol	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
4-Chloroaniline	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
Phenol	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	140 J Z	350 U	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	23	94 U B	19 U	92 U B	--	35 U	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	170 U	--	170 U	--	350 U	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	19 U	--	19 U	--	19 U	35 U	20 U
Hexachlorobenzene	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	350 U	--
Anthracene (8270C SIM)	ug/kg	1.8 U	8.7 U	1.7 U	3.3 J Z	1.8 U	0.21 U B	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	140 J Z	350 U	--
Pyrene (8270C SIM)	ug/kg	1.8 U	8.7 U	1.7 U	51	--	7.2	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	170 U	--	170 U	--	350 U	190 U
Dimethylphthalate (8270C SIM)	ug/kg	19 U	--	19 U	--	19 U	35 U	20 U
Dibenzofuran	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	63 J Z	350 U	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.8 U	5.4 J Z, C	1.7 U	35 J C	--	21	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	53 J Z	350 U	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.8 U	8.7 UJ C	1.7 U	28 J C	--	8.9	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	110 J Z	350 U	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	2.3	8.7 U	1.7 U	60	--	18	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	130 J Z	350 U	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	4.2 J Z	1.7 U	52	--	7.1	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	51 J Z	350 U	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.8 U	8.7 UJ C	1.7 U	24 J C	--	5.3	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	350 U	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	8.7 U	1.7 U	8.5 U	1.8 U	3.6 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	84 J Z	350 U	--
Chrysene (8270C SIM)	ug/kg	0.49 J Z	4.5 J Z	1.7 U	41	--	6.6	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	84 J Z	350 U	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.8 U	8.7 UJ C	1.7 U	46 J C	--	13	1.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-279-SA6-SB-9.0-10.0	SL-280-SA6-SS-0.0-0.5	SL-280-SA6-SB-4.0-5.0	SL-281-SA6-SS-0.0-0.5	SL-282-SA6-SS-0.0-0.5	SL-282-SA6-SS-0.0-0.5S	SL-282-SA6-SB-2.5-3.5
Sample Date		08/22/2011	07/12/2011	08/12/2011	07/12/2011	11/30/2011	11/30/2011	11/30/2011
Sample Type		N	N	N	N	N	Split	N
SDG		DE229	DE199	DE223	DE199	DE290	11L003	DE290
Start Depth		9	0	4	0	0	0	2.5
End Depth		10	0.5	5	0.5	0.5	0.5	3.5
2,4-Dinitrophenol	ug/kg	1100 U	1000 R Q, L	1000 UJ L	1000 UJ L	1100 U	710 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	540 UJ L	520 UJ Q, L	520 UJ L	510 UJ L	530 U	710 U	560 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	24 J Z	350 U	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	8.7 UJ C	1.7 U	7.9 J Z, C	--	5.0	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	92 J Z	350 U	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.8 U	8.7 U	1.7 U	34	--	9.0	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
Aniline	ug/kg	540 U	520 U	520 U	510 U	530 U	710 U	560 U
Benzoic Acid	ug/kg	540 U	520 UJ L	520 UJ L	510 UJ L	530 U	1400 U	560 U
Hexachloroethane	ug/kg	180 U	170 UJ Q	170 U	170 U	180 U	350 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
Hexachlorocyclopentadiene	ug/kg	540 U	520 U	520 U	510 U	530 U	1400 U	560 U
Isophorone	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	350 U	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	8.7 U	1.7 U	8.5 U	1.8 U	3.6 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	170 U	--	170 U	--	350 U	--
Diethylphthalate (8270C SIM)	ug/kg	19 U	--	7.9 J Z	--	19 U	35 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	350 U	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	19 U	94 U B	19 U	92 U B	19 U	35 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	20 J Z	--	350 U	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	8.7 U	1.7 U	--	1.8 U	3.6 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	170 U	--	170 U	--	350 U	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	--	19 U	--	19 U	35 U	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	350 U	--
Fluorene (8270C SIM)	ug/kg	1.8 U	8.7 U	1.7 U	8.5 U	1.8 U	3.6 U	1.9 U
Carbazole	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
Pentachlorophenol	ug/kg	540 U	520 U	520 UJ L	510 U	530 U	710 U	560 U
2,4,6-Trichlorophenol	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
2-Nitroaniline	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	--
2-Nitrophenol	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	350 U	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	8.7 U	1.7 U	8.5 U	1.8 U	3.6 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	350 U	--
Naphthalene (8270C SIM)	ug/kg	1.8 U	8.7 U	1.7 U	12	1.8 U	3.6 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	350 U	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	8.7 U	1.7 U	8.5 U	1.8 U	3.6 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
3,3`-Dichlorobenzidine	ug/kg	360 U	350 U	350 U	340 U	350 U	350 U	380 U
Benzidine	ug/kg	3600 U	3500 UJ Q, C	3500 U	3400 UJ C	3500 U	2100 U	3800 U
2-Methylphenol	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
2-Chlorophenol	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
3-Nitroaniline	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
Benzyl Alcohol	ug/kg	540 U	520 U	520 U	510 U	530 U	350 U	560 U
2,6-Dinitrotoluene	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	350 U	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	350 U	--
Tetralin	ug/kg	180 U	170 U	170 U	170 U	180 U	350 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-282-SA6-SB-2.5-3.5S	SL-283-SA6-SS-0.0-0.5	SL-283-SA6-SS-0.0-0.5S	SL-283-SA6-SB-4.0-5.0	SL-283-SA6-SB-4.0-5.0S	SL-283-SA6-SB-9.0-10.0	SL-283-SA6-SB-9.0-10.0S
Sample Date		11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011
Sample Type		Split	N	Split	N	Split	N	Split
SDG		11L003	DE290	11L003	DE290	11L003	DE290	11L003
Start Depth		2.5	0	0	4	4	9	9
End Depth		3.5	0.5	0.5	5	5	10	10
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	--	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
Nitrobenzene	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
Hexachlorobutadiene	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
4-Nitroaniline	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
4-Nitrophenol	ug/kg	370 U	5300 R Q	360 U	530 U	360 U	550 U	370 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
4-Methylphenol	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
4-Chloroaniline	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
Phenol	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	190 U	3500 U	180 U	20 J Z	180 U	--	180 U
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	19 U	--	18 U	--	11 J Z	20 U	18 U
Di-N-Octyl Phthalate (8270C)	ug/kg	190 U	1800 U	180 U	--	180 U	--	180 U
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	19 U	--	18 U	19 U	18 U	20 U	18 U
Hexachlorobenzene	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
Anthracene (8270C)	ug/kg	190 U	1800 U	180 U	--	180 U	--	180 U
Anthracene (8270C SIM)	ug/kg	0.528 U B	--	0.388 U B	1.8 U	0.253 U B	1.8 U	0.255 U B
2,4-Dichlorophenol	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
Pyrene (8270C)	ug/kg	190 U	1800 U	180 U	--	180 U	--	180 U
Pyrene (8270C SIM)	ug/kg	1.9 U	--	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
Dimethylphthalate (8270C)	ug/kg	190 U	1800 U	180 U	--	180 U	--	180 U
Dimethylphthalate (8270C SIM)	ug/kg	19 U	--	18 U	19 U	18 U	20 U	18 U
Dibenzofuran	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	190 U	1800 U	180 U	--	180 U	--	180 U
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	--	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	190 U	1800 U	180 U	--	180 U	--	180 U
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	--	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	190 U	1800 U	180 U	--	180 U	--	180 U
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	--	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
Fluoranthene (8270C)	ug/kg	190 U	1800 U	180 U	--	180 U	--	180 U
Fluoranthene (8270C SIM)	ug/kg	1.9 U	--	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	190 U	1800 U	180 U	--	180 U	--	180 U
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	--	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
Acenaphthylene (8270C)	ug/kg	190 U	1800 U	180 U	--	180 U	--	180 U
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	--	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
Chrysene (8270C)	ug/kg	190 U	1800 U	180 U	--	180 U	--	180 U
Chrysene (8270C SIM)	ug/kg	1.9 U	--	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	190 U	1800 U	180 U	--	180 U	--	180 U
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	--	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-282-SA6-SB-2.5-3.5S	SL-283-SA6-SS-0.0-0.5	SL-283-SA6-SS-0.0-0.5S	SL-283-SA6-SB-4.0-5.0	SL-283-SA6-SB-4.0-5.0S	SL-283-SA6-SB-9.0-10.0	SL-283-SA6-SB-9.0-10.0S
Sample Date		11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011
Sample Type		Split	N	Split	N	Split	N	Split
SDG		11L003	DE290	11L003	DE290	11L003	DE290	11L003
Start Depth		2.5	0	0	4	4	9	9
End Depth		3.5	0.5	0.5	5	5	10	10
2,4-Dinitrophenol	ug/kg	370 U	11000 U	360 U	1100 U	360 U	1100 U	370 U
4,6-Dinitro-2-Methylphenol	ug/kg	370 U	5300 R Q	360 U	530 U	360 U	550 U	370 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	190 U	1800 U	180 U	--	180 U	--	180 U
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	--	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	190 U	1800 U	180 U	--	180 U	--	180 U
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	--	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
Aniline	ug/kg	370 U	5300 R Q	360 U	530 U	360 U	550 U	370 U
Benzoic Acid	ug/kg	750 U	5300 R Q	710 U	530 U	720 U	550 U	730 U
Hexachloroethane	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	750 U	5300 U	710 U	530 U	720 U	550 U	730 U
Isophorone	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
Acenaphthene (8270C)	ug/kg	190 U	1800 U	180 U	--	180 U	--	180 U
Acenaphthene (8270C SIM)	ug/kg	1.9 U	--	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
Diethylphthalate (8270C)	ug/kg	190 U	1800 U	180 U	--	180 U	--	180 U
Diethylphthalate (8270C SIM)	ug/kg	19 U	--	18 U	19 U	18 U	20 U	18 U
Di-n-Butylphthalate (8270C)	ug/kg	190 U	1800 U	180 U	--	180 U	--	180 U
Di-n-Butylphthalate (8270C SIM)	ug/kg	19 U	--	18 U	45	9.4 J Z	20 U	18 U
Phenanthrene (8270C)	ug/kg	190 U	1800 U	180 U	--	180 U	--	180 U
Phenanthrene (8270C SIM)	ug/kg	1.9 U	--	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	190 U	1800 U	180 U	--	180 U	--	180 U
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	--	18 U	19 U	18 U	20 U	18 U
N-Nitrosodiphenylamine	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
Fluorene (8270C)	ug/kg	190 U	1800 U	180 U	--	180 U	--	180 U
Fluorene (8270C SIM)	ug/kg	1.9 U	--	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
Carbazole	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
Pentachlorophenol	ug/kg	370 U	5300 U	360 U	530 U	360 U	550 U	370 U
2,4,6-Trichlorophenol	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
2-Nitroaniline	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
2-Nitrophenol	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	190 U	1800 U	180 U	--	180 U	--	180 U
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	--	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
Naphthalene (8270C)	ug/kg	190 U	1800 U	180 U	--	180 U	--	180 U
Naphthalene (8270C SIM)	ug/kg	1.9 U	--	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	190 U	1800 U	180 U	--	180 U	--	180 U
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	--	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	190 U	3500 U	180 U	360 U	180 U	360 U	180 U
Benzidine	ug/kg	1100 U	35000 R Q	1100 R Q	3600 U	1100 U	3600 U	1100 U
2-Methylphenol	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
2-Chlorophenol	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
3-Nitroaniline	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
Benzyl Alcohol	ug/kg	190 U	5300 R Q	180 U	530 U	180 U	550 U	180 U
2,6-Dinitrotoluene	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U
2-butoxy-Ethanol	ug/kg	190 U	--	180 U	--	180 U	--	180 U
2-phenoxy-Ethanol	ug/kg	190 U	--	180 U	--	180 U	--	180 U
Tetralin	ug/kg	190 U	1800 U	180 U	180 U	180 U	180 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-283-SA6-SB-14.0-15.0	SL-283-SA6-SB-14.0-15.0S	SL-283-SA6-SB-18.0-19.0	SL-283-SA6-SB-18.0-19.0S	SL-284-SA6-SS-0.0-0.5	SL-284-SA6-SS-0.0-0.5S	SL-284-SA6-SB-4.0-5.0
Sample Date		11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011
Sample Type		N	Split	N	Split	N	Split	N
SDG		DE290	11L003	DE290	11L003	DE290	11L003	DE290
Start Depth		14	14	18	18	0	0	4
End Depth		15	15	19	19	0.5	0.5	5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	36.6 U	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	--	1.9 U	1.8 U	1.9 U	--	3.7 U	1.8 U
2,4-Dinitrotoluene	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
Nitrobenzene	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
1,4-Dichlorobenzene	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
1,2,4-Trichlorobenzene	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
1,3-Dichlorobenzene	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
Hexachlorobutadiene	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
1,2-Dichlorobenzene	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
4-Nitroaniline	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
4-Nitrophenol	ug/kg	540 U	370 U	550 U	380 U	2700 U	730 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
2,4-Dimethylphenol	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
4-Methylphenol	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
4-Chloroaniline	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
3,5-Dimethylphenol	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
Phenol	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	360 U	190 U	--	190 U	1800 UJ FD	370 U	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	19 U	20 U	19 U	--	37 UJ FD	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	180 U	190 U	--	190 U	910 U	370 U	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	19 U	20 U	19 U	--	37 U	20 U
Hexachlorobenzene	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
Anthracene (8270C)	ug/kg	180 U	190 U	--	190 U	910 UJ FD	370 U	--
Anthracene (8270C SIM)	ug/kg	--	0.241 U B	1.8 U	0.218 U B	--	0.215 U B	1.8 U
2,4-Dichlorophenol	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
1,2-Diphenylhydrazine	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
Pyrene (8270C)	ug/kg	180 U	190 U	--	190 U	910 U	370 U	--
Pyrene (8270C SIM)	ug/kg	--	1.9 U	1.8 U	1.9 U	--	3.7 UJ FD	1.8 U
Dimethylphthalate (8270C)	ug/kg	180 U	190 U	--	190 U	910 U	370 U	--
Dimethylphthalate (8270C SIM)	ug/kg	--	19 U	20 U	19 U	--	37 U	20 U
Dibenzofuran	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	180 U	190 U	--	190 U	910 UJ FD	370 U	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	--	1.9 U	1.8 U	1.9 U	--	3.7 UJ FD	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	180 U	190 U	--	190 U	910 UJ FD	370 U	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	--	1.9 U	1.8 U	1.9 U	--	3.7 UJ FD	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	180 U	190 U	--	190 U	910 UJ FD	370 U	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	--	1.9 U	1.8 U	1.9 U	--	3.7 UJ FD	1.8 U
Fluoranthene (8270C)	ug/kg	180 U	190 U	--	190 U	910 U	370 U	--
Fluoranthene (8270C SIM)	ug/kg	--	1.9 U	1.8 U	1.9 U	--	3.7 UJ FD	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	180 U	190 U	--	190 U	910 U	370 U	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	--	1.9 U	1.8 U	1.9 U	--	3.7 UJ FD	1.8 U
Acenaphthylene (8270C)	ug/kg	180 U	190 U	--	190 U	910 U	370 U	--
Acenaphthylene (8270C SIM)	ug/kg	--	1.9 U	1.8 U	1.9 U	--	3.7 U	1.8 U
Chrysene (8270C)	ug/kg	180 U	190 U	--	190 U	910 UJ FD	370 U	--
Chrysene (8270C SIM)	ug/kg	--	1.9 U	1.8 U	1.9 U	--	3.7 UJ FD	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	180 U	190 U	--	190 U	910 UJ FD	370 U	--
Benzo(a)pyrene (8270C SIM)	ug/kg	--	1.9 U	1.8 U	1.9 U	--	3.7 UJ FD	1.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-283-SA6-SB-14.0-15.0	SL-283-SA6-SB-14.0-15.0S	SL-283-SA6-SB-18.0-19.0	SL-283-SA6-SB-18.0-19.0S	SL-284-SA6-SS-0.0-0.5	SL-284-SA6-SS-0.0-0.5S	SL-284-SA6-SB-4.0-5.0
Sample Date		11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011
Sample Type		N	Split	N	Split	N	Split	N
SDG		DE290	11L003	DE290	11L003	DE290	11L003	DE290
Start Depth		14	14	18	18	0	0	4
End Depth		15	15	19	19	0.5	0.5	5
2,4-Dinitrophenol	ug/kg	1100 U	370 U	1100 U	380 U	5500 U	730 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	540 U	370 U	550 U	380 U	2700 U	730 U	550 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	180 U	190 U	--	190 U	910 U	370 U	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	--	1.9 U	1.8 U	1.9 U	--	3.7 UJ FD	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	180 U	190 U	--	190 U	910 U	370 U	--
Benzo(a)anthracene (8270C SIM)	ug/kg	--	1.9 U	1.8 U	1.9 U	--	3.7 UJ FD	1.8 U
4-Chloro-3-Methylphenol	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
Aniline	ug/kg	540 U	370 U	550 U	380 U	2700 U	730 U	550 U
Benzoic Acid	ug/kg	540 U	740 U	550 U	760 U	2700 U	1500 U	550 U
Hexachloroethane	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
4-Chlorophenyl Phenylether	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
Hexachlorocyclopentadiene	ug/kg	540 U	740 U	550 U	760 U	2700 U	1500 U	550 U
Isophorone	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
Acenaphthene (8270C)	ug/kg	180 U	190 U	--	190 U	910 U	370 U	--
Acenaphthene (8270C SIM)	ug/kg	--	1.9 U	1.8 U	1.9 U	--	3.7 U	1.8 U
Diethylphthalate (8270C)	ug/kg	180 U	190 U	--	190 U	910 U	370 U	--
Diethylphthalate (8270C SIM)	ug/kg	--	19 U	20 U	19 U	--	37 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	180 U	190 U	--	190 U	910 U	370 U	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	19 U	11 J Z	19 U	--	37 UJ FD	20 U
Phenanthrene (8270C)	ug/kg	180 U	190 U	--	190 U	910 U	370 U	--
Phenanthrene (8270C SIM)	ug/kg	--	1.9 U	1.8 U	1.9 U	--	3.7 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	180 U	190 U	--	190 U	910 U	370 U	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	19 U	20 U	19 U	--	37 U	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
Fluorene (8270C)	ug/kg	180 U	190 U	--	190 U	910 U	370 U	--
Fluorene (8270C SIM)	ug/kg	--	1.9 U	1.8 U	1.9 U	--	3.7 U	1.8 U
Carbazole	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
Pentachlorophenol	ug/kg	540 U	370 U	550 U	380 U	2700 U	730 U	550 U
2,4,6-Trichlorophenol	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
2-Nitroaniline	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
2-Nitrophenol	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	180 U	190 U	--	190 U	910 U	370 U	--
1-Methylnaphthalene (8270C SIM)	ug/kg	--	1.9 U	1.8 U	1.9 U	--	3.7 U	1.8 U
Naphthalene (8270C)	ug/kg	180 U	190 U	--	190 U	910 U	370 U	--
Naphthalene (8270C SIM)	ug/kg	--	1.9 U	1.8 U	1.9 U	--	3.7 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	180 U	190 U	--	190 U	910 U	370 U	--
2-Methylnaphthalene (8270C SIM)	ug/kg	--	1.9 U	1.8 U	1.9 U	--	3.7 U	1.8 U
2-Chloronaphthalene	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
3,3`-Dichlorobenzidine	ug/kg	360 U	190 U	370 U	190 U	1800 U	370 U	360 U
Benzidine	ug/kg	3600 U	1100 U	3700 U	1100 U	18000 U	2200 U	3600 U
2-Methylphenol	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
2-Chlorophenol	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
2,4,5-Trichlorophenol	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
3-Nitroaniline	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
Benzyl Alcohol	ug/kg	540 U	190 U	550 U	190 U	2700 U	370 U	550 U
2,6-Dinitrotoluene	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U
2-butoxy-Ethanol	ug/kg	--	190 U	--	190 U	--	370 U	--
2-phenoxy-Ethanol	ug/kg	--	190 U	--	190 U	--	370 U	--
Tetralin	ug/kg	180 U	190 U	180 U	190 U	910 U	370 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-284-SA6-SB-4.0-5.0S	SL-284-SA6-SB-9.0-10.0	SL-284-SA6-SB-9.0-10.0S	SL-284-SA6-SB-14.0-15.0	SL-284-SA6-SB-14.0-15.0S	SL-284-SA6-SB-15.5-16.5	SL-284-SA6-SB-15.5-16.5S
Sample Date		11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011
Sample Type		Split	N	Split	N	Split	N	Split
SDG		11L003	DE290	11L003	DE290	11L003	DE290	11L003
Start Depth		4	9	9	14	14	15.5	15.5
End Depth		5	10	10	15	15	16.5	16.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
Nitrobenzene	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
Hexachlorobutadiene	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
4-Nitroaniline	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
4-Nitrophenol	ug/kg	360 U	530 U	360 U	560 U	380 U	570 U	380 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
4-Methylphenol	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
4-Chloroaniline	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
Phenol	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	180 U	--	180 U	19 J Z	190 U	--	190 U
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	18 U	19 U	12 J Z	--	19 U	20 U	19 U
Di-N-Octyl Phthalate (8270C)	ug/kg	180 U	--	180 U	--	190 U	--	190 U
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	18 U	19 U	18 U	20 U	19 U	20 U	19 U
Hexachlorobenzene	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
Anthracene (8270C)	ug/kg	180 U	--	180 U	--	190 U	--	190 U
Anthracene (8270C SIM)	ug/kg	0.235 U B	1.8 U	0.204 U B	1.9 U	0.247 U B	1.9 U	0.217 U B
2,4-Dichlorophenol	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
Pyrene (8270C)	ug/kg	180 U	--	180 U	--	190 U	--	190 U
Pyrene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Dimethylphthalate (8270C)	ug/kg	180 U	--	180 U	--	190 U	--	190 U
Dimethylphthalate (8270C SIM)	ug/kg	18 U	19 U	18 U	20 U	19 U	20 U	19 U
Dibenzofuran	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	180 U	--	180 U	--	190 U	--	190 U
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	180 U	--	180 U	--	190 U	--	190 U
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	180 U	--	180 U	--	190 U	--	190 U
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.3 J Z	1.9 U
Fluoranthene (8270C)	ug/kg	180 U	--	180 U	--	190 U	--	190 U
Fluoranthene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	180 U	--	180 U	--	190 U	--	190 U
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.0 J Z	1.9 U
Acenaphthylene (8270C)	ug/kg	180 U	--	180 U	--	190 U	--	190 U
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Chrysene (8270C)	ug/kg	180 U	--	180 U	--	190 U	--	190 U
Chrysene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	180 U	--	180 U	--	190 U	--	190 U
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-284-SA6-SB-4.0-5.0S	SL-284-SA6-SB-9.0-10.0	SL-284-SA6-SB-9.0-10.0S	SL-284-SA6-SB-14.0-15.0	SL-284-SA6-SB-14.0-15.0S	SL-284-SA6-SB-15.5-16.5	SL-284-SA6-SB-15.5-16.5S
Sample Date		11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011
Sample Type		Split	N	Split	N	Split	N	Split
SDG		11L003	DE290	11L003	DE290	11L003	DE290	11L003
Start Depth		4	9	9	14	14	15.5	15.5
End Depth		5	10	10	15	15	16.5	16.5
2,4-Dinitrophenol	ug/kg	360 U	1100 U	360 U	1100 U	380 U	1100 U	380 U
4,6-Dinitro-2-Methylphenol	ug/kg	360 U	530 U	360 U	560 U	380 U	570 U	380 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	180 U	--	180 U	--	190 U	--	190 U
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	180 U	--	180 U	--	190 U	--	190 U
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
Aniline	ug/kg	360 U	530 U	360 U	560 U	380 U	570 U	380 U
Benzoic Acid	ug/kg	730 U	530 U	710 U	560 U	760 U	570 U	760 U
Hexachloroethane	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	730 U	530 U	710 U	560 U	760 U	570 U	760 U
Isophorone	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	180 U	--	180 U	--	190 U	--	190 U
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Diethylphthalate (8270C)	ug/kg	180 U	--	180 U	--	190 U	--	190 U
Diethylphthalate (8270C SIM)	ug/kg	18 U	19 U	18 U	20 U	19 U	20 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	180 U	--	180 U	--	190 U	--	190 U
Di-n-Butylphthalate (8270C SIM)	ug/kg	18 U	19 U	18 U	20 U	19 U	20 U	19 U
Phenanthrene (8270C)	ug/kg	180 U	--	180 U	--	190 U	--	190 U
Phenanthrene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	180 U	--	180 U	--	190 U	--	190 U
Butylbenzylphthalate (8270C SIM)	ug/kg	18 U	19 U	18 U	20 U	19 U	20 U	19 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
Fluorene (8270C)	ug/kg	180 U	--	180 U	--	190 U	--	190 U
Fluorene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Carbazole	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
Pentachlorophenol	ug/kg	360 U	530 U	360 U	560 U	380 U	570 U	380 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
2-Nitroaniline	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
2-Nitrophenol	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	180 U	--	180 U	--	190 U	--	190 U
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Naphthalene (8270C)	ug/kg	180 U	--	180 U	--	190 U	--	190 U
Naphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.9 U	1.1 J Z	1.9 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	180 U	--	180 U	--	190 U	--	190 U
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	180 U	350 U	180 U	370 U	190 U	380 U	190 U
Benzidine	ug/kg	1100 U	3500 U	1100 U	3700 U	1100 U	3800 U	1100 U
2-Methylphenol	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
2-Chlorophenol	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
3-Nitroaniline	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
Benzyl Alcohol	ug/kg	180 U	530 U	180 U	560 U	190 U	570 U	190 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U
2-butoxy-Ethanol	ug/kg	180 U	--	180 U	--	190 U	--	190 U
2-phenoxy-Ethanol	ug/kg	180 U	--	180 U	--	190 U	--	190 U
Tetralin	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-285-SA6-SS-0.0-0.5	SL-285-SA6-SS-0.0-0.5S	SL-285-SA6-SB-4.0-5.0	SL-285-SA6-SB-4.0-5.0S	SL-285-SA6-SB-6.0-7.0	SL-285-SA6-SB-6.0-7.0S	SL-286-SA6-SS-0.0-0.5
Sample Date		11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011	07/14/2011
Sample Type		N	Split	N	Split	N	Split	N
SDG		DE290	11L003	DE290	11L003	DE290	11L003	DE201
Start Depth		0	0	4	4	6	6	0
End Depth		0.5	0.5	5	5	7	7	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	34.7 U	--	35.3 U	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
Nitrobenzene	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
Hexachlorobutadiene	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
4-Nitroaniline	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
4-Nitrophenol	ug/kg	530 U	360 U	520 U	350 U	530 U	350 U	500 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
4-Methylphenol	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
4-Chloroaniline	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
Phenol	ug/kg	180 U	180 U	0.325 UJ E, B, Q	170 U	180 U	180 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	21 J Z	180 U	--	170 U	--	180 U	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	18 U	19	17 U	8.8 J Z	18 U	13 J Z
Di-N-Octyl Phthalate (8270C)	ug/kg	--	180 U	--	170 U	--	180 U	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	19 U	18 U	19 U	17 U	19 U	18 U	18 U
Hexachlorobenzene	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
Anthracene (8270C)	ug/kg	--	180 U	--	170 U	--	180 U	--
Anthracene (8270C SIM)	ug/kg	1.8 U	0.234 U B	1.7 U	0.221 U B	1.8 U	0.222 U B	1.0 J FD, Z
2,4-Dichlorophenol	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
Pyrene (8270C)	ug/kg	--	180 U	--	170 U	--	180 U	30 J Z
Pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	--
Dimethylphthalate (8270C)	ug/kg	--	180 U	--	170 U	--	180 U	--
Dimethylphthalate (8270C SIM)	ug/kg	19 U	18 U	19 U	17 U	19 U	18 U	18 U
Dibenzofuran	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	180 U	--	170 U	--	180 U	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	4.0
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	180 U	--	170 U	--	180 U	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	3.1
Benzo(b)fluoranthene (8270C)	ug/kg	--	180 U	--	170 U	--	180 U	19 J Z
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.0 J Z	--
Fluoranthene (8270C)	ug/kg	--	180 U	--	170 U	--	180 U	35 J Z
Fluoranthene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	--
Benzo(k)fluoranthene (8270C)	ug/kg	--	180 U	--	170 U	--	180 U	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	4.5 J FD
Acenaphthylene (8270C)	ug/kg	--	180 U	--	170 U	--	180 U	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	0.57 J FD, Z
Chrysene (8270C)	ug/kg	--	180 U	--	170 U	--	180 U	19 J Z
Chrysene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	--
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	--	180 U	--	170 U	--	180 U	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	4.5 J FD

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J - Result is an estimated value
R - Result is rejected

Sample Name		SL-285-SA6-SS-0.0-0.5	SL-285-SA6-SS-0.0-0.5S	SL-285-SA6-SB-4.0-5.0	SL-285-SA6-SB-4.0-5.0S	SL-285-SA6-SB-6.0-7.0	SL-285-SA6-SB-6.0-7.0S	SL-286-SA6-SS-0.0-0.5
Sample Date		11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011	07/14/2011
Sample Type		N	Split	N	Split	N	Split	N
SDG		DE290	11L003	DE290	11L003	DE290	11L003	DE201
Start Depth		0	0	4	4	6	6	0
End Depth		0.5	0.5	5	5	7	7	0.5
2,4-Dinitrophenol	ug/kg	1100 U	360 U	1000 U	350 U	1100 U	350 U	1000 UJ Q
4,6-Dinitro-2-Methylphenol	ug/kg	530 U	360 U	520 U	350 U	530 U	350 U	500 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	180 U	--	170 U	--	180 U	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	0.90 J Z
Benzo(a)anthracene (8270C)	ug/kg	--	180 U	--	170 U	--	180 U	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	4.6 J FD
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
Aniline	ug/kg	530 U	360 U	520 U	350 U	530 U	350 U	500 U
Benzoic Acid	ug/kg	530 U	710 U	520 U	700 U	530 U	710 U	500 U
Hexachloroethane	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
Hexachlorocyclopentadiene	ug/kg	530 U	710 U	520 U	700 U	530 U	710 U	500 U
Isophorone	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
Acenaphthene (8270C)	ug/kg	--	180 U	--	170 U	--	180 U	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U
Diethylphthalate (8270C)	ug/kg	--	180 U	--	170 U	--	180 U	--
Diethylphthalate (8270C SIM)	ug/kg	19 U	18 U	19 U	17 U	19 U	18 U	18 U
Di-n-Butylphthalate (8270C)	ug/kg	--	180 U	--	170 U	--	180 U	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	19 U	18 U	19 U	17 U	27	18 U	18 J FD
Phenanthrene (8270C)	ug/kg	--	180 U	--	170 U	--	180 U	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	5.1
Butylbenzylphthalate (8270C)	ug/kg	--	180 U	--	170 U	--	180 U	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	18 U	19 U	17 U	19 U	18 U	7.3 J Z
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
Fluorene (8270C)	ug/kg	--	180 U	--	170 U	--	180 U	--
Fluorene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U
Carbazole	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
Pentachlorophenol	ug/kg	530 U	360 U	520 U	350 U	530 U	350 U	500 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
2-Nitroaniline	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
2-Nitrophenol	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	180 U	--	170 U	--	180 U	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U
Naphthalene (8270C)	ug/kg	--	180 U	--	170 U	--	180 U	--
Naphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 UJ FD
2-Methylnaphthalene (8270C)	ug/kg	--	180 U	--	170 U	--	180 U	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U
2-Chloronaphthalene	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
3,3`-Dichlorobenzidine	ug/kg	360 U	180 U	350 U	170 U	350 U	180 U	340 U
Benzidine	ug/kg	3600 U	1100 U	3500 U	1000 U	3500 U	1100 U	3400 R Q
2-Methylphenol	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
2-Chlorophenol	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
3-Nitroaniline	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
Benzyl Alcohol	ug/kg	530 U	180 U	520 U	170 U	530 U	180 U	500 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U
2-butoxy-Ethanol	ug/kg	--	180 U	--	170 U	--	180 U	--
2-phenoxy-Ethanol	ug/kg	--	180 U	--	170 U	--	180 U	--
Tetralin	ug/kg	180 U	180 U	170 U	170 U	180 U	180 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-289-SA6-SS-0.0-0.5	SL-289-SA6-SB-3.5-4.5	SL-290-SA6-SS-0.0-0.5	SL-291-SA6-SS-0.0-0.5	SL-291-SA6-SB-2.0-3.0	SL-292-SA6-SS-0.0-0.5	SL-293-SA6-SS-0.0-0.5
Sample Date		07/11/2011	07/25/2011	07/12/2011	07/11/2011	08/26/2011	07/11/2011	07/18/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE198	DE208	DE198	DE198	DE233	DE197	DE202
Start Depth		0	3.5	0	0	2	0	0
End Depth		0.5	4.5	0.5	0.5	3	0.5	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	8.8 U	17 U	17 U	8.5 U	17 U	1.7 U
2,4-Dinitrotoluene	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
Nitrobenzene	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
1,4-Dichlorobenzene	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
1,2,4-Trichlorobenzene	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
1,3-Dichlorobenzene	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
Hexachlorobutadiene	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
1,2-Dichlorobenzene	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
4-Nitroaniline	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
4-Nitrophenol	ug/kg	510 U	530 U	500 U	500 U	510 U	510 U	510 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
2,4-Dimethylphenol	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
4-Methylphenol	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
4-Chloroaniline	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
3,5-Dimethylphenol	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
Phenol	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	350 U	--	--	--	880	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	18 U B	--	180 U B	280 U B	150	--	16 J Z
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	170 U	170 U	170 U	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	18 U	64 J L, Z	--	--	--	68 J Z	8.2 J Z
Hexachlorobenzene	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	240	--
Anthracene (8270C SIM)	ug/kg	0.111 UJ B, Q, E	8.8 UJ L	17 U	230	160	--	0.55 J Z
2,4-Dichlorophenol	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
1,2-Diphenylhydrazine	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	2200	--
Pyrene (8270C SIM)	ug/kg	1.7 U	4.4 J Z	9.1 J Z	1500	1000	--	5.0
Dimethylphthalate (8270C)	ug/kg	--	180 U	170 U	170 U	170 U	170 U	--
Dimethylphthalate (8270C SIM)	ug/kg	18 U	--	--	--	--	--	18 U
Dibenzofuran	ug/kg	170 U	180 U	170 U	32 J Z	170 U	26 J Z	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	450	--	660	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.7 U	4.6 J L, Z	17 U	--	94	--	1.4 J Z
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	420	--	650	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.7 U	8.8 U	17 U	--	110	--	1.2 J Z
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	1400	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.7 U	12 J L	8.0 J L, Z	1100 J L	670	--	5.4
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	3000	--
Fluoranthene (8270C SIM)	ug/kg	1.7 U	8.8 UJ L	12 J Z	1900	1100	--	16
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	370	--	620	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.7 U	4.6 J L, Z	17 U	--	290	--	1.9
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	41 J Z	--
Acenaphthylene (8270C SIM)	ug/kg	1.7 U	8.8 U	17 U	5.8 J Z	2.4 J Z	--	1.7 U
Chrysene (8270C)	ug/kg	--	--	--	790	--	1100	--
Chrysene (8270C SIM)	ug/kg	1.7 U	14 J L	5.2 J Z	--	460	--	3.6
bis(2-Chloroisopropyl) ether	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	930	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.7 U	7.2 J L, Z	17 U	750	430	--	3.0

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-289-SA6-SS-0.0-0.5	SL-289-SA6-SB-3.5-4.5	SL-290-SA6-SS-0.0-0.5	SL-291-SA6-SS-0.0-0.5	SL-291-SA6-SB-2.0-3.0	SL-292-SA6-SS-0.0-0.5	SL-293-SA6-SS-0.0-0.5
Sample Date		07/11/2011	07/25/2011	07/12/2011	07/11/2011	08/26/2011	07/11/2011	07/18/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE198	DE208	DE198	DE198	DE233	DE197	DE202
Start Depth		0	3.5	0	0	2	0	0
End Depth		0.5	4.5	0.5	0.5	3	0.5	0.5
2,4-Dinitrophenol	ug/kg	1000 U	1100 U	990 U	1000 U	1000 U	1000 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	510 U	530 U	500 U	500 U	510 U	510 U	510 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	120 J Z	--	180	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.7 U	8.8 U	17 U	--	39	--	1.7 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	740	--	1000	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.7 U	3.9 J Z	17 U	--	430	--	2.7
4-Chloro-3-Methylphenol	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
Aniline	ug/kg	510 U	530 U	500 U	500 U	510 U	510 U	510 U
Benzoic Acid	ug/kg	510 U	530 U	500 U	500 U	510 U	510 U	510 UJ L
Hexachloroethane	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
4-Chlorophenyl Phenylether	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
Hexachlorocyclopentadiene	ug/kg	510 U	530 U	500 U	500 U	510 U	510 U	510 U
Isophorone	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	66 J Z	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	8.8 U	17 U	150	130	--	1.7 U
Diethylphthalate (8270C)	ug/kg	--	180 U	170 U	170 U	170 U	170 U	--
Diethylphthalate (8270C SIM)	ug/kg	18 U	--	--	--	--	--	18 U
Di-n-Butylphthalate (8270C)	ug/kg	--	180 U	--	--	170 U	130 J Z	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	18 U B	--	180 U B	180 U B	--	--	9.4 J Z
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	1600	--
Phenanthrene (8270C SIM)	ug/kg	1.7 U	8.8 U	17 U	1200	810	--	2.6
Butylbenzylphthalate (8270C)	ug/kg	--	180 U	170 U	21 J Z	170 U	25 J Z	--
Butylbenzylphthalate (8270C SIM)	ug/kg	18 U	--	--	--	--	--	8.7 J Z
N-Nitrosodiphenylamine	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	60 J Z	--
Fluorene (8270C SIM)	ug/kg	1.7 U	8.8 U	17 U	81	73	--	1.7 U
Carbazole	ug/kg	170 U	180 U	170 U	100 J Z	170 U	210	170 U
Pentachlorophenol	ug/kg	510 U	530 U	500 U	500 U	510 U	510 U	510 U
2,4,6-Trichlorophenol	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
2-Nitroaniline	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
2-Nitrophenol	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	8.8 U	17 U	11 J Z	11	17 U	1.7 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.7 U	8.8 U	17 U	10 J Z	14	17 U	1.7 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	8.8 U	17 U	9.9 J Z	13	17 U	1.7 U
2-Chloronaphthalene	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
3,3`-Dichlorobenzidine	ug/kg	340 U	350 U	330 U	340 U	340 U	340 U	340 U
Benzidine	ug/kg	3400 U	3500 U	3300 U	3400 U	3400 U	3400 U	3400 U
2-Methylphenol	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
2-Chlorophenol	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
2,4,5-Trichlorophenol	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
3-Nitroaniline	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
Benzyl Alcohol	ug/kg	510 U	530 U	500 U	500 U	510 U	510 U	510 U
2,6-Dinitrotoluene	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-297-SA6-SS-0.0-0.5	SL-298-SA6-SS-0.0-0.5	SL-300-SA6-SS-0.0-0.5	SL-301-SA6-SS-0.0-0.5	SL-301-SA6-SB-4.0-5.0	SL-302-SA6-SS-0.0-0.5	SL-303-SA6-SS-0.0-0.5
Sample Date		07/11/2011	07/11/2011	07/12/2011	07/19/2011	10/05/2011	07/14/2011	07/14/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE197	DE197	DE199	DE203	DE262	DE201	DE201
Start Depth		0	0	0	0	4	0	0
End Depth		0.5	0.5	0.5	0.5	5	0.5	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	343 U	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	17 U	17 U	8.6 U	1.7 U	1.8 U	1.7 U	1.7 U
2,4-Dinitrotoluene	ug/kg	170 UJ Q	170 U	170 U	170 U	180 U	170 U	170 U
Nitrobenzene	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
1,4-Dichlorobenzene	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
1,2,4-Trichlorobenzene	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
1,3-Dichlorobenzene	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
Hexachlorobutadiene	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
1,2-Dichlorobenzene	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
4-Nitroaniline	ug/kg	170 UJ Q	170 U	170 U	170 U	180 U	170 U	170 U
4-Nitrophenol	ug/kg	500 U	510 U	510 U	510 U	530 U	520 U	520 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
2,4-Dimethylphenol	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
4-Methylphenol	ug/kg	170 UJ Q	170 U	170 U	170 U	180 U	170 U	170 U
4-Chloroaniline	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
3,5-Dimethylphenol	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
Phenol	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	170 UJ Q	170 U	170 U	170 U	180 U	170 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	160 J Z	3200	--	--	--	430	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	93 U B	41 U B	31	--	93
Di-N-Octyl Phthalate (8270C)	ug/kg	170 U	180	170 U	--	--	34 J Z	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	--	--	7.3 J Z	19 U	--	19 U
Hexachlorobenzene	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
Anthracene (8270C)	ug/kg	--	--	--	87 J Z	--	--	--
Anthracene (8270C SIM)	ug/kg	47	30	8.6 U	--	1.8 U	13	5.4
2,4-Dichlorophenol	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
1,2-Diphenylhydrazine	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	400	--	--	31 J Z
Pyrene (8270C SIM)	ug/kg	680	290	8.6 U	--	1.8 U	75	--
Dimethylphthalate (8270C)	ug/kg	170 U	170 U	170 U	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	--	--	--	18 U	19 U	19 U	19 U
Dibenzofuran	ug/kg	170 UJ FD	170 U	170 U	22 J Z	180 U	170 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	140 J Z	--	90 J Z	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	540	--	4.8 J Z, C	--	1.8 U	1.5 J Z	2.5
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	130 J Z	--	93 J Z	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	450	--	8.6 UJ C	--	1.8 U	1.6 J Z	1.7
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	260	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	820	280	5.2 J Z	--	1.8 U	34	24
Fluoranthene (8270C)	ug/kg	--	--	--	480	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1100	350	8.6 U	--	0.88 J Z	110	35
Benzo(k)fluoranthene (8270C)	ug/kg	--	100 J Z	--	120 J Z	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	300	--	8.6 UJ C	--	1.7 J Z	14	11
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	9.1 J Z	17 U	8.6 U	1.7 U	1.8 U	4.6	1.3 J Z
Chrysene (8270C)	ug/kg	--	--	--	250	--	--	23 J Z
Chrysene (8270C SIM)	ug/kg	490	180	3.3 J Z	--	0.69 J Z	30	--
bis(2-Chloroisopropyl) ether	ug/kg	170 UJ Q	170 U	170 U	170 U	180 U	170 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	180	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	530 J L	180 J L	8.6 UJ C	--	1.8 U	4.5	3.5

U - Compound not detected above the reporting limit
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R - Result is rejected

Sample Name		SL-297-SA6-SS-0.0-0.5	SL-298-SA6-SS-0.0-0.5	SL-300-SA6-SS-0.0-0.5	SL-301-SA6-SS-0.0-0.5	SL-301-SA6-SB-4.0-5.0	SL-302-SA6-SS-0.0-0.5	SL-303-SA6-SS-0.0-0.5
Sample Date		07/11/2011	07/11/2011	07/12/2011	07/19/2011	10/05/2011	07/14/2011	07/14/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE197	DE197	DE199	DE203	DE262	DE201	DE201
Start Depth		0	0	0	0	4	0	0
End Depth		0.5	0.5	0.5	0.5	5	0.5	0.5
2,4-Dinitrophenol	ug/kg	1000 R Q	1000 U	1000 UJ L	1000 U	1100 U	1000 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	500 UJ Q	510 U	510 UJ L	510 U	530 U	520 U	520 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	36 J Z	--	34 J Z	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	95	--	8.6 UJ C	--	1.8 U	1.7 U	1.7 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	270	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	390	160	8.6 U	--	1.8 U	6.9	3.5
4-Chloro-3-Methylphenol	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
Aniline	ug/kg	500 UJ Q	510 U	510 U	510 U	530 U	520 U	520 U
Benzoic Acid	ug/kg	500 U	510 U	510 UJ L	510 U	530 U	520 U	520 U
Hexachloroethane	ug/kg	170 UJ Q	170 U	170 U	170 U	180 U	170 U	170 U
4-Chlorophenyl Phenylether	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
Hexachlorocyclopentadiene	ug/kg	500 UJ Q	510 U	510 U	510 U	530 U	520 U	520 U
Isophorone	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
Acenaphthene (8270C)	ug/kg	--	--	--	34 J Z	--	--	--
Acenaphthene (8270C SIM)	ug/kg	11 J Z	15 J Z	8.6 U	--	1.8 U	0.87 J Z	1.7 U
Diethylphthalate (8270C)	ug/kg	--	170 U	170 U	--	--	170 U	--
Diethylphthalate (8270C SIM)	ug/kg	--	--	--	18 U	19 U	19 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	170 U	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	180 U B	190 U B	93 U B	--	19 U	7.4 J Z	11 J Z
Phenanthrene (8270C)	ug/kg	--	--	--	340	--	--	--
Phenanthrene (8270C SIM)	ug/kg	310	150	8.6 U	--	1.8 U	100	13
Butylbenzylphthalate (8270C)	ug/kg	170 U	170 U	170 U	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	--	--	8.4 J Z	19 U	13 J Z	31
N-Nitrosodiphenylamine	ug/kg	170 UJ FD	170 U	170 U	170 U	180 U	170 U	170 U
Fluorene (8270C)	ug/kg	--	--	--	27 J Z	--	170 U	--
Fluorene (8270C SIM)	ug/kg	7.5 J Z	8.0 J Z	8.6 U	--	1.8 U	4.6	1.4 J Z
Carbazole	ug/kg	27 J FD, Z	41 J Z	170 U	62 J Z	180 U	170 U	170 U
Pentachlorophenol	ug/kg	500 U	510 U	510 U	510 U	530 U	520 U	520 U
2,4,6-Trichlorophenol	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
2-Nitroaniline	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
2-Nitrophenol	ug/kg	170 UJ Q	170 U	170 U	170 U	180 U	170 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	17 U	17 U	8.6 U	0.69 J Z	1.8 U	2.7	0.87 J Z
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	17 UJ FD	17 U	4.7 J Z	2.2	1.8 U	1.9	2.5
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	17 U	17 U	8.6 U	0.88 J Z	1.8 U	2.6	2.0
2-Chloronaphthalene	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
3,3`-Dichlorobenzidine	ug/kg	340 R Q	340 U	340 U	340 U	350 U	340 U	340 U
Benzidine	ug/kg	3400 R Q	3400 U	3400 UJ C	3400 U	3500 U	3400 U	3400 U
2-Methylphenol	ug/kg	170 UJ Q	170 U	170 U	170 U	180 U	170 U	170 U
2-Chlorophenol	ug/kg	170 UJ Q	170 U	170 U	170 U	180 U	170 U	170 U
2,4,5-Trichlorophenol	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U
3-Nitroaniline	ug/kg	170 UJ Q	170 U	170 U	170 U	180 U	170 U	170 U
Benzyl Alcohol	ug/kg	500 U	510 U	510 U	510 U	530 U	520 U	520 U
2,6-Dinitrotoluene	ug/kg	170 UJ Q	170 U	170 U	170 U	180 U	170 U	170 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	170 U	170 U	170 U	180 U	170 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-304-SA6-SS-0.0-0.5	SL-305-SA6-SS-0.0-0.5	SL-305-SA6-SB-2.0-3.0	SL-306-SA6-SS-0.0-0.5	SL-306-SA6-SB-4.0-5.0	SL-307-SA6-SS-0.0-0.5	SL-308-SA6-SS-0.0-0.5
Sample Date		07/14/2011	08/30/2011	08/30/2011	08/30/2011	08/30/2011	07/22/2011	07/22/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE201	DE235	DE235	DE235	DE235	DE207	DE207
Start Depth		0	0	2	0	4	0	0
End Depth		0.5	0.5	3	0.5	5	0.5	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	343 U	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	44 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U
2,4-Dinitrotoluene	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
Nitrobenzene	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
1,4-Dichlorobenzene	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
1,2,4-Trichlorobenzene	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
1,3-Dichlorobenzene	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
Hexachlorobutadiene	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
1,2-Dichlorobenzene	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
4-Nitroaniline	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
4-Nitrophenol	ug/kg	520 U	11000 U	540 U	510 U	520 U	510 U	510 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
2,4-Dimethylphenol	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
4-Methylphenol	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
4-Chloroaniline	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
3,5-Dimethylphenol	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
Phenol	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	31 J Z	--	--	--	--	150 J Z	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	480 U	20 U	88	7.3 J Z	--	7.0 J Z
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	19 U	480 U	20 U	19 U	6.9 J Z	18 U	18 U
Hexachlorobenzene	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	2.1	44 U	1.8 U	0.66 J Z	1.8 U	1.7 U	1.7 U
2,4-Dichlorophenol	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
1,2-Diphenylhydrazine	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	31 J Z	--
Pyrene (8270C SIM)	ug/kg	9.6	44 U	1.8 U	4.1	1.8 U	--	3.7
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	19 U	480 U	20 U	19 U	19 U	18 U	18 U
Dibenzofuran	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	0.99 J Z	60	1.8 U	3.0	1.8 U	1.7 U	5.97 U B
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	0.83 J Z	44 U	1.8 U	1.3 J Z	1.8 U	1.7 U	1.7 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	7.6	36 J Z	1.8 U	8.8	1.8 U	1.9	2.6
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	42 J Z	--
Fluoranthene (8270C SIM)	ug/kg	13	44 U	1.8 U	4.5	1.8 U	--	4.9
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	7.5	44 U	1.8 U	2.2	1.8 U	1.7 U	0.95 J Z
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	0.48 J Z	44 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	9.3	31 J Z	1.8 U	5.5	1.8 U	2.8	3.6
bis(2-Chloroisopropyl) ether	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.5 J Z	30 J Z	1.8 U	3.3	1.8 U	1.7 U	0.83 J Z

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-304-SA6-SS-0.0-0.5	SL-305-SA6-SS-0.0-0.5	SL-305-SA6-SB-2.0-3.0	SL-306-SA6-SS-0.0-0.5	SL-306-SA6-SB-4.0-5.0	SL-307-SA6-SS-0.0-0.5	SL-308-SA6-SS-0.0-0.5
Sample Date		07/14/2011	08/30/2011	08/30/2011	08/30/2011	08/30/2011	07/22/2011	07/22/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE201	DE235	DE235	DE235	DE235	DE207	DE207
Start Depth		0	0	2	0	4	0	0
End Depth		0.5	0.5	3	0.5	5	0.5	0.5
2,4-Dinitrophenol	ug/kg	1000 U	21000 U	1100 U	1000 U	1000 U	1000 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	520 U	11000 U	540 U	510 U	520 U	510 U	510 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.7 U	44 U	1.8 U	0.70 J Z	1.8 U	1.7 U	1.7 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.7	44 U	1.8 U	2.3	1.8 U	1.7 U	0.86 J Z
4-Chloro-3-Methylphenol	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
Aniline	ug/kg	520 U	11000 U	540 U	510 U	520 U	510 U	510 U
Benzoic Acid	ug/kg	520 U	11000 U	540 U	510 U	520 U	510 U	510 U
Hexachloroethane	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
4-Chlorophenyl Phenylether	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
Hexachlorocyclopentadiene	ug/kg	520 U	11000 U	540 U	510 U	520 U	510 U	510 U
Isophorone	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	44 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	19 U	480 U	20 U	19 U	19 U	18 U	18 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	7.9 J Z	480 U	20 U	19 U	19 U	18 U	18 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	24 J Z	--
Phenanthrene (8270C SIM)	ug/kg	5.6	44 U	1.8 U	1.6 J Z	1.8 U	--	2.5
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	11 J Z	480 U	20 U	19 U	19 U	18 U	18 U
N-Nitrosodiphenylamine	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.5 J Z	44 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U
Carbazole	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
Pentachlorophenol	ug/kg	520 U	11000 U	540 U	510 U	520 U	510 U	510 U
2,4,6-Trichlorophenol	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
2-Nitroaniline	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
2-Nitrophenol	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	44 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.1 J Z	44 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	0.81 J Z	44 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U
2-Chloronaphthalene	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
3,3`-Dichlorobenzidine	ug/kg	350 U	7000 U	360 U	340 U	350 U	340 U	340 U
Benzidine	ug/kg	3500 U	70000 U	3600 U	3400 U	3500 U	3400 U	3400 U
2-Methylphenol	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
2-Chlorophenol	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
2,4,5-Trichlorophenol	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
3-Nitroaniline	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
Benzyl Alcohol	ug/kg	520 U	11000 U	540 U	510 U	520 U	510 U	510 U
2,6-Dinitrotoluene	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	3500 U	180 U	170 U	170 U	170 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-309-SA6-SS-0.0-0.5	SL-310-SA6-SS-0.0-0.5	SL-310-SA6-SB-4.0-5.0	SL-311-SA6-SS-0.0-0.5	SL-311-SA6-SB-2.0-3.0	SL-314-SA6-SS-0.0-0.5	SL-314-SA6-SB-3.0-4.0
Sample Date		07/22/2011	07/20/2011	08/22/2011	07/26/2011	09/07/2011	07/21/2011	08/18/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE207	DE204	DE229	DE209	DE239	DE206	DE227
Start Depth		0	0	4	0	2	0	3
End Depth		0.5	0.5	5	0.5	3	0.5	4
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	337 U	66.4	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	8.4 U	1.8 U	8.5 U	1.8 U	1.7 U	1.8 U
2,4-Dinitrotoluene	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
Nitrobenzene	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
1,4-Dichlorobenzene	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
1,2,4-Trichlorobenzene	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
1,3-Dichlorobenzene	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
Hexachlorobutadiene	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
1,2-Dichlorobenzene	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
4-Nitroaniline	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
4-Nitrophenol	ug/kg	500 U	510 U	560 U	510 U	540 U	510 U	530 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
2,4-Dimethylphenol	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
4-Methylphenol	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
4-Chloroaniline	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
3,5-Dimethylphenol	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
Phenol	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	21 J Z	100 J Z	--	--	53 J Z	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	20 U	380	--	27	19 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	170 U	--	170 U	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	18 U	--	20 U	--	19 U	18 U	19 U
Hexachlorobenzene	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	0.50 J Z	2.4 J Z	1.8 U	4.3 J Z	1.8 U	2.4	1.8 U
2,4-Dichlorophenol	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
1,2-Diphenylhydrazine	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
Pyrene (8270C)	ug/kg	--	41 J Z	--	60 J Z	--	--	--
Pyrene (8270C SIM)	ug/kg	7.2	--	1.8 U	--	1.8 U	29	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	170 U	--	170 U	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	18 U	--	20 U	--	19 U	18 U	19 U
Dibenzofuran	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	42 J Z	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	0.85 J Z	4.0 J Z	1.8 U	--	1.8 U	3.8	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	32 J Z	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.7 U	8.4 U	1.8 U	--	1.8 U	3.2	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	23 J Z	--	49 J Z	--	21 J Z	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	4.3	--	1.8 U	--	1.8 U	--	1.8 U
Fluoranthene (8270C)	ug/kg	--	37 J Z	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	9.2	--	1.8 U	72	1.8 U	34	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	25 J Z	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.6 J Z	5.4 J Z	1.8 U	--	1.8 U	8.5	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.7 U	8.4 U	1.8 U	8.5 U	1.8 U	0.36 J Z	1.8 U
Chrysene (8270C)	ug/kg	--	28 J Z	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	5.7	--	1.8 U	59	1.8 U	21	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	20 J Z	--	32 J Z	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.3 J Z	--	1.8 U	--	1.8 U	10	1.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-309-SA6-SS-0.0-0.5	SL-310-SA6-SS-0.0-0.5	SL-310-SA6-SB-4.0-5.0	SL-311-SA6-SS-0.0-0.5	SL-311-SA6-SB-2.0-3.0	SL-314-SA6-SS-0.0-0.5	SL-314-SA6-SB-3.0-4.0
Sample Date		07/22/2011	07/20/2011	08/22/2011	07/26/2011	09/07/2011	07/21/2011	08/18/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE207	DE204	DE229	DE209	DE239	DE206	DE227
Start Depth		0	0	4	0	2	0	3
End Depth		0.5	0.5	5	0.5	3	0.5	4
2,4-Dinitrophenol	ug/kg	1000 U	1000 U	1100 U	1000 U	1100 U	1000 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	500 U	510 U	560 UJ L	510 U	540 U	510 U	530 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.7 U	8.4 U	1.8 U	3.7 J Z	1.8 U	1.0 J Z	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	26 J Z	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.3 J Z	6.5 J Z	1.8 U	--	1.8 U	13	1.8 U
4-Chloro-3-Methylphenol	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
Aniline	ug/kg	500 U	510 U	560 U	510 U	540 U	510 U	530 U
Benzoic Acid	ug/kg	500 U	510 U	560 U	510 U	540 U	510 U	530 U
Hexachloroethane	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
4-Chlorophenyl Phenylether	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
Hexachlorocyclopentadiene	ug/kg	500 U	510 U	560 U	510 U	540 U	510 U	530 U
Isophorone	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	8.4 U	1.8 U	8.5 U	1.8 U	1.1 J Z	1.8 U
Diethylphthalate (8270C)	ug/kg	--	170 U	--	170 U	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	18 U	--	20 U	--	19 U	18 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	21 J Z	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	18 U	75 J Z	20 U	--	19 U	18 U	19 U
Phenanthrene (8270C)	ug/kg	--	21 J Z	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	4.3	--	1.8 U	27	1.8 U	15	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	170 U	--	170 U	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	18 U	--	20 U	--	19 U	18 U	19 U
N-Nitrosodiphenylamine	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.7 U	8.4 U	1.8 U	8.5 U	1.8 U	0.70 J Z	1.8 U
Carbazole	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
Pentachlorophenol	ug/kg	500 U	510 U	560 U	510 U	540 U	510 U	530 U
2,4,6-Trichlorophenol	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
2-Nitroaniline	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
2-Nitrophenol	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	8.4 U	1.8 U	8.5 U	1.8 U	1.7 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.7 U	8.4 U	1.8 U	8.5 U	1.8 U	0.84 J Z	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	8.4 U	1.8 U	8.5 U	1.8 U	1.7 U	1.8 U
2-Chloronaphthalene	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
3,3`-Dichlorobenzidine	ug/kg	340 U	340 U	370 U	340 U	360 U	340 U	350 U
Benzidine	ug/kg	3400 U	3400 U	3700 U	3400 U	3600 U	3400 U	3500 U
2-Methylphenol	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
2-Chlorophenol	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
2,4,5-Trichlorophenol	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
3-Nitroaniline	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
Benzyl Alcohol	ug/kg	500 U	510 U	560 U	510 U	540 U	510 U	530 U
2,6-Dinitrotoluene	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	170 U	190 U	170 U	180 U	170 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-315-SA6-SS-0.0-0.5	SL-315-SA6-SB-3.0-4.0	SL-316-SA6-SS-0.0-0.5	SL-317-SA6-SS-0.0-0.5	SL-318-SA6-SS-0.0-0.5	SL-319-SA6-SS-0.0-0.5	SL-319-SA6-SB-4.0-5.0
Sample Date		07/21/2011	08/19/2011	07/21/2011	07/26/2011	07/21/2011	07/26/2011	10/05/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE206	DE228	DE206	DE209	DE206	DE209	DE262
Start Depth		0	3	0	0	0	0	4
End Depth		0.5	4	0.5	0.5	0.5	0.5	5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	336 U	35.2 U	--	18.5 J Z	--	33.3 U	360 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	8.5 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U
2,4-Dinitrotoluene	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
Nitrobenzene	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
1,4-Dichlorobenzene	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
1,2,4-Trichlorobenzene	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
1,3-Dichlorobenzene	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
Hexachlorobutadiene	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
1,2-Dichlorobenzene	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
4-Nitroaniline	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
4-Nitrophenol	ug/kg	510 U	530 U	500 U	510 U	510 U	500 U	540 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
2,4-Dimethylphenol	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
4-Methylphenol	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
4-Chloroaniline	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
3,5-Dimethylphenol	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
Phenol	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	1500	--	56 J Z	18 J Z	44 J Z	36 J Z	28 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	19 U	--	--	--	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	170 U	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	19 U	18 U	11 J Z	18 U	11 J Z	19 U
Hexachlorobenzene	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	2.2 J Z	1.8 U	1.0 J Z	1.2 J Z	23	4.5	1.8 U
2,4-Dichlorophenol	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
1,2-Diphenylhydrazine	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
Pyrene (8270C)	ug/kg	32 J Z	--	27 J Z	--	--	130 J Z	--
Pyrene (8270C SIM)	ug/kg	--	1.8 U	--	8.3	290	--	1.9 J FD
Dimethylphthalate (8270C)	ug/kg	170 U	--	--	--	--	--	0.269 UJ B, Q
Dimethylphthalate (8270C SIM)	ug/kg	--	19 U	18 U	18 U	18 U	18 U	19 U
Dibenzofuran	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	20 J Z	36 J Z	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	4.9 J Z	1.8 U	2.0	1.1 J Z	--	--	0.74 J FD, Z
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	30 J Z	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	8.5 U	1.8 U	1.6 J Z	1.1 J Z	15	--	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	20 J Z	--	20 J Z	--	--	65 J Z	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	--	1.8 U	--	7.1	110	--	1.1 J FD, Z
Fluoranthene (8270C)	ug/kg	32 J Z	--	27 J Z	--	--	100 J Z	--
Fluoranthene (8270C SIM)	ug/kg	--	1.8 U	--	13	290	--	2.6 J FD
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	40 J Z	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	7.2 J Z	1.8 U	4.7	2.3	52	--	0.92 J FD, Z
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	8.5 U	1.8 U	1.7 U	0.42 J Z	0.97 J Z	1.6 J Z	1.8 U
Chrysene (8270C)	ug/kg	27 J Z	--	21 J Z	--	--	70 J Z	--
Chrysene (8270C SIM)	ug/kg	--	1.8 U	--	7.2	130	--	1.4 J FD, Z
bis(2-Chloroisopropyl) ether	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	49 J Z	--
Benzo(a)pyrene (8270C SIM)	ug/kg	9.0	1.8 U	5.3	1.9	70	--	1.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-315-SA6-SS-0.0-0.5	SL-315-SA6-SB-3.0-4.0	SL-316-SA6-SS-0.0-0.5	SL-317-SA6-SS-0.0-0.5	SL-318-SA6-SS-0.0-0.5	SL-319-SA6-SS-0.0-0.5	SL-319-SA6-SB-4.0-5.0
Sample Date		07/21/2011	08/19/2011	07/21/2011	07/26/2011	07/21/2011	07/26/2011	10/05/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE206	DE228	DE206	DE209	DE206	DE209	DE262
Start Depth		0	3	0	0	0	0	4
End Depth		0.5	4	0.5	0.5	0.5	0.5	5
2,4-Dinitrophenol	ug/kg	1000 U	1100 UJ Q	1000 U	1000 U	1000 U	1000 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	510 U	530 UJ L	500 U	510 U	510 U	500 U	540 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	8.5 U	1.8 U	1.7 U	1.7 U	5.0	1.0 J Z	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	63 J Z	--
Benzo(a)anthracene (8270C SIM)	ug/kg	8.8	1.8 U	5.0	1.7	95	--	1.8 U
4-Chloro-3-Methylphenol	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
Aniline	ug/kg	510 U	530 U	500 U	510 U	510 U	500 U	540 U
Benzoic Acid	ug/kg	510 U	530 U	500 U	510 U	510 U	500 U	540 U
Hexachloroethane	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
4-Chlorophenyl Phenylether	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
Hexachlorocyclopentadiene	ug/kg	510 U	530 U	500 U	510 U	510 U	500 U	540 U
Isophorone	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	8.5 U	1.8 U	1.7 U	1.7 U	38	1.7 U	1.8 U
Diethylphthalate (8270C)	ug/kg	170 U	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	--	19 U	18 U	18 U	18 U	18 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	170 U	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	19 U	27	18 U	8.0 J Z	9.1 J Z	19 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	33 J Z	--
Phenanthrene (8270C SIM)	ug/kg	8.3 J Z	1.8 U	4.6	5.0	240	--	0.96 J FD, Z
Butylbenzylphthalate (8270C)	ug/kg	20 J Z	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	19 U	18 U	18 U	8.8 J Z	6.6 J Z	19 U
N-Nitrosodiphenylamine	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	8.5 U	1.8 U	1.7 U	1.7 U	20	1.7 U	1.8 U
Carbazole	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
Pentachlorophenol	ug/kg	510 U	530 U	500 U	510 U	510 U	500 U	540 U
2,4,6-Trichlorophenol	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
2-Nitroaniline	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
2-Nitrophenol	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	8.5 U	1.8 U	1.7 U	1.7 U	3.1	1.1 J Z	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	8.5 U	1.8 U	1.7 U	1.7 U	3.1	2.5	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	8.5 U	1.8 U	1.7 U	1.7 U	2.8	2.3	1.8 U
2-Chloronaphthalene	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
3,3`-Dichlorobenzidine	ug/kg	340 U	350 U	340 U	340 U	340 U	340 U	360 U
Benzidine	ug/kg	3400 U	3500 R Q	3400 U	3400 U	3400 U	3400 U	3600 R Q
2-Methylphenol	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
2-Chlorophenol	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
2,4,5-Trichlorophenol	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
3-Nitroaniline	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
Benzyl Alcohol	ug/kg	510 U	530 U	500 U	510 U	510 U	500 U	540 U
2,6-Dinitrotoluene	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U
2-butoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--	--	--	--	--
Tetralin	ug/kg	170 U	180 U	170 U	170 U	170 U	170 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-321-SA6-SS-0.0-0.5	SL-321-SA6-SB-2.0-3.0	SL-322-SA6-SS-0.0-0.5
Sample Date		07/20/2011	08/16/2011	07/20/2011
Sample Type		N	N	N
SDG		DE204	DE225	DE204
Start Depth		0	2	0
End Depth		0.5	3	0.5
Chemical Name	Unit			
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U
2,4-Dinitrotoluene	ug/kg	170 U	170 U	170 U
Nitrobenzene	ug/kg	170 U	170 U	170 U
1,4-Dichlorobenzene	ug/kg	170 U	170 U	170 U
1,2,4-Trichlorobenzene	ug/kg	170 U	170 U	170 U
1,3-Dichlorobenzene	ug/kg	170 U	170 U	170 U
Hexachlorobutadiene	ug/kg	170 U	170 U	170 U
1,2-Dichlorobenzene	ug/kg	170 U	170 U	170 U
4-Nitroaniline	ug/kg	170 U	170 U	170 U
4-Nitrophenol	ug/kg	510 U	520 U	500 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	170 U	170 U
2,4-Dimethylphenol	ug/kg	170 U	170 U	170 U
4-Methylphenol	ug/kg	170 U	170 U	170 U
4-Chloroaniline	ug/kg	170 U	170 U	170 U
3,5-Dimethylphenol	ug/kg	170 U	170 U	170 U
Phenol	ug/kg	170 U	170 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	170 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	170 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	79 J Z	--	21 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	18 U	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	18 U	18 U	18 U
Hexachlorobenzene	ug/kg	170 U	170 U	170 U
Anthracene (8270C)	ug/kg	--	--	--
Anthracene (8270C SIM)	ug/kg	1.7 U	1.7 U	2.2
2,4-Dichlorophenol	ug/kg	170 U	170 U	170 U
1,2-Diphenylhydrazine	ug/kg	170 U	170 U	170 U
Pyrene (8270C)	ug/kg	--	--	43 J Z
Pyrene (8270C SIM)	ug/kg	1.7 U	1.7 U	--
Dimethylphthalate (8270C)	ug/kg	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	18 U	18 U	18 U
Dibenzofuran	ug/kg	170 U	170 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.7 U	1.7 U	4.3
Fluoranthene (8270C)	ug/kg	--	--	40 J Z
Fluoranthene (8270C SIM)	ug/kg	0.73 J Z	1.7 U	--
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.4 J Z
Acenaphthylene (8270C)	ug/kg	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.7 U	1.7 U	0.76 J Z
Chrysene (8270C)	ug/kg	--	--	--
Chrysene (8270C SIM)	ug/kg	0.93 J Z	1.7 U	4.3
bis(2-Chloroisopropyl) ether	ug/kg	170 U	170 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	23 J Z	21 J Z	--
Benzo(a)pyrene (8270C SIM)	ug/kg	--	--	0.92 J Z

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-321-SA6-SS-0.0-0.5	SL-321-SA6-SB-2.0-3.0	SL-322-SA6-SS-0.0-0.5
Sample Date		07/20/2011	08/16/2011	07/20/2011
Sample Type		N	N	N
SDG		DE204	DE225	DE204
Start Depth		0	2	0
End Depth		0.5	3	0.5
2,4-Dinitrophenol	ug/kg	1000 U	1000 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	510 U	520 U	500 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8
4-Chloro-3-Methylphenol	ug/kg	170 U	170 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	170 U	170 U
Aniline	ug/kg	510 U	520 U	500 U
Benzoic Acid	ug/kg	510 U	520 U	500 U
Hexachloroethane	ug/kg	170 U	170 U	170 U
4-Chlorophenyl Phenylether	ug/kg	170 U	170 U	170 U
Hexachlorocyclopentadiene	ug/kg	510 U	520 U	500 U
Isophorone	ug/kg	170 U	170 U	170 U
Acenaphthene (8270C)	ug/kg	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U
Diethylphthalate (8270C)	ug/kg	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	18 U	18 U	18 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	18 U	18 U	18 U
Phenanthrene (8270C)	ug/kg	--	--	24 J Z
Phenanthrene (8270C SIM)	ug/kg	1.7 U	1.7 U	--
Butylbenzylphthalate (8270C)	ug/kg	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	18 U	18 U	18 U
N-Nitrosodiphenylamine	ug/kg	170 U	170 U	170 U
Fluorene (8270C)	ug/kg	--	--	--
Fluorene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U
Carbazole	ug/kg	170 U	170 U	170 U
Pentachlorophenol	ug/kg	510 U	520 U	500 U
2,4,6-Trichlorophenol	ug/kg	170 U	170 U	170 U
2-Nitroaniline	ug/kg	170 U	170 U	170 U
2-Nitrophenol	ug/kg	170 U	170 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U
Naphthalene (8270C)	ug/kg	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U
2-Chloronaphthalene	ug/kg	170 U	170 U	170 U
3,3`-Dichlorobenzidine	ug/kg	340 U	340 U	340 U
Benzidine	ug/kg	3400 U	3400 U	3400 U
2-Methylphenol	ug/kg	170 U	170 U	170 U
2-Chlorophenol	ug/kg	170 U	170 U	170 U
2,4,5-Trichlorophenol	ug/kg	170 U	170 U	170 U
3-Nitroaniline	ug/kg	170 U	170 U	170 U
Benzyl Alcohol	ug/kg	510 U	520 U	500 U
2,6-Dinitrotoluene	ug/kg	170 U	170 U	170 U
2-butoxy-Ethanol	ug/kg	--	--	--
2-phenoxy-Ethanol	ug/kg	--	--	--
Tetralin	ug/kg	170 U	170 U	170 U

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R - Result is rejected

Sample Name		SL-017-SA6-SS-0.0-0.5	SL-030-SA6-SS-0.0-0.5	SL-030-SA6-SB-4.0-5.0	SL-030-SA6-SB-9.0-10.0	SL-031-SA6-SB-4.0-5.0	SL-031-SA6-SB-9.0-10.0	SL-033-SA6-SB-2.5-3.5
Sample Date		07/27/2011	07/13/2011	08/23/2011	08/23/2011	08/08/2011	08/08/2011	08/11/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE210	DE199	DE230	DE230	DE219	DE219	DE222
Start Depth		0	0	4	9	4	9	2.5
End Depth		0.5	0.5	5	10	5	10	3.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	--	--	1 U	1.2 U	1.1 U	1.0 U	1.1 U
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	250 U	2.5 U	6.6 U	1.4 U	1.3 U	1.3 U	1.2 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	250 U	11	6.6 U	1.1 J Z	1.3 U	1.3 U	1.2 U
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	700	40	28	8.5	2.6	0.50 J Z	2.2
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	3700	100	99	31	5.0	0.87 J Z	5.7
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	250 U	1.0 J Z	6.6 U	1.4 U	1.3 U	1.3 U	1.2 U
1,4-Dichlorobenzene	ug/kg	--	--	3.8 U	0.33 J Z	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	3.8 U	4.6 U	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	3.8 U	4.6 U	--	--	--
Hexachlorobutadiene	ug/kg	--	--	3.8 U	4.6 U	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	3.8 U	4.6 U	--	--	--
Isopropyltoluene	ug/kg	--	--	3.8 U	4.6 U	--	--	--
Ethylbenzene	ug/kg	--	--	3.8 U	4.6 U	--	--	--
Styrene	ug/kg	--	--	3.8 U	4.6 U	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	3.8 U	4.6 U	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	3.8 U	4.6 U	--	--	--
N-Propylbenzene	ug/kg	--	--	3.8 U	4.6 U	--	--	--
N-Butylbenzene	ug/kg	--	--	3.8 U	4.6 U	--	--	--
4-Chlorotoluene	ug/kg	--	--	3.8 U	4.6 U	--	--	--
1,2-Dibromoethane	ug/kg	--	--	3.8 U	4.6 U	--	--	--
1,2-Dichloroethane	ug/kg	--	--	3.8 U	4.6 U	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	7.5 U	9.1 U	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	3.8 U	4.6 U	--	--	--
Bromobenzene	ug/kg	--	--	3.8 U	4.6 U	--	--	--
Toluene	ug/kg	--	--	0.15 J Z	0.21 J Z	--	--	--
Chlorobenzene	ug/kg	--	--	3.8 U	4.6 U	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	3.8 U	4.6 U	--	--	--
1,4-Dioxane	ug/kg	--	--	14 U	16 U	--	--	--
Dibromochloromethane	ug/kg	--	--	3.8 U	4.6 U	--	--	--
Tetrachloroethene	ug/kg	--	--	3.8 U	4.6 U	--	--	--
sec-Butylbenzene	ug/kg	--	--	3.8 U	4.6 U	--	--	--
1,3-Dichloropropane	ug/kg	--	--	3.8 U	4.6 U	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	3.8 U	4.6 U	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	3.8 U	4.6 U	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	3.8 U	4.6 U	--	--	--
m,p-Xylene	ug/kg	--	--	3.8 U	4.6 U	--	--	--
Carbon tetrachloride	ug/kg	--	--	3.8 U	4.6 U	--	--	--
1,1-Dichloropropene	ug/kg	--	--	3.8 U	4.6 U	--	--	--
2-Hexanone	ug/kg	--	--	7.5 U	9.1 U	--	--	--
2,2-Dichloropropane	ug/kg	--	--	3.8 U	4.6 U	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	3.8 U	4.6 U	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

		Sample Name	SL-017-SA6-SS-0.0-0.5	SL-030-SA6-SS-0.0-0.5	SL-030-SA6-SB-4.0-5.0	SL-030-SA6-SB-9.0-10.0	SL-031-SA6-SB-4.0-5.0	SL-031-SA6-SB-9.0-10.0	SL-033-SA6-SB-2.5-3.5
		Sample Date	07/27/2011	07/13/2011	08/23/2011	08/23/2011	08/08/2011	08/08/2011	08/11/2011
		Sample Type	N	N	N	N	N	N	N
		SDG	DE210	DE199	DE230	DE230	DE219	DE219	DE222
		Start Depth	0	0	4	9	4	9	2.5
		End Depth	0.5	0.5	5	10	5	10	3.5
Acetone	ug/kg		--	--	7.5 U	55 U F	--	--	--
Chloroform	ug/kg		--	--	3.8 U	4.6 U	--	--	--
Benzene	ug/kg		--	--	3.8 U	4.6 U	--	--	--
1,1,1-Trichloroethane	ug/kg		--	--	3.8 U	4.6 U	--	--	--
Bromomethane	ug/kg		--	--	3.8 U	4.6 U	--	--	--
Chloromethane	ug/kg		--	--	3.8 U	4.6 U	--	--	--
Dibromomethane	ug/kg		--	--	3.8 U	4.6 U	--	--	--
Bromochloromethane	ug/kg		--	--	3.8 U	4.6 U	--	--	--
Chloroethane	ug/kg		--	--	3.8 U	4.6 U	--	--	--
Vinyl Chloride	ug/kg		--	--	3.8 U	4.6 U	--	--	--
Methylene chloride	ug/kg		--	--	3.8 U B, F	4.6 U B, F	--	--	--
Bromoform	ug/kg		--	--	3.8 U	4.6 U	--	--	--
Bromodichloromethane	ug/kg		--	--	3.8 U	4.6 U	--	--	--
1,1-Dichloroethane	ug/kg		--	--	3.8 U	4.6 U	--	--	--
1,1-Dichloroethene	ug/kg		--	--	3.8 U	4.6 U	--	--	--
Trichlorofluoromethane	ug/kg		--	--	3.8 U	4.6 U	--	--	--
Dichlorodifluoromethane	ug/kg		--	--	3.8 U	4.6 U	--	--	--
Freon 113a	ug/kg		--	--	4.7 U	5.7 U	--	--	--
Freon 113	ug/kg		--	--	3.8 U	4.6 U	--	--	--
1,2-Dichloropropane	ug/kg		--	--	3.8 U	4.6 U	--	--	--
2-Butanone	ug/kg		--	--	7.5 U	13	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	3.8 U	4.6 U	--	--	--
Trichloroethene	ug/kg		--	--	3.8 U	4.6 U	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	3.8 U	4.6 U	--	--	--
Chlorotrifluoroethene	ug/kg		--	--	4.7 U	5.7 U	--	--	--
1,2,3-Trichlorobenzene	ug/kg		--	--	3.8 U	4.6 U	--	--	--
o-Xylene	ug/kg		--	--	3.8 U	4.6 U	--	--	--
2-Chlorotoluene	ug/kg		--	--	3.8 U	4.6 U	--	--	--
1,2,4-Trimethylbenzene	ug/kg		--	--	3.8 U	4.6 U	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg		--	--	3.8 U	4.6 U	--	--	--
1,2,3-Trichloropropane	ug/kg		--	--	3.8 U	4.6 U	--	--	--
tert-Butylbenzene	ug/kg		--	--	3.8 U	4.6 U	--	--	--
Isopropylbenzene	ug/kg		--	--	3.8 U	4.6 U	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

	Sample Name	SL-035-SA6-SS-0.0-0.5	SL-035-SA6-SB-2.5-3.5	SL-037-SA6-SS-0.0-0.5	SL-037-SA6-SB-4.0-5.0	SL-037-SA6-SB-9.0-10.0	SL-038-SA6-SB-0.5-1.5	SL-040-SA6-SS-0.0-0.5
	Sample Date	07/13/2011	08/23/2011	07/14/2011	10/04/2011	10/04/2011	08/12/2011	07/13/2011
	Sample Type	N	N	N	N	N	N	N
	SDG	DE199	DE230	DE200	DE261	DE261	DE223	DE199
	Start Depth	0	2.5	0	4	9	0.5	0
	End Depth	0.5	3.5	0.5	5	10	1.5	0.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	--	1.1 U	--	1.0 U	1.1 U	1.1 U	--
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	6.1 U	1.2 U	0.99 J Z	1.2 U	1.4 U	1.3 U	6.2 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	4.1 J Z	1.2 U	4.7	1.6	0.55 J Z	1.3 U	4.2 J Z
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	59	2.3	18	7.3	2.7	5.2	78
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	170	9.2	40	9.6	4.6	11	200
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	6.1 U	1.2 U	0.90 J Z	1.2 U	1.4 U	1.3 U	6.2 U
1,4-Dichlorobenzene	ug/kg	--	4.2 U	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	4.2 U	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	4.2 U	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	4.2 U	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	4.2 U	--	--	--	--	--
Isopropyltoluene	ug/kg	--	4.2 U	--	--	--	--	--
Ethylbenzene	ug/kg	--	4.2 U	--	--	--	--	--
Styrene	ug/kg	--	4.2 U	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	4.2 U	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	4.2 U	--	--	--	--	--
N-Propylbenzene	ug/kg	--	4.2 U	--	--	--	--	--
N-Butylbenzene	ug/kg	--	4.2 U	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	4.2 U	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	4.2 U	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	4.2 U	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	8.5 U	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	4.2 U	--	--	--	--	--
Bromobenzene	ug/kg	--	4.2 U	--	--	--	--	--
Toluene	ug/kg	--	0.15 J Z	--	--	--	--	--
Chlorobenzene	ug/kg	--	4.2 U	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	4.2 U	--	--	--	--	--
1,4-Dioxane	ug/kg	--	17 U	--	--	--	--	--
Dibromochloromethane	ug/kg	--	4.2 U	--	--	--	--	--
Tetrachloroethene	ug/kg	--	4.2 U	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	4.2 U	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	4.2 U	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	4.2 U	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	4.2 U	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	4.2 U	--	--	--	--	--
m,p-Xylene	ug/kg	--	4.2 U	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	4.2 U	--	--	--	--	--
1,1-Dichloropropene	ug/kg	--	4.2 U	--	--	--	--	--
2-Hexanone	ug/kg	--	8.5 U	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	4.2 U	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	4.2 U	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

		Sample Name	SL-035-SA6-SS-0.0-0.5	SL-035-SA6-SB-2.5-3.5	SL-037-SA6-SS-0.0-0.5	SL-037-SA6-SB-4.0-5.0	SL-037-SA6-SB-9.0-10.0	SL-038-SA6-SB-0.5-1.5	SL-040-SA6-SS-0.0-0.5
		Sample Date	07/13/2011	08/23/2011	07/14/2011	10/04/2011	10/04/2011	08/12/2011	07/13/2011
		Sample Type	N	N	N	N	N	N	N
		SDG	DE199	DE230	DE200	DE261	DE261	DE223	DE199
		Start Depth	0	2.5	0	4	9	0.5	0
		End Depth	0.5	3.5	0.5	5	10	1.5	0.5
Acetone	ug/kg		--	8.5 U	--	--	--	--	--
Chloroform	ug/kg		--	4.2 U	--	--	--	--	--
Benzene	ug/kg		--	4.2 U	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg		--	4.2 U	--	--	--	--	--
Bromomethane	ug/kg		--	4.2 U	--	--	--	--	--
Chloromethane	ug/kg		--	4.2 U	--	--	--	--	--
Dibromomethane	ug/kg		--	4.2 U	--	--	--	--	--
Bromochloromethane	ug/kg		--	4.2 U	--	--	--	--	--
Chloroethane	ug/kg		--	4.2 U	--	--	--	--	--
Vinyl Chloride	ug/kg		--	4.2 U	--	--	--	--	--
Methylene chloride	ug/kg		--	4.2 U B, F	--	--	--	--	--
Bromoform	ug/kg		--	4.2 U	--	--	--	--	--
Bromodichloromethane	ug/kg		--	4.2 U	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	4.2 U	--	--	--	--	--
1,1-Dichloroethene	ug/kg		--	4.2 U	--	--	--	--	--
Trichlorofluoromethane	ug/kg		--	4.2 U	--	--	--	--	--
Dichlorodifluoromethane	ug/kg		--	4.2 U	--	--	--	--	--
Freon 113a	ug/kg		--	5.3 U	--	--	--	--	--
Freon 113	ug/kg		--	4.2 U	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	4.2 U	--	--	--	--	--
2-Butanone	ug/kg		--	8.5 U	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	4.2 U	--	--	--	--	--
Trichloroethene	ug/kg		--	4.2 U	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	4.2 U	--	--	--	--	--
Chlorotrifluoroethene	ug/kg		--	5.3 U	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg		--	4.2 U	--	--	--	--	--
o-Xylene	ug/kg		--	4.2 U	--	--	--	--	--
2-Chlorotoluene	ug/kg		--	4.2 U	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg		--	4.2 U	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg		--	4.2 U	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg		--	4.2 U	--	--	--	--	--
tert-Butylbenzene	ug/kg		--	4.2 U	--	--	--	--	--
Isopropylbenzene	ug/kg		--	4.2 U	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-040-SA6-SB-4.0-5.0	SL-041-SA6-SB-3.0-4.0	SL-042-SA6-SB-2.5-3.5	SL-043-SA6-SS-0.0-0.5	SL-044-SA6-SS-0.0-0.5	SL-044-SA6-SB-2.5-3.5	SL-046-SA6-SS-0.0-0.5
Sample Date		08/23/2011	08/25/2011	08/09/2011	07/14/2011	07/14/2011	08/09/2011	07/13/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE230	DE232	DE220	DE201	DE201	DE220	DE199
Start Depth		4	3	2.5	0	0	2.5	0
End Depth		5	4	3.5	0.5	0.5	3.5	0.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	1.0 U	1.3 U	0.9 U	--	--	1.3 U	--
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	1.3 U	1.2 U	1.3 U	1.3 U	12 U	1.4 U	1.2 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	1.3 U	1.3	1.3 U	1.7	12 U	1.4 U	1.1 J Z
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	5.5	8.4	1.3 U	16	56	1.4 U	11
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	19	18	0.93 J Z	27	240	1.9	23
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	1.3 U	1.2 U	1.3 U	1.3 U	12 U	1.4 U	0.44 J Z
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	124.0 U F, Z	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

		Sample Name	SL-040-SA6-SB-4.0-5.0	SL-041-SA6-SB-3.0-4.0	SL-042-SA6-SB-2.5-3.5	SL-043-SA6-SS-0.0-0.5	SL-044-SA6-SS-0.0-0.5	SL-044-SA6-SB-2.5-3.5	SL-046-SA6-SS-0.0-0.5
		Sample Date	08/23/2011	08/25/2011	08/09/2011	07/14/2011	07/14/2011	08/09/2011	07/13/2011
		Sample Type	N	N	N	N	N	N	N
		SDG	DE230	DE232	DE220	DE201	DE201	DE220	DE199
		Start Depth	4	3	2.5	0	0	2.5	0
		End Depth	5	4	3.5	0.5	0.5	3.5	0.5
Acetone	ug/kg		--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--
Benzene	ug/kg		--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg		--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--
Dibromomethane	ug/kg		--	--	--	--	--	--	--
Bromochloromethane	ug/kg		--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--
Methylene chloride	ug/kg		--	--	--	--	--	--	--
Bromoform	ug/kg		--	--	--	--	--	--	--
Bromodichloromethane	ug/kg		--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg		--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg		--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg		--	--	--	--	--	--	--
Freon 113a	ug/kg		--	--	--	--	--	--	--
Freon 113	ug/kg		--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--
2-Butanone	ug/kg		--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--
Trichloroethene	ug/kg		--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg		--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--
o-Xylene	ug/kg		--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg		--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg		--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg		--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg		--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg		--	--	--	--	--	--	--
Isopropylbenzene	ug/kg		--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-047-SA6-SS-0.0-0.5	SL-048-SA6-SS-0.0-0.5	SL-049-SA6-SS-0.0-0.5	SL-049-SA6-SB-2.5-3.5	SL-050-SA6-SS-0.0-0.5	SL-050-SA6-SB-1.0-2.0	SL-051-SA6-SS-0.0-0.5
Sample Date		07/13/2011	07/14/2011	07/14/2011	08/09/2011	07/14/2011	09/12/2011	07/14/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE199	DE200	DE200	DE220	DE200	DE241	DE200
Start Depth		0	0	0	2.5	0	1	0
End Depth		0.5	0.5	0.5	3.5	0.5	2	0.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	--	--	--	0.9 U	--	11 U	--
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	1.2 U	1.2 U	1.2 U	1.3 U	0.46 J Z	1.2 U	6.1 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	1.1 J Z	0.52 J Z	1.3	1.3 U	4.0	2.9	8.4
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	10	5.1	4.6	0.45 J Z	19	21	54
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	20	14	19	1.6	38	37	150
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	1.2 U	1.2 U	1.2 U	1.3 U	0.64 J Z	0.64 J Z	4.1 J Z
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-047-SA6-SS-0.0-0.5	SL-048-SA6-SS-0.0-0.5	SL-049-SA6-SS-0.0-0.5	SL-049-SA6-SB-2.5-3.5	SL-050-SA6-SS-0.0-0.5	SL-050-SA6-SB-1.0-2.0	SL-051-SA6-SS-0.0-0.5
Sample Date		07/13/2011	07/14/2011	07/14/2011	08/09/2011	07/14/2011	09/12/2011	07/14/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE199	DE200	DE200	DE220	DE200	DE241	DE200
Start Depth		0	0	0	2.5	0	1	0
End Depth		0.5	0.5	0.5	3.5	0.5	2	0.5
Acetone	ug/kg	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--
Benzene	ug/kg	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Bromomethane	ug/kg	--	--	--	--	--	--	--
Chloromethane	ug/kg	--	--	--	--	--	--	--
Dibromomethane	ug/kg	--	--	--	--	--	--	--
Bromochloromethane	ug/kg	--	--	--	--	--	--	--
Chloroethane	ug/kg	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg	--	--	--	--	--	--	--
Methylene chloride	ug/kg	--	--	--	--	--	--	--
Bromoform	ug/kg	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg	--	--	--	--	--	--	--
Freon 113a	ug/kg	--	--	--	--	--	--	--
Freon 113	ug/kg	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
2-Butanone	ug/kg	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
o-Xylene	ug/kg	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg	--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg	--	--	--	--	--	--	--
Isopropylbenzene	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-051-SA6-SB-3.5-4.5	SL-052-SA6-SS-0.0-0.5	SL-053-SA6-SS-0.0-0.5	SL-054-SA6-SS-0.0-0.5	SL-055-SA6-SS-0.0-0.5	SL-055-SA6-SB-2.0-3.0	SL-056-SA6-SS-0.0-0.5
Sample Date		09/12/2011	07/14/2011	07/14/2011	07/14/2011	07/14/2011	09/12/2011	07/13/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE241	DE200	DE200	DE200	DE200	DE241	DE201
Start Depth		3.5	0	0	0	0	2	0
End Depth		4.5	0.5	0.5	0.5	0.5	3	0.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	12 U	--	--	--	--	1.1 U	--
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	--	1.2 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	1.2 U	1.4	3.7	2.1	2.8	--	3.6
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	1.7	13	13	13	13	--	9.1
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	3.7	35	39	44	27	--	21
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	1.2 U	1.2 U	1.7	0.53 J Z	0.41 J Z	--	0.48 J Z
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	110.0 U F, Z	--	--	--	--	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-051-SA6-SB-3.5-4.5	SL-052-SA6-SS-0.0-0.5	SL-053-SA6-SS-0.0-0.5	SL-054-SA6-SS-0.0-0.5	SL-055-SA6-SS-0.0-0.5	SL-055-SA6-SB-2.0-3.0	SL-056-SA6-SS-0.0-0.5
Sample Date		09/12/2011	07/14/2011	07/14/2011	07/14/2011	07/14/2011	09/12/2011	07/13/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE241	DE200	DE200	DE200	DE200	DE241	DE201
Start Depth		3.5	0	0	0	0	2	0
End Depth		4.5	0.5	0.5	0.5	0.5	3	0.5
Acetone	ug/kg	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--
Benzene	ug/kg	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Bromomethane	ug/kg	--	--	--	--	--	--	--
Chloromethane	ug/kg	--	--	--	--	--	--	--
Dibromomethane	ug/kg	--	--	--	--	--	--	--
Bromochloromethane	ug/kg	--	--	--	--	--	--	--
Chloroethane	ug/kg	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg	--	--	--	--	--	--	--
Methylene chloride	ug/kg	--	--	--	--	--	--	--
Bromoform	ug/kg	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg	--	--	--	--	--	--	--
Freon 113a	ug/kg	--	--	--	--	--	--	--
Freon 113	ug/kg	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
2-Butanone	ug/kg	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
o-Xylene	ug/kg	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg	--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg	--	--	--	--	--	--	--
Isopropylbenzene	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-058-SA6-SS-0.0-0.5	SL-059-SA6-SS-0.0-0.5	SL-060-SA6-SS-0.0-0.5	SL-063-SA6-SS-0.0-0.5	SL-064-SA6-SS-0.0-0.5	SL-064-SA6-SB-4.0-5.0	SL-064-SA6-SB-9.0-10.0
Sample Date		07/13/2011	07/13/2011	07/14/2011	07/14/2011	07/14/2011	10/03/2011	10/03/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE201	DE199	DE200	DE200	DE200	DE260	DE260
Start Depth		0	0	0	0	0	4	9
End Depth		0.5	0.5	0.5	0.5	0.5	5	10
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	--	--	--	--	--	1.2 U	1.3 U
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	1.2 U	1.2 U	12 U	6.2 U	0.46 J Z	1.2 U	6.8 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	1.7	0.68 J Z	12 U	4.9 J Z	3.7	1.6	8.9
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	8.0	6.1	71	48	25	6.6	62
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	19	15	260	170	34	13	49
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	1.2 U	1.2 U	12 U	6.2 U	0.78 J Z	1.2 U	6.8 U
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

	Sample Name	SL-058-SA6-SS-0.0-0.5	SL-059-SA6-SS-0.0-0.5	SL-060-SA6-SS-0.0-0.5	SL-063-SA6-SS-0.0-0.5	SL-064-SA6-SS-0.0-0.5	SL-064-SA6-SB-4.0-5.0	SL-064-SA6-SB-9.0-10.0
	Sample Date	07/13/2011	07/13/2011	07/14/2011	07/14/2011	07/14/2011	10/03/2011	10/03/2011
	Sample Type	N	N	N	N	N	N	N
	SDG	DE201	DE199	DE200	DE200	DE200	DE260	DE260
	Start Depth	0	0	0	0	0	4	9
	End Depth	0.5	0.5	0.5	0.5	0.5	5	10
Acetone	ug/kg	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--
Benzene	ug/kg	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Bromomethane	ug/kg	--	--	--	--	--	--	--
Chloromethane	ug/kg	--	--	--	--	--	--	--
Dibromomethane	ug/kg	--	--	--	--	--	--	--
Bromochloromethane	ug/kg	--	--	--	--	--	--	--
Chloroethane	ug/kg	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg	--	--	--	--	--	--	--
Methylene chloride	ug/kg	--	--	--	--	--	--	--
Bromoform	ug/kg	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg	--	--	--	--	--	--	--
Freon 113a	ug/kg	--	--	--	--	--	--	--
Freon 113	ug/kg	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
2-Butanone	ug/kg	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
o-Xylene	ug/kg	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg	--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg	--	--	--	--	--	--	--
Isopropylbenzene	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-065-SA6-SB-1.5-2.5	SL-066-SA6-SS-0.0-0.5	SL-066-SA6-SB-2.0-3.0	SL-067-SA6-SS-0.0-0.5	SL-068-SA6-SB-4.0-5.0	SL-068-SA6-SB-19.0-20.0	SL-069-SA6-SB-4.0-5.0
Sample Date		08/12/2011	07/13/2011	08/24/2011	07/13/2011	07/28/2011	07/28/2011	07/27/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE223	DE199	DE231	DE199	DE211	DE211	DE210
Start Depth		1.5	0	2	0	4	19	4
End Depth		2.5	0.5	3	0.5	5	20	5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	1.1 U	--	1.0 U	--	1.1 U	1 U	1 U
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	1.3 U	1.2 U	1.2 U	1.2 U	6.5 U	2.7 U	2.6 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	0.61 J Z	0.95 J Z	0.51 J Z	1.9	6.5 U	2.7 U	2.6 U
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	10	7.3	2.4	22	13	3.1	8.6
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	26	20	6.4	42	44	15	25
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	1.3 U	1.2 U	1.2 U	1.5	6.5 U	2.7 U	2.6 U
1,4-Dichlorobenzene	ug/kg	4.0 U	--	4.0 U	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	4.0 U	--	4.0 U	--	--	--	--
1,3-Dichlorobenzene	ug/kg	4.0 U	--	4.0 U	--	--	--	--
Hexachlorobutadiene	ug/kg	4.0 U	--	4.0 U	--	--	--	--
1,2-Dichlorobenzene	ug/kg	4.0 U	--	4.0 U	--	--	--	--
Isopropyltoluene	ug/kg	4.0 U	--	4.0 U	--	--	--	--
Ethylbenzene	ug/kg	0.07 J Z	--	4.0 U	--	--	--	--
Styrene	ug/kg	4.0 U	--	4.0 U	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	4.0 U	--	4.0 U	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	4.0 U	--	4.0 U	--	--	--	--
N-Propylbenzene	ug/kg	4.0 U	--	4.0 U	--	--	--	--
N-Butylbenzene	ug/kg	4.0 U	--	4.0 U	--	--	--	--
4-Chlorotoluene	ug/kg	4.0 U	--	4.0 U	--	--	--	--
1,2-Dibromoethane	ug/kg	4.0 U	--	4.0 U	--	--	--	--
1,2-Dichloroethane	ug/kg	4.0 U	--	4.0 U	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	7.9 U	--	8.1 U	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	4.0 U	--	4.0 U	--	--	--	--
Bromobenzene	ug/kg	4.0 U	--	4.0 U	--	--	--	--
Toluene	ug/kg	0.38 J Z	--	0.17 J Z	--	--	--	--
Chlorobenzene	ug/kg	4.0 U	--	4.0 U	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	4.0 U	--	4.0 U	--	--	--	--
1,4-Dioxane	ug/kg	15 U	--	16 U	--	--	--	--
Dibromochloromethane	ug/kg	4.0 U	--	4.0 U	--	--	--	--
Tetrachloroethene	ug/kg	4.0 U	--	4.0 U	--	--	--	--
sec-Butylbenzene	ug/kg	4.0 U	--	4.0 U	--	--	--	--
1,3-Dichloropropane	ug/kg	4.0 U	--	4.0 U	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	4.0 U	--	4.0 U	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	4.0 U	--	4.0 U	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	4.0 U	--	4.0 U	--	--	--	--
m,p-Xylene	ug/kg	0.21 J Z	--	4.0 U	--	--	--	--
Carbon tetrachloride	ug/kg	4.0 U	--	4.0 U	--	--	--	--
1,1-Dichloropropene	ug/kg	4.0 U	--	4.0 U	--	--	--	--
2-Hexanone	ug/kg	7.9 U	--	8.1 U	--	--	--	--
2,2-Dichloropropane	ug/kg	4.0 U	--	4.0 U	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	4.0 U	--	4.0 U	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

		Sample Name	SL-065-SA6-SB-1.5-2.5	SL-066-SA6-SS-0.0-0.5	SL-066-SA6-SB-2.0-3.0	SL-067-SA6-SS-0.0-0.5	SL-068-SA6-SB-4.0-5.0	SL-068-SA6-SB-19.0-20.0	SL-069-SA6-SB-4.0-5.0
		Sample Date	08/12/2011	07/13/2011	08/24/2011	07/13/2011	07/28/2011	07/28/2011	07/27/2011
		Sample Type	N	N	N	N	N	N	N
		SDG	DE223	DE199	DE231	DE199	DE211	DE211	DE210
		Start Depth	1.5	0	2	0	4	19	4
		End Depth	2.5	0.5	3	0.5	5	20	5
Acetone	ug/kg		7.9 U	--	8.1 U	--	--	--	--
Chloroform	ug/kg		4.0 U	--	4.0 U	--	--	--	--
Benzene	ug/kg		4.0 U	--	4.0 U	--	--	--	--
1,1,1-Trichloroethane	ug/kg		4.0 U	--	4.0 U	--	--	--	--
Bromomethane	ug/kg		4.0 U	--	4.0 U	--	--	--	--
Chloromethane	ug/kg		4.0 U	--	4.0 U	--	--	--	--
Dibromomethane	ug/kg		4.0 U	--	4.0 U	--	--	--	--
Bromochloromethane	ug/kg		4.0 U	--	4.0 U	--	--	--	--
Chloroethane	ug/kg		4.0 U	--	4.0 U	--	--	--	--
Vinyl Chloride	ug/kg		4.0 U	--	4.0 U	--	--	--	--
Methylene chloride	ug/kg		4.0 U B	--	4.0 U B, F	--	--	--	--
Bromoform	ug/kg		4.0 U	--	4.0 U	--	--	--	--
Bromodichloromethane	ug/kg		4.0 U	--	4.0 U	--	--	--	--
1,1-Dichloroethane	ug/kg		4.0 U	--	4.0 U	--	--	--	--
1,1-Dichloroethene	ug/kg		4.0 U	--	4.0 U	--	--	--	--
Trichlorofluoromethane	ug/kg		4.0 U	--	4.0 U	--	--	--	--
Dichlorodifluoromethane	ug/kg		4.0 U	--	4.0 U	--	--	--	--
Freon 113a	ug/kg		5.0 U	--	5.0 U	--	--	--	--
Freon 113	ug/kg		4.0 U	--	4.0 U	--	--	--	--
1,2-Dichloropropane	ug/kg		4.0 U	--	4.0 U	--	--	--	--
2-Butanone	ug/kg		7.9 U	--	8.1 U	--	--	--	--
1,1,2-Trichloroethane	ug/kg		4.0 U	--	4.0 U	--	--	--	--
Trichloroethene	ug/kg		4.0 U	--	4.0 U	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		4.0 U	--	4.0 U	--	--	--	--
Chlorotrifluoroethene	ug/kg		5.0 U	--	5.0 U	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg		4.0 U	--	4.0 U	--	--	--	--
o-Xylene	ug/kg		4.0 U	--	4.0 U	--	--	--	--
2-Chlorotoluene	ug/kg		4.0 U	--	4.0 U	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg		4.0 U	--	4.0 U	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg		4.0 U	--	4.0 U	--	--	--	--
1,2,3-Trichloropropane	ug/kg		4.0 U	--	4.0 U	--	--	--	--
tert-Butylbenzene	ug/kg		4.0 U	--	4.0 U	--	--	--	--
Isopropylbenzene	ug/kg		4.0 U	--	4.0 U	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-069-SA6-SB-9.0-10.0	SL-070-SA6-SB-4.0-5.0	SL-070-SA6-SB-19.0-20.0	SL-071-SA6-SB-4.0-5.0	SL-071-SA6-SB-6.0-7.0	SL-072-SA6-SB-4.0-5.0	SL-072-SA6-SB-9.0-10.0
Sample Date		07/27/2011	07/28/2011	07/28/2011	07/14/2011	07/14/2011	07/13/2011	07/13/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE210	DE211	DE211	DE200	DE200	DE199	DE199
Start Depth		9	4	19	4	6	4	9
End Depth		10	5	20	5	7	5	10
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	1 U	1 U	1.0 U	1.1 U	9.8 U	1.1 U	1.0 U
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	2.8 U	2.7 U	2.9 U	2.6 U	65 U	1.3 U	1.4 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	2.8 U	2.7 U	2.9 U	1.0 J Z	65 U	1.3 U	1.4 U
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	10	5.3	8.9	21	280	1.2 J Z	1.4 U
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	47	15	25	55	860	0.67 J Z	1.4 U
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	2.8 U	2.7 U	2.9 U	2.6 U	65 U	1.3 U	1.4 U
1,4-Dichlorobenzene	ug/kg	--	--	--	4.0 U	--	4.1 U	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	4.0 U	--	4.1 U	--
1,3-Dichlorobenzene	ug/kg	--	--	--	4.0 U	--	4.1 U	--
Hexachlorobutadiene	ug/kg	--	--	--	4.0 U	--	4.1 U	--
1,2-Dichlorobenzene	ug/kg	--	--	--	4.0 U	--	4.1 U	--
Isopropyltoluene	ug/kg	--	--	--	4.0 U	--	4.1 U	--
Ethylbenzene	ug/kg	--	--	--	4.0 U	--	4.1 U	--
Styrene	ug/kg	--	--	--	4.0 U	--	4.1 U	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	4.0 U	--	4.1 U	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	4.0 U	--	4.1 U	--
N-Propylbenzene	ug/kg	--	--	--	4.0 U	--	4.1 U	--
N-Butylbenzene	ug/kg	--	--	--	4.0 U	--	4.1 U	--
4-Chlorotoluene	ug/kg	--	--	--	4.0 U	--	4.1 U	--
1,2-Dibromoethane	ug/kg	--	--	--	4.0 U	--	4.1 U	--
1,2-Dichloroethane	ug/kg	--	--	--	4.0 U	--	4.1 U	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	8.0 U	--	8.2 U	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	4.0 U	--	4.1 U	--
Bromobenzene	ug/kg	--	--	--	4.0 U	--	4.1 U	--
Toluene	ug/kg	--	--	--	0.10 J Z	--	4.1 U	--
Chlorobenzene	ug/kg	--	--	--	4.0 U	--	4.1 U	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	4.0 U	--	4.1 U	--
1,4-Dioxane	ug/kg	--	--	--	14 U	--	15 U	--
Dibromochloromethane	ug/kg	--	--	--	4.0 U	--	4.1 U	--
Tetrachloroethene	ug/kg	--	--	--	4.0 U	--	4.1 U	--
sec-Butylbenzene	ug/kg	--	--	--	4.0 U	--	4.1 U	--
1,3-Dichloropropane	ug/kg	--	--	--	4.0 U	--	4.1 U	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	4.0 U	--	4.1 U	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	4.0 U	--	4.1 U	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	4.0 U	--	4.1 U	--
m,p-Xylene	ug/kg	--	--	--	4.0 U	--	4.1 U	--
Carbon tetrachloride	ug/kg	--	--	--	4.0 U	--	4.1 U	--
1,1-Dichloropropene	ug/kg	--	--	--	4.0 U	--	4.1 U	--
2-Hexanone	ug/kg	--	--	--	8.0 U	--	8.2 U	--
2,2-Dichloropropane	ug/kg	--	--	--	4.0 U	--	4.1 U	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	4.0 U	--	4.1 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

		Sample Name	SL-069-SA6-SB-9.0-10.0	SL-070-SA6-SB-4.0-5.0	SL-070-SA6-SB-19.0-20.0	SL-071-SA6-SB-4.0-5.0	SL-071-SA6-SB-6.0-7.0	SL-072-SA6-SB-4.0-5.0	SL-072-SA6-SB-9.0-10.0
		Sample Date	07/27/2011	07/28/2011	07/28/2011	07/14/2011	07/14/2011	07/13/2011	07/13/2011
		Sample Type	N	N	N	N	N	N	N
		SDG	DE210	DE211	DE211	DE200	DE200	DE199	DE199
		Start Depth	9	4	19	4	6	4	9
		End Depth	10	5	20	5	7	5	10
Acetone	ug/kg		--	--	--	22.0 U B	--	8.6 UJ B, C	--
Chloroform	ug/kg		--	--	--	0.12 J Z	--	4.1 U	--
Benzene	ug/kg		--	--	--	4.0 U	--	4.1 U	--
1,1,1-Trichloroethane	ug/kg		--	--	--	4.0 U	--	4.1 U	--
Bromomethane	ug/kg		--	--	--	4.0 U	--	4.1 U	--
Chloromethane	ug/kg		--	--	--	4.0 U	--	4.1 U	--
Dibromomethane	ug/kg		--	--	--	4.0 U	--	4.1 U	--
Bromochloromethane	ug/kg		--	--	--	4.0 U	--	4.1 U	--
Chloroethane	ug/kg		--	--	--	4.0 U	--	4.1 U	--
Vinyl Chloride	ug/kg		--	--	--	4.0 U	--	4.1 U	--
Methylene chloride	ug/kg		--	--	--	65	--	4.1 UJ B, F, L	--
Bromoform	ug/kg		--	--	--	4.0 U	--	4.1 U	--
Bromodichloromethane	ug/kg		--	--	--	4.0 U	--	4.1 U	--
1,1-Dichloroethane	ug/kg		--	--	--	4.0 U	--	4.1 U	--
1,1-Dichloroethene	ug/kg		--	--	--	4.0 U	--	4.1 U	--
Trichlorofluoromethane	ug/kg		--	--	--	4.0 U	--	4.1 U	--
Dichlorodifluoromethane	ug/kg		--	--	--	4.0 U	--	4.1 U	--
Freon 113a	ug/kg		--	--	--	5.0 U	--	5.1 U	--
Freon 113	ug/kg		--	--	--	4.0 U	--	4.1 U	--
1,2-Dichloropropane	ug/kg		--	--	--	4.0 U	--	4.1 U	--
2-Butanone	ug/kg		--	--	--	8.0 U	--	8.2 U	--
1,1,2-Trichloroethane	ug/kg		--	--	--	4.0 U	--	4.1 U	--
Trichloroethene	ug/kg		--	--	--	4.0 U	--	4.1 U	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	4.0 U	--	4.1 U	--
Chlorotrifluoroethene	ug/kg		--	--	--	5.0 U	--	5.1 U	--
1,2,3-Trichlorobenzene	ug/kg		--	--	--	4.0 U	--	4.1 U	--
o-Xylene	ug/kg		--	--	--	4.0 U	--	4.1 U	--
2-Chlorotoluene	ug/kg		--	--	--	4.0 U	--	4.1 U	--
1,2,4-Trimethylbenzene	ug/kg		--	--	--	4.0 U	--	4.1 U	--
1,2-Dibromo-3-chloropropane	ug/kg		--	--	--	4.0 U	--	4.1 UJ C	--
1,2,3-Trichloropropane	ug/kg		--	--	--	4.0 U	--	4.1 U	--
tert-Butylbenzene	ug/kg		--	--	--	4.0 U	--	4.1 U	--
Isopropylbenzene	ug/kg		--	--	--	4.0 U	--	4.1 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-073-SA6-SB-4.0-5.0	SL-074-SA6-SB-4.0-5.0	SL-074-SA6-SB-9.0-10.0	SL-075-SA6-SB-4.0-5.0	SL-075-SA6-SB-9.0-10.0	SL-076-SA6-SB-2.0-3.0	SL-077-SA6-SB-4.0-5.0
Sample Date		07/21/2011	07/14/2011	07/14/2011	07/22/2011	07/22/2011	07/27/2011	07/26/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE206	DE200	DE200	DE207	DE207	DE210	DE209
Start Depth		4	4	9	4	9	2	4
End Depth		5	5	10	5	10	3	5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	10 U	1.1 U	14 U	1 U	0.9 U	1 U	9.1 U
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	33 U	2.6 U	33 U	6.7 U	6.5 U	1.3 U	2.6 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	33 U	2.6 UJ FD	41	6.7 U	8.2	1.3 U	2.6 U
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	140	21 J FD	170	9.6	43	1.3 U	12
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	430	61 J FD	750	57	250	1.3 U	43
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	33 U	2.6 U	33 U	6.7 U	6.5 U	1.3 U	2.6 U
1,4-Dichlorobenzene	ug/kg	4.4 U	4.1 U	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	4.4 U	4.1 U	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	4.4 U	4.1 U	--	--	--	--	--
Hexachlorobutadiene	ug/kg	4.4 U	4.1 U	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	4.4 U	4.1 U	--	--	--	--	--
Isopropyltoluene	ug/kg	4.4 U	4.1 U	--	--	--	--	--
Ethylbenzene	ug/kg	4.4 U	4.1 U	--	--	--	--	--
Styrene	ug/kg	4.4 U	4.1 U	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	4.4 U	4.1 U	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	4.4 U	4.1 U	--	--	--	--	--
N-Propylbenzene	ug/kg	4.4 U	4.1 U	--	--	--	--	--
N-Butylbenzene	ug/kg	4.4 U	4.1 U	--	--	--	--	--
4-Chlorotoluene	ug/kg	4.4 U	4.1 U	--	--	--	--	--
1,2-Dibromoethane	ug/kg	4.4 U	4.1 U	--	--	--	--	--
1,2-Dichloroethane	ug/kg	4.4 U	4.1 U	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	8.9 U	8.2 U	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	4.4 U	4.1 U	--	--	--	--	--
Bromobenzene	ug/kg	4.4 U	4.1 U	--	--	--	--	--
Toluene	ug/kg	0.18 J Z	0.12 J Z	--	--	--	--	--
Chlorobenzene	ug/kg	4.4 U	4.1 U	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	4.4 U	4.1 U	--	--	--	--	--
1,4-Dioxane	ug/kg	16 U	17 U	--	--	--	--	--
Dibromochloromethane	ug/kg	4.4 U	4.1 U	--	--	--	--	--
Tetrachloroethene	ug/kg	4.4 U	4.1 U	--	--	--	--	--
sec-Butylbenzene	ug/kg	4.4 U	4.1 U	--	--	--	--	--
1,3-Dichloropropane	ug/kg	4.4 U	4.1 U	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	4.4 U	4.1 U	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	4.4 U	4.1 U	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	4.4 U	4.1 U	--	--	--	--	--
m,p-Xylene	ug/kg	4.4 U	4.1 U	--	--	--	--	--
Carbon tetrachloride	ug/kg	4.4 U	4.1 U	--	--	--	--	--
1,1-Dichloropropene	ug/kg	4.4 U	4.1 U	--	--	--	--	--
2-Hexanone	ug/kg	8.9 U	8.2 U	--	--	--	--	--
2,2-Dichloropropane	ug/kg	4.4 U	4.1 U	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	4.4 U	4.1 U	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

		Sample Name	SL-073-SA6-SB-4.0-5.0	SL-074-SA6-SB-4.0-5.0	SL-074-SA6-SB-9.0-10.0	SL-075-SA6-SB-4.0-5.0	SL-075-SA6-SB-9.0-10.0	SL-076-SA6-SB-2.0-3.0	SL-077-SA6-SB-4.0-5.0
		Sample Date	07/21/2011	07/14/2011	07/14/2011	07/22/2011	07/22/2011	07/27/2011	07/26/2011
		Sample Type	N	N	N	N	N	N	N
		SDG	DE206	DE200	DE200	DE207	DE207	DE210	DE209
		Start Depth	4	4	9	4	9	2	4
		End Depth	5	5	10	5	10	3	5
Acetone	ug/kg		10	28.0 U B	--	--	--	--	--
Chloroform	ug/kg		4.4 U	0.17 J FD, Z	--	--	--	--	--
Benzene	ug/kg		4.4 U	4.1 U	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg		4.4 U	4.1 U	--	--	--	--	--
Bromomethane	ug/kg		4.4 U	4.1 U	--	--	--	--	--
Chloromethane	ug/kg		4.4 U	4.1 U	--	--	--	--	--
Dibromomethane	ug/kg		4.4 U	4.1 U	--	--	--	--	--
Bromochloromethane	ug/kg		4.4 U	4.1 U	--	--	--	--	--
Chloroethane	ug/kg		4.4 U	4.1 U	--	--	--	--	--
Vinyl Chloride	ug/kg		4.4 U	4.1 U	--	--	--	--	--
Methylene chloride	ug/kg		13.0 U B	82 J FD, Q	--	--	--	--	--
Bromoform	ug/kg		4.4 U	4.1 U	--	--	--	--	--
Bromodichloromethane	ug/kg		4.4 U	4.1 U	--	--	--	--	--
1,1-Dichloroethane	ug/kg		4.4 U	4.1 U	--	--	--	--	--
1,1-Dichloroethene	ug/kg		4.4 U	4.1 U	--	--	--	--	--
Trichlorofluoromethane	ug/kg		4.4 U	4.1 U	--	--	--	--	--
Dichlorodifluoromethane	ug/kg		4.4 U	4.1 U	--	--	--	--	--
Freon 113a	ug/kg		5.5 U	5.1 U	--	--	--	--	--
Freon 113	ug/kg		4.4 U	4.1 U	--	--	--	--	--
1,2-Dichloropropane	ug/kg		4.4 U	4.1 U	--	--	--	--	--
2-Butanone	ug/kg		8.9 U	8.2 U	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		4.4 U	4.1 U	--	--	--	--	--
Trichloroethene	ug/kg		4.4 U	4.1 U	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		4.4 U	4.1 U	--	--	--	--	--
Chlorotrifluoroethene	ug/kg		5.5 U	5.1 U	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg		4.4 U	4.1 U	--	--	--	--	--
o-Xylene	ug/kg		4.4 U	4.1 U	--	--	--	--	--
2-Chlorotoluene	ug/kg		4.4 U	4.1 U	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg		4.4 U	4.1 U	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg		4.4 U	4.1 U	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg		4.4 U	4.1 U	--	--	--	--	--
tert-Butylbenzene	ug/kg		4.4 U	4.1 U	--	--	--	--	--
Isopropylbenzene	ug/kg		4.4 U	4.1 U	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-077-SA6-SB-9.0-10.0	SL-080-SA6-SB-3.5-4.5	SL-081-SA6-SB-4.0-5.0	SL-081-SA6-SB-9.0-10.0	SL-082-SA6-SB-4.0-5.0	SL-082-SA6-SB-9.0-10.0	SL-083-SA6-SB-4.0-5.0
Sample Date		07/26/2011	07/26/2011	07/21/2011	07/21/2011	07/22/2011	07/22/2011	07/13/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE209	DE209	DE206	DE206	DE207	DE207	DE199
Start Depth		9	3.5	4	9	4	9	4
End Depth		10	4.5	5	10	5	10	5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	1 U	0.9 U	1.1 U	1.0 U	1 U	1.1 U	14 U
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	2.8 U	1.3 UJ S	1.3 U	1.3 U	6.4 U	1.3 U	32 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	0.94 J Z	1.3 UJ S	1.3 U	1.3 U	6.4 U	1.3 U	61
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	15	1.3 UJ S	1.3 U	1.3 U	15	2.7	440
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	46	1.3 UJ S	0.97 J Z	0.66 J Z	110	5.8	1000
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	2.8 U	1.3 UJ S	1.3 U	1.3 U	6.4 U	1.3 U	32 U
1,4-Dichlorobenzene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
1,2,4-Trichlorobenzene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
1,3-Dichlorobenzene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
Hexachlorobutadiene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
1,2-Dichlorobenzene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
Isopropyltoluene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
Ethylbenzene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
Styrene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
cis-1,3-Dichloropropene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
trans-1,3-Dichloropropene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
N-Propylbenzene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
N-Butylbenzene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
4-Chlorotoluene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
1,2-Dibromoethane	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
1,2-Dichloroethane	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
4-Methyl-2-Pentanone	ug/kg	--	--	8.4 U	--	--	--	8.3 UJ S
1,3,5-Trimethylbenzene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
Bromobenzene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
Toluene	ug/kg	--	--	0.12 J Z	--	--	--	4.1 UJ B, S
Chlorobenzene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
2-Chloroethyl Vinyl Ether	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
1,4-Dioxane	ug/kg	--	--	16 U	--	--	--	17 U
Dibromochloromethane	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
Tetrachloroethene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
sec-Butylbenzene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
1,3-Dichloropropane	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
cis-1,2-Dichloroethene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
trans-1,2-Dichloroethene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
Methyl tert-Butyl Ether	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
m,p-Xylene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
Carbon tetrachloride	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
1,1-Dichloropropene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
2-Hexanone	ug/kg	--	--	8.4 U	--	--	--	8.3 UJ S
2,2-Dichloropropane	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
1,1,1,2-Tetrachloroethane	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-077-SA6-SB-9.0-10.0	SL-080-SA6-SB-3.5-4.5	SL-081-SA6-SB-4.0-5.0	SL-081-SA6-SB-9.0-10.0	SL-082-SA6-SB-4.0-5.0	SL-082-SA6-SB-9.0-10.0	SL-083-SA6-SB-4.0-5.0
Sample Date		07/26/2011	07/26/2011	07/21/2011	07/21/2011	07/22/2011	07/22/2011	07/13/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE209	DE209	DE206	DE206	DE207	DE207	DE199
Start Depth		9	3.5	4	9	4	9	4
End Depth		10	4.5	5	10	5	10	5
Acetone	ug/kg	--	--	8.0 J Z	--	--	--	24.0 UJ B, S, C
Chloroform	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
Benzene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
1,1,1-Trichloroethane	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
Bromomethane	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
Chloromethane	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
Dibromomethane	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
Bromochloromethane	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
Chloroethane	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
Vinyl Chloride	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
Methylene chloride	ug/kg	--	--	12.0 U B	--	--	--	4.1 UJ B, F, S, L
Bromoform	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
Bromodichloromethane	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
1,1-Dichloroethane	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
1,1-Dichloroethene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
Trichlorofluoromethane	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
Dichlorodifluoromethane	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
Freon 113a	ug/kg	--	--	5.2 U	--	--	--	5.2 UJ S
Freon 113	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
1,2-Dichloropropane	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
2-Butanone	ug/kg	--	--	8.4 U	--	--	--	8.3 UJ S
1,1,2-Trichloroethane	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
Trichloroethene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
1,1,2,2-Tetrachloroethane	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
Chlorotrifluoroethene	ug/kg	--	--	5.2 U	--	--	--	5.2 UJ S
1,2,3-Trichlorobenzene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
o-Xylene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
2-Chlorotoluene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
1,2,4-Trimethylbenzene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
1,2-Dibromo-3-chloropropane	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S, C
1,2,3-Trichloropropane	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
tert-Butylbenzene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S
Isopropylbenzene	ug/kg	--	--	4.2 U	--	--	--	4.1 UJ S

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-083-SA6-SB-9.0-10.0	SL-084-SA6-SB-4.0-5.0	SL-084-SA6-SB-9.0-10.0	SL-085-SA6-SB-4.0-5.0	SL-085-SA6-SB-7.0-8.0	SL-086-SA6-SB-4.0-5.0	SL-086-SA6-SB-9.0-10.0
Sample Date		07/13/2011	07/19/2011	07/19/2011	07/19/2011	07/19/2011	07/20/2011	07/20/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE199	DE203	DE203	DE203	DE203	DE204	DE204
Start Depth		9	4	9	4	7	4	9
End Depth		10	5	10	5	8	5	10
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	11 U	9.8 U	11 U	1 U	1.0 U	1 U	1 U
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	13 U	33 U	32 U	6.5 U	1.3 U	130 U	1.3 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	17	33 U	72	6.5 U	1.3 U	130 U	1.3 U
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	140	100	120	16	1.3 U	730	1.3 U
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	370	350	310	54	1.3 U	2600	1.3 U
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	13 U	33 U	32 U	6.5 U	1.3 U	130 U	1.3 U
1,4-Dichlorobenzene	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
1,2,4-Trichlorobenzene	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
1,3-Dichlorobenzene	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
Hexachlorobutadiene	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
1,2-Dichlorobenzene	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
Isopropyltoluene	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
Ethylbenzene	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
Styrene	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
cis-1,3-Dichloropropene	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
trans-1,3-Dichloropropene	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
N-Propylbenzene	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
N-Butylbenzene	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
4-Chlorotoluene	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
1,2-Dibromoethane	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
1,2-Dichloroethane	ug/kg	--	2.5 J Z	--	3.9 U	--	4.5 U	--
4-Methyl-2-Pentanone	ug/kg	--	8.5 U	--	7.7 U	--	8.9 U	--
1,3,5-Trimethylbenzene	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
Bromobenzene	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
Toluene	ug/kg	--	0.09 J Z	--	0.10 J Z	--	0.14 J Z	--
Chlorobenzene	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
2-Chloroethyl Vinyl Ether	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
1,4-Dioxane	ug/kg	--	14 U	--	14 U	--	15 U	--
Dibromochloromethane	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
Tetrachloroethene	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
sec-Butylbenzene	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
1,3-Dichloropropane	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
cis-1,2-Dichloroethene	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
trans-1,2-Dichloroethene	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
Methyl tert-Butyl Ether	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
m,p-Xylene	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
Carbon tetrachloride	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
1,1-Dichloropropene	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
2-Hexanone	ug/kg	--	8.5 U	--	7.7 U	--	8.9 U	--
2,2-Dichloropropane	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--
1,1,1,2-Tetrachloroethane	ug/kg	--	4.2 U	--	3.9 U	--	4.5 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

		Sample Name	SL-083-SA6-SB-9.0-10.0	SL-084-SA6-SB-4.0-5.0	SL-084-SA6-SB-9.0-10.0	SL-085-SA6-SB-4.0-5.0	SL-085-SA6-SB-7.0-8.0	SL-086-SA6-SB-4.0-5.0	SL-086-SA6-SB-9.0-10.0
		Sample Date	07/13/2011	07/19/2011	07/19/2011	07/19/2011	07/19/2011	07/20/2011	07/20/2011
		Sample Type	N	N	N	N	N	N	N
		SDG	DE199	DE203	DE203	DE203	DE203	DE204	DE204
		Start Depth	9	4	9	4	7	4	9
		End Depth	10	5	10	5	8	5	10
Acetone	ug/kg		--	11.0 U B	--	7.7 U B	--	12	--
Chloroform	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
Benzene	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
1,1,1-Trichloroethane	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
Bromomethane	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
Chloromethane	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
Dibromomethane	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
Bromochloromethane	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
Chloroethane	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
Vinyl Chloride	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
Methylene chloride	ug/kg		--	4.2 U B	--	3.9 U B	--	15.0 U B	--
Bromoform	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
Bromodichloromethane	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
1,1-Dichloroethane	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
1,1-Dichloroethene	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
Trichlorofluoromethane	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
Dichlorodifluoromethane	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
Freon 113a	ug/kg		--	5.3 U	--	4.8 U	--	5.6 U	--
Freon 113	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
1,2-Dichloropropane	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
2-Butanone	ug/kg		--	8.5 U	--	7.7 U	--	8.9 U	--
1,1,2-Trichloroethane	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
Trichloroethene	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
1,1,2,2-Tetrachloroethane	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
Chlorotrifluoroethene	ug/kg		--	5.3 U	--	4.8 U	--	5.6 U	--
1,2,3-Trichlorobenzene	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
o-Xylene	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
2-Chlorotoluene	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
1,2,4-Trimethylbenzene	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
1,2-Dibromo-3-chloropropane	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
1,2,3-Trichloropropane	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
tert-Butylbenzene	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--
Isopropylbenzene	ug/kg		--	4.2 U	--	3.9 U	--	4.5 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-088-SA6-SB-4.0-5.0	SL-088-SA6-SB-9.0-10.0	SL-089-SA6-SB-4.0-5.0	SL-089-SA6-SB-9.0-10.0	SL-090-SA6-SB-3.0-4.0	SL-097-SA6-SB-1.5-2.5	SL-098-SA6-SS-0.0-0.5
Sample Date		07/14/2011	07/14/2011	07/27/2011	07/27/2011	07/28/2011	07/20/2011	07/12/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE200	DE200	DE210	DE210	DE211	DE204	DE198
Start Depth		4	9	4	9	3	1.5	0
End Depth		5	10	5	10	4	2.5	0.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	1.3 U	1.1 U	0.9 U	1 U	1.0 U	1.0 U	--
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	65 U	1.3 U	2.6 U	2.7 U	1.3 U	32 U	6.1 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	65 U	1.3 U	2.6 U	0.93 J Z	1.3 U	32 U	6.1 U
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	160	2.1	9.5	21	1.3 U	84	22
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	700	5.5	36	66	0.66 J Z	500	86
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	65 U	1.3 U	2.6 U	2.7 U	1.3 U	32 U	6.1 U
1,4-Dichlorobenzene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
1,2,4-Trichlorobenzene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
1,3-Dichlorobenzene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
Hexachlorobutadiene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
1,2-Dichlorobenzene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
Isopropyltoluene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
Ethylbenzene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
Styrene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
cis-1,3-Dichloropropene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
trans-1,3-Dichloropropene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
N-Propylbenzene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
N-Butylbenzene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
4-Chlorotoluene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
1,2-Dibromoethane	ug/kg	4.0 U	--	--	--	--	4.3 U	--
1,2-Dichloroethane	ug/kg	4.0 U	--	--	--	--	4.3 U	--
4-Methyl-2-Pentanone	ug/kg	8.0 U	--	--	--	--	8.5 U	--
1,3,5-Trimethylbenzene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
Bromobenzene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
Toluene	ug/kg	4.0 U	--	--	--	--	0.14 J Z	--
Chlorobenzene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
2-Chloroethyl Vinyl Ether	ug/kg	4.0 U	--	--	--	--	4.3 U	--
1,4-Dioxane	ug/kg	15 U	--	--	--	--	16 U	--
Dibromochloromethane	ug/kg	4.0 U	--	--	--	--	4.3 U	--
Tetrachloroethene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
sec-Butylbenzene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
1,3-Dichloropropane	ug/kg	4.0 U	--	--	--	--	4.3 U	--
cis-1,2-Dichloroethene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
trans-1,2-Dichloroethene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
Methyl tert-Butyl Ether	ug/kg	4.0 U	--	--	--	--	4.3 U	--
m,p-Xylene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
Carbon tetrachloride	ug/kg	4.0 U	--	--	--	--	4.3 U	--
1,1-Dichloropropene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
2-Hexanone	ug/kg	8.0 U	--	--	--	--	8.5 U	--
2,2-Dichloropropane	ug/kg	4.0 U	--	--	--	--	4.3 U	--
1,1,1,2-Tetrachloroethane	ug/kg	4.0 U	--	--	--	--	4.3 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-088-SA6-SB-4.0-5.0	SL-088-SA6-SB-9.0-10.0	SL-089-SA6-SB-4.0-5.0	SL-089-SA6-SB-9.0-10.0	SL-090-SA6-SB-3.0-4.0	SL-097-SA6-SB-1.5-2.5	SL-098-SA6-SS-0.0-0.5
Sample Date		07/14/2011	07/14/2011	07/27/2011	07/27/2011	07/28/2011	07/20/2011	07/12/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE200	DE200	DE210	DE210	DE211	DE204	DE198
Start Depth		4	9	4	9	3	1.5	0
End Depth		5	10	5	10	4	2.5	0.5
Acetone	ug/kg	21.0 U B	--	--	--	--	8.2 J Z	--
Chloroform	ug/kg	4.0 U	--	--	--	--	4.3 U	--
Benzene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
1,1,1-Trichloroethane	ug/kg	4.0 U	--	--	--	--	4.3 U	--
Bromomethane	ug/kg	4.0 U	--	--	--	--	4.3 U	--
Chloromethane	ug/kg	4.0 U	--	--	--	--	4.3 U	--
Dibromomethane	ug/kg	4.0 U	--	--	--	--	4.3 U	--
Bromochloromethane	ug/kg	4.0 U	--	--	--	--	4.3 U	--
Chloroethane	ug/kg	4.0 U	--	--	--	--	4.3 U	--
Vinyl Chloride	ug/kg	4.0 U	--	--	--	--	4.3 U	--
Methylene chloride	ug/kg	5.7 U B	--	--	--	--	10.0 U B	--
Bromoform	ug/kg	4.0 U	--	--	--	--	4.3 U	--
Bromodichloromethane	ug/kg	4.0 U	--	--	--	--	4.3 U	--
1,1-Dichloroethane	ug/kg	4.0 U	--	--	--	--	4.3 U	--
1,1-Dichloroethene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
Trichlorofluoromethane	ug/kg	4.0 U	--	--	--	--	4.3 U	--
Dichlorodifluoromethane	ug/kg	4.0 U	--	--	--	--	4.3 U	--
Freon 113a	ug/kg	5.0 U	--	--	--	--	5.3 U	--
Freon 113	ug/kg	4.0 U	--	--	--	--	4.3 U	--
1,2-Dichloropropane	ug/kg	4.0 U	--	--	--	--	4.3 U	--
2-Butanone	ug/kg	8.0 U	--	--	--	--	8.5 U	--
1,1,2-Trichloroethane	ug/kg	4.0 U	--	--	--	--	4.3 U	--
Trichloroethene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
1,1,2,2-Tetrachloroethane	ug/kg	4.0 U	--	--	--	--	4.3 U	--
Chlorotrifluoroethene	ug/kg	5.0 U	--	--	--	--	5.3 U	--
1,2,3-Trichlorobenzene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
o-Xylene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
2-Chlorotoluene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
1,2,4-Trimethylbenzene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
1,2-Dibromo-3-chloropropane	ug/kg	4.0 U	--	--	--	--	4.3 U	--
1,2,3-Trichloropropane	ug/kg	4.0 U	--	--	--	--	4.3 U	--
tert-Butylbenzene	ug/kg	4.0 U	--	--	--	--	4.3 U	--
Isopropylbenzene	ug/kg	4.0 U	--	--	--	--	4.3 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-098-SA6-SB-2.0-3.0	SL-103-SA6-SB-4.0-5.0	SL-103-SA6-SB-9.0-10.0	SL-104-SA6-SB-2.5-3.5	SL-105-SA6-SB-2.5-3.5	SL-109-SA6-SS-0.0-0.5	SL-110-SA6-SS-0.0-0.5
Sample Date		07/25/2011	07/22/2011	07/22/2011	07/21/2011	07/21/2011	07/12/2011	07/12/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE208	DE207	DE207	DE206	DE206	DE198	DE198
Start Depth		2	4	9	2.5	2.5	0	0
End Depth		3	5	10	3.5	3.5	0.5	0.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	1 U	0.9 U	1.0 U	1.0 U	0.9 U	--	--
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	1.3 U	1.3 U	1.3 U	32 U	1.3 U	120 U	120 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	1.3 U	1.3 U	1.3 U	32 U	1.4	90 J Z	81 J Z
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	1.3 UJ FD	1.3 U	0.74 J Z	78	1.8	1400	1100
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	0.65 J FD, Q, Z	1.3 U	1.3 U	370	6.0	3600	2800
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	1.3 U	1.3 U	1.3 U	32 U	1.3 U	120 U	120 U
1,4-Dichlorobenzene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
1,2,4-Trichlorobenzene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
1,3-Dichlorobenzene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
Hexachlorobutadiene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
1,2-Dichlorobenzene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
Isopropyltoluene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
Ethylbenzene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
Styrene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
cis-1,3-Dichloropropene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
trans-1,3-Dichloropropene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
N-Propylbenzene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
N-Butylbenzene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
4-Chlorotoluene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
1,2-Dibromoethane	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
1,2-Dichloroethane	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
4-Methyl-2-Pentanone	ug/kg	8.2 U	--	--	8.4 U	7.8 U	--	--
1,3,5-Trimethylbenzene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
Bromobenzene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
Toluene	ug/kg	4.1 U B	--	--	0.18 J Z	0.10 J Z	--	--
Chlorobenzene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
2-Chloroethyl Vinyl Ether	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
1,4-Dioxane	ug/kg	14 U	--	--	14 U	15 U	--	--
Dibromochloromethane	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
Tetrachloroethene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
sec-Butylbenzene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
1,3-Dichloropropane	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
cis-1,2-Dichloroethene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
trans-1,2-Dichloroethene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
Methyl tert-Butyl Ether	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
m,p-Xylene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
Carbon tetrachloride	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
1,1-Dichloropropene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
2-Hexanone	ug/kg	8.2 U	--	--	8.4 U	7.8 U	--	--
2,2-Dichloropropane	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
1,1,1,2-Tetrachloroethane	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A13
Volatiles-Validated Data
HSA-6

Sample Name		SL-098-SA6-SB-2.0-3.0	SL-103-SA6-SB-4.0-5.0	SL-103-SA6-SB-9.0-10.0	SL-104-SA6-SB-2.5-3.5	SL-105-SA6-SB-2.5-3.5	SL-109-SA6-SS-0.0-0.5	SL-110-SA6-SS-0.0-0.5
Sample Date		07/25/2011	07/22/2011	07/22/2011	07/21/2011	07/21/2011	07/12/2011	07/12/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE208	DE207	DE207	DE206	DE206	DE198	DE198
Start Depth		2	4	9	2.5	2.5	0	0
End Depth		3	5	10	3.5	3.5	0.5	0.5
Acetone	ug/kg	8.2 U	--	--	8.6	7.3 J Z	--	--
Chloroform	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
Benzene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
1,1,1-Trichloroethane	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
Bromomethane	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
Chloromethane	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
Dibromomethane	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
Bromochloromethane	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
Chloroethane	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
Vinyl Chloride	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
Methylene chloride	ug/kg	4.1 U B	--	--	10.0 U B	13.0 U B	--	--
Bromoform	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
Bromodichloromethane	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
1,1-Dichloroethane	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
1,1-Dichloroethene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
Trichlorofluoromethane	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
Dichlorodifluoromethane	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
Freon 113a	ug/kg	5.2 UJ C	--	--	5.2 U	4.9 U	--	--
Freon 113	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
1,2-Dichloropropane	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
2-Butanone	ug/kg	8.2 U	--	--	8.4 U	7.8 U	--	--
1,1,2-Trichloroethane	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
Trichloroethene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
1,1,2,2-Tetrachloroethane	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
Chlorotrifluoroethene	ug/kg	5.2 U	--	--	5.2 U	4.9 U	--	--
1,2,3-Trichlorobenzene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
o-Xylene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
2-Chlorotoluene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
1,2,4-Trimethylbenzene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
1,2-Dibromo-3-chloropropane	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
1,2,3-Trichloropropane	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
tert-Butylbenzene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--
Isopropylbenzene	ug/kg	4.1 U	--	--	4.2 U	3.9 U	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-113-SA6-SS-0.0-0.5	SL-113-SA6-SB-4.0-5.0	SL-113-SA6-SB-7.0-8.0	SL-114-SA6-SB-4.0-5.0	SL-114-SA6-SB-9.0-10.0	SL-116-SA6-SB-2.5-3.5	SL-117-SA6-SB-2.0-3.0
Sample Date		07/12/2011	08/26/2011	08/26/2011	08/05/2011	08/05/2011	07/13/2011	07/27/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE198	DE233	DE233	DE218	DE218	DE199	DE210
Start Depth		0	4	7	4	9	2.5	2
End Depth		0.5	5	8	5	10	3.5	3
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	--	1.1 U	1.1 U	1 U	1 U	1.0 U	1 U
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	130 U	63 U	13 U	1.3 U	1.3 U	6.5 U	6.3 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	190	63 U	13 U	1.3 U	1.3 U	6.5 U	6.3 U
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	1900	240	64	0.64 J Z	1.2 J Z	26	37
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	4200	910	190	0.85 J Z	2.4	100	130
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	130 U	63 U	13 U	1.3 U	1.3 U	6.5 U	6.3 U
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	4.3 U	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	4.3 U	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	4.3 U	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	4.3 U	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	4.3 U	--
Isopropyltoluene	ug/kg	--	--	--	--	--	4.3 U	--
Ethylbenzene	ug/kg	--	--	--	--	--	4.3 U	--
Styrene	ug/kg	--	--	--	--	--	4.3 U	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	4.3 U	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	4.3 U	--
N-Propylbenzene	ug/kg	--	--	--	--	--	4.3 U	--
N-Butylbenzene	ug/kg	--	--	--	--	--	4.3 U	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	4.3 U	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	4.3 U	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	4.3 U	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	8.6 U	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	4.3 U	--
Bromobenzene	ug/kg	--	--	--	--	--	4.3 U	--
Toluene	ug/kg	--	--	--	--	--	4.3 U	--
Chlorobenzene	ug/kg	--	--	--	--	--	4.3 U	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	4.3 U	--
1,4-Dioxane	ug/kg	--	--	--	--	--	15 U	--
Dibromochloromethane	ug/kg	--	--	--	--	--	4.3 U	--
Tetrachloroethene	ug/kg	--	--	--	--	--	4.3 U	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	4.3 U	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	4.3 U	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	4.3 U	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	4.3 U	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	4.3 U	--
m,p-Xylene	ug/kg	--	--	--	--	--	4.3 U	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	4.3 U	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	4.3 U	--
2-Hexanone	ug/kg	--	--	--	--	--	8.6 U	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	4.3 U	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	4.3 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-113-SA6-SS-0.0-0.5	SL-113-SA6-SB-4.0-5.0	SL-113-SA6-SB-7.0-8.0	SL-114-SA6-SB-4.0-5.0	SL-114-SA6-SB-9.0-10.0	SL-116-SA6-SB-2.5-3.5	SL-117-SA6-SB-2.0-3.0
Sample Date		07/12/2011	08/26/2011	08/26/2011	08/05/2011	08/05/2011	07/13/2011	07/27/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE198	DE233	DE233	DE218	DE218	DE199	DE210
Start Depth		0	4	7	4	9	2.5	2
End Depth		0.5	5	8	5	10	3.5	3
Acetone	ug/kg	--	--	--	--	--	9.0 UJ B, C	--
Chloroform	ug/kg	--	--	--	--	--	4.3 U	--
Benzene	ug/kg	--	--	--	--	--	4.3 U	--
1,1,1-Trichloroethane	ug/kg	--	--	--	--	--	4.3 U	--
Bromomethane	ug/kg	--	--	--	--	--	4.3 U	--
Chloromethane	ug/kg	--	--	--	--	--	4.3 U	--
Dibromomethane	ug/kg	--	--	--	--	--	4.3 U	--
Bromochloromethane	ug/kg	--	--	--	--	--	4.3 U	--
Chloroethane	ug/kg	--	--	--	--	--	4.3 U	--
Vinyl Chloride	ug/kg	--	--	--	--	--	4.3 U	--
Methylene chloride	ug/kg	--	--	--	--	--	4.3 UJ B, F, L	--
Bromoform	ug/kg	--	--	--	--	--	4.3 U	--
Bromodichloromethane	ug/kg	--	--	--	--	--	4.3 U	--
1,1-Dichloroethane	ug/kg	--	--	--	--	--	4.3 U	--
1,1-Dichloroethene	ug/kg	--	--	--	--	--	4.3 U	--
Trichlorofluoromethane	ug/kg	--	--	--	--	--	4.3 U	--
Dichlorodifluoromethane	ug/kg	--	--	--	--	--	4.3 U	--
Freon 113a	ug/kg	--	--	--	--	--	5.3 U	--
Freon 113	ug/kg	--	--	--	--	--	4.3 U	--
1,2-Dichloropropane	ug/kg	--	--	--	--	--	4.3 U	--
2-Butanone	ug/kg	--	--	--	--	--	8.6 U	--
1,1,2-Trichloroethane	ug/kg	--	--	--	--	--	4.3 U	--
Trichloroethene	ug/kg	--	--	--	--	--	4.3 U	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	--	4.3 U	--
Chlorotrifluoroethene	ug/kg	--	--	--	--	--	5.3 U	--
1,2,3-Trichlorobenzene	ug/kg	--	--	--	--	--	4.3 U	--
o-Xylene	ug/kg	--	--	--	--	--	4.3 U	--
2-Chlorotoluene	ug/kg	--	--	--	--	--	4.3 U	--
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	4.3 U	--
1,2-Dibromo-3-chloropropane	ug/kg	--	--	--	--	--	4.3 UJ C	--
1,2,3-Trichloropropane	ug/kg	--	--	--	--	--	4.3 U	--
tert-Butylbenzene	ug/kg	--	--	--	--	--	4.3 U	--
Isopropylbenzene	ug/kg	--	--	--	--	--	4.3 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-118-SA6-SB-4.0-5.0	SL-118-SA6-SB-10.5-11.5	SL-122-SA6-SB-0.0-0.5	SL-123-SA6-SB-4.0-5.0	SL-123-SA6-SB-7.0-8.0	SL-124-SA6-SB-4.0-5.0	SL-124-SA6-SB-12.5-13.5
Sample Date		07/13/2011	07/13/2011	07/29/2011	07/29/2011	07/29/2011	07/22/2011	07/22/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE199	DE199	DE212	DE212	DE212	DE207	DE207
Start Depth		4	10.5	0	4	7	4	12.5
End Depth		5	11.5	0.5	5	8	5	13.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	0.9 U	1.1 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U
EFH (C12-C14)	mg/kg	--	--	--	--	12.5 U B	--	29.9 U B
EFH (C12-C14)	mg/kg	1.3 U	1.3 U	24 U	26 U	26 U	6.5 U	6.6 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	0.58 J Z	1.3 U	24 U	26 U	26 U	6.5 U	20
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	6.1	2.7	91	67	120	24	63
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	14	3.5	260	250	400	71	170
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	1.3 U	1.3 U	24 U	26 U	26 U	6.5 U	6.6 U
1,4-Dichlorobenzene	ug/kg	3.9 U	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	3.9 U	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	3.9 U	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	3.9 U	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	3.9 U	--	--	--	--	--	--
Isopropyltoluene	ug/kg	3.9 U	--	--	--	--	--	--
Ethylbenzene	ug/kg	3.9 U	--	--	--	--	--	--
Styrene	ug/kg	3.9 U	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	3.9 U	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	3.9 U	--	--	--	--	--	--
N-Propylbenzene	ug/kg	3.9 U	--	--	--	--	--	--
N-Butylbenzene	ug/kg	3.9 U	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	3.9 U	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	3.9 U	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	3.9 U	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	7.7 U	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	3.9 U	--	--	--	--	--	--
Bromobenzene	ug/kg	3.9 U	--	--	--	--	--	--
Toluene	ug/kg	3.9 U B	--	--	--	--	--	--
Chlorobenzene	ug/kg	3.9 U	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	3.9 U	--	--	--	--	--	--
1,4-Dioxane	ug/kg	16 U	--	--	--	--	--	--
Dibromochloromethane	ug/kg	3.9 U	--	--	--	--	--	--
Tetrachloroethene	ug/kg	3.9 U	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	3.9 U	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	3.9 U	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	3.9 U	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	3.9 U	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	3.9 U	--	--	--	--	--	--
m,p-Xylene	ug/kg	3.9 U	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	3.9 U	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	3.9 U	--	--	--	--	--	--
2-Hexanone	ug/kg	7.7 U	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	3.9 U	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	3.9 U	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-118-SA6-SB-4.0-5.0	SL-118-SA6-SB-10.5-11.5	SL-122-SA6-SB-0.0-0.5	SL-123-SA6-SB-4.0-5.0	SL-123-SA6-SB-7.0-8.0	SL-124-SA6-SB-4.0-5.0	SL-124-SA6-SB-12.5-13.5
Sample Date		07/13/2011	07/13/2011	07/29/2011	07/29/2011	07/29/2011	07/22/2011	07/22/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE199	DE199	DE212	DE212	DE212	DE207	DE207
Start Depth		4	10.5	0	4	7	4	12.5
End Depth		5	11.5	0.5	5	8	5	13.5
Acetone	ug/kg	7.9 UJ B, C	--	--	--	--	--	--
Chloroform	ug/kg	3.9 U	--	--	--	--	--	--
Benzene	ug/kg	3.9 U	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	3.9 U	--	--	--	--	--	--
Bromomethane	ug/kg	3.9 U	--	--	--	--	--	--
Chloromethane	ug/kg	3.9 U	--	--	--	--	--	--
Dibromomethane	ug/kg	3.9 U	--	--	--	--	--	--
Bromochloromethane	ug/kg	3.9 U	--	--	--	--	--	--
Chloroethane	ug/kg	3.9 U	--	--	--	--	--	--
Vinyl Chloride	ug/kg	3.9 U	--	--	--	--	--	--
Methylene chloride	ug/kg	3.9 UJ B, F, L	--	--	--	--	--	--
Bromoform	ug/kg	3.9 U	--	--	--	--	--	--
Bromodichloromethane	ug/kg	3.9 U	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg	3.9 U	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg	3.9 U	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg	3.9 U	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg	3.9 U	--	--	--	--	--	--
Freon 113a	ug/kg	4.8 U	--	--	--	--	--	--
Freon 113	ug/kg	3.9 U	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg	3.9 U	--	--	--	--	--	--
2-Butanone	ug/kg	7.7 U	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	3.9 U	--	--	--	--	--	--
Trichloroethene	ug/kg	3.9 U	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	3.9 U	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg	4.8 U	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg	3.9 U	--	--	--	--	--	--
o-Xylene	ug/kg	3.9 U	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	3.9 U	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	3.9 U	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg	3.9 UJ C	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg	3.9 U	--	--	--	--	--	--
tert-Butylbenzene	ug/kg	3.9 U	--	--	--	--	--	--
Isopropylbenzene	ug/kg	3.9 U	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

	Sample Name	SL-125-SA6-SB-4.0-5.0	SL-125-SA6-SB-20.0-21.0	SL-126-SA6-SS-0.0-0.5	SL-126-SA6-SB-4.0-5.0	SL-126-SA6-SB-9.0-10.0	SL-127-SA6-SS-0.0-0.5	SL-127-SA6-SB-2.0-3.0
	Sample Date	07/29/2011	07/29/2011	07/14/2011	07/29/2011	07/29/2011	07/18/2011	08/01/2011
	Sample Type	N	N	N	N	N	N	N
	SDG	DE212	DE212	DE201	DE212	DE212	DE202	DE213
	Start Depth	4	20	0	4	9	0	2
	End Depth	5	21	0.5	5	10	0.5	3
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	1 U	0.9 U	--	1 U	1 U	--	1.3 U
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	2.6 R Q	14 U	6.1 U	1.3 U	1.3 U	6.0 U	12 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	2.6 UJ FD	14 U	2.3 J Z	1.3 U	1.3 U	5.0 J Z	12 U
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	7.7 J FD, Q	31	21	1.3 U	1.3 U	120	100
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	19 J FD	120	69	0.71 J Z	2.4	290	260
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	2.6 R Q	14 U	6.1 U	1.3 U	1.3 U	6.0 U	12 U
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A13
Volatiles-Validated Data
HSA-6

		Sample Name	SL-125-SA6-SB-4.0-5.0	SL-125-SA6-SB-20.0-21.0	SL-126-SA6-SS-0.0-0.5	SL-126-SA6-SB-4.0-5.0	SL-126-SA6-SB-9.0-10.0	SL-127-SA6-SS-0.0-0.5	SL-127-SA6-SB-2.0-3.0
		Sample Date	07/29/2011	07/29/2011	07/14/2011	07/29/2011	07/29/2011	07/18/2011	08/01/2011
		Sample Type	N	N	N	N	N	N	N
		SDG	DE212	DE212	DE201	DE212	DE212	DE202	DE213
		Start Depth	4	20	0	4	9	0	2
		End Depth	5	21	0.5	5	10	0.5	3
Acetone	ug/kg		--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--
Benzene	ug/kg		--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg		--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--
Dibromomethane	ug/kg		--	--	--	--	--	--	--
Bromochloromethane	ug/kg		--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--
Methylene chloride	ug/kg		--	--	--	--	--	--	--
Bromoform	ug/kg		--	--	--	--	--	--	--
Bromodichloromethane	ug/kg		--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg		--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg		--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg		--	--	--	--	--	--	--
Freon 113a	ug/kg		--	--	--	--	--	--	--
Freon 113	ug/kg		--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--
2-Butanone	ug/kg		--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--
Trichloroethene	ug/kg		--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg		--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--
o-Xylene	ug/kg		--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg		--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg		--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg		--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg		--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg		--	--	--	--	--	--	--
Isopropylbenzene	ug/kg		--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

	Sample Name	SL-128-SA6-SS-0.0-0.5	SL-128-SA6-SB-4.0-5.0	SL-128-SA6-SB-7.5-8.5	SL-133-SA6-SS-0.0-0.5	SL-134-SA6-SS-0.0-0.5	SL-135-SA6-SB-4.0-5.0	SL-136-SA6-SB-4.0-5.0
	Sample Date	07/18/2011	08/02/2011	08/02/2011	07/18/2011	07/18/2011	07/11/2011	07/12/2011
	Sample Type	N	N	N	N	N	N	N
	SDG	DE202	DE214	DE214	DE202	DE202	DE197	DE198
	Start Depth	0	4	7.5	0	0	4	4
	End Depth	0.5	5	8.5	0.5	0.5	5	5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	--	1.1 U	1.0 U	--	--	1.2 U	1 U
EFH (C12-C14)	mg/kg	--	--	--	--	--	36.6 U B	--
EFH (C12-C14)	mg/kg	1.2 U	1.3 U	1.3 U	6.1 U	6.1 U	1.4 U	1.3 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	3.6	1.3 U	1.3 U	3.3 J Z	3.1 J Z	1.4 U	1.3 U
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	19	0.61 J Z	3.2	35	36	0.47 J Z	1.3 U
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	46	2.1	8.9	160	180	0.70 J Z	0.71 J Z
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	0.62 J Z	1.3 U	1.3 U	6.1 U	6.1 U	1.4 U	1.3 U
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
Hexachlorobutadiene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
Isopropyltoluene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
Ethylbenzene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
Styrene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
N-Propylbenzene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
N-Butylbenzene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
4-Chlorotoluene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
1,2-Dibromoethane	ug/kg	0.167UJ B, Q, E	--	--	--	--	3.9 U	4.0 U
1,2-Dichloroethane	ug/kg	--	--	--	--	--	3.9 U	4.0 U
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	7.8 U	8.0 U
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
Bromobenzene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
Toluene	ug/kg	--	--	--	--	--	3.9 U B	4.0 U B
Chlorobenzene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	3.9 U	4.0 U
1,4-Dioxane	ug/kg	--	--	--	--	--	15 U	15 U
Dibromochloromethane	ug/kg	--	--	--	--	--	3.9 U	4.0 U
Tetrachloroethene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
sec-Butylbenzene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
1,3-Dichloropropane	ug/kg	--	--	--	--	--	3.9 U	4.0 U
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	3.9 U	4.0 U
m,p-Xylene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
Carbon tetrachloride	ug/kg	--	--	--	--	--	3.9 U	4.0 U
1,1-Dichloropropene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
2-Hexanone	ug/kg	--	--	--	--	--	7.8 U	8.0 U
2,2-Dichloropropane	ug/kg	--	--	--	--	--	3.9 U	4.0 U
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	3.9 U	4.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-128-SA6-SS-0.0-0.5	SL-128-SA6-SB-4.0-5.0	SL-128-SA6-SB-7.5-8.5	SL-133-SA6-SS-0.0-0.5	SL-134-SA6-SS-0.0-0.5	SL-135-SA6-SB-4.0-5.0	SL-136-SA6-SB-4.0-5.0
Sample Date		07/18/2011	08/02/2011	08/02/2011	07/18/2011	07/18/2011	07/11/2011	07/12/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE202	DE214	DE214	DE202	DE202	DE197	DE198
Start Depth		0	4	7.5	0	0	4	4
End Depth		0.5	5	8.5	0.5	0.5	5	5
Acetone	ug/kg	--	--	--	--	--	15.0 U B	11.0 U B
Chloroform	ug/kg	--	--	--	--	--	3.9 U	4.0 U
Benzene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
1,1,1-Trichloroethane	ug/kg	--	--	--	--	--	3.9 U	4.0 U
Bromomethane	ug/kg	--	--	--	--	--	3.9 U	4.0 U
Chloromethane	ug/kg	--	--	--	--	--	3.9 U	4.0 U
Dibromomethane	ug/kg	--	--	--	--	--	3.9 U	4.0 U
Bromochloromethane	ug/kg	--	--	--	--	--	3.9 U	4.0 U
Chloroethane	ug/kg	--	--	--	--	--	3.9 U	4.0 U
Vinyl Chloride	ug/kg	--	--	--	--	--	3.9 U	4.0 U
Methylene chloride	ug/kg	--	--	--	--	--	7.6 UJ B, L	5.4 UJ B, L
Bromoform	ug/kg	--	--	--	--	--	3.9 U	4.0 U
Bromodichloromethane	ug/kg	--	--	--	--	--	3.9 U	4.0 U
1,1-Dichloroethane	ug/kg	--	--	--	--	--	3.9 U	4.0 U
1,1-Dichloroethene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
Trichlorofluoromethane	ug/kg	--	--	--	--	--	3.9 U	4.0 U
Dichlorodifluoromethane	ug/kg	--	--	--	--	--	3.9 U	4.0 U
Freon 113a	ug/kg	--	--	--	--	--	4.9 U	5.0 U
Freon 113	ug/kg	--	--	--	--	--	3.9 U	4.0 U
1,2-Dichloropropane	ug/kg	--	--	--	--	--	3.9 U	4.0 U
2-Butanone	ug/kg	--	--	--	--	--	7.8 U	8.0 U
1,1,2-Trichloroethane	ug/kg	--	--	--	--	--	3.9 U	4.0 U
Trichloroethene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	--	3.9 U	4.0 U
Chlorotrifluoroethene	ug/kg	--	--	--	--	--	4.9 U	5.0 U
1,2,3-Trichlorobenzene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
o-Xylene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
2-Chlorotoluene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
1,2-Dibromo-3-chloropropane	ug/kg	--	--	--	--	--	3.9 U	4.0 U
1,2,3-Trichloropropane	ug/kg	--	--	--	--	--	3.9 U	4.0 U
tert-Butylbenzene	ug/kg	--	--	--	--	--	3.9 U	4.0 U
Isopropylbenzene	ug/kg	--	--	--	--	--	3.9 U	4.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-136-SA6-SB-9.0-10.0	SL-138-SA6-SB-4.0-5.0	SL-138-SA6-SB-9.0-10.0	SL-139-SA6-SB-4.0-5.0	SL-139-SA6-SB-9.0-10.0	SL-142-SA6-SS-0.0-0.5	SL-143-SA6-SS-0.0-0.5
Sample Date		07/12/2011	07/11/2011	07/11/2011	07/12/2011	07/12/2011	07/18/2011	07/18/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE198	DE197	DE197	DE198	DE198	DE202	DE202
Start Depth		9	4	9	4	9	0	0
End Depth		10	5	10	5	10	0.5	0.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	1.1 U	1.1 U	1.1 U	1.0 U	1.0 U	--	--
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	1.3 U	1.3 U	13 U	1.3 U	1.3 U	12 U	2.4 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	1.3 U	1.3 U	5.5 J Z	1.3 U	1.3 U	4.5 J Z	4.1
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	1.3 U	1.3 U	25	1.3 U	2.8	82	37
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	0.75 J Z	0.81 J Z	84	0.73 J Z	24	320	110
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	1.3 U	1.3 U	13 U	1.3 U	1.3 U	12 U	2.4 U
1,4-Dichlorobenzene	ug/kg	--	4.4 U	--	3.8 U	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	4.4 U	--	3.8 U	--	--	--
1,3-Dichlorobenzene	ug/kg	--	4.4 U	--	3.8 U	--	--	--
Hexachlorobutadiene	ug/kg	--	4.4 U	--	3.8 U	--	--	--
1,2-Dichlorobenzene	ug/kg	--	4.4 U	--	3.8 U	--	--	--
Isopropyltoluene	ug/kg	--	4.4 U	--	3.8 U	--	--	--
Ethylbenzene	ug/kg	--	4.4 U	--	3.8 U	--	--	--
Styrene	ug/kg	--	4.4 U	--	3.8 U	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	4.4 U	--	3.8 U	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	4.4 U	--	3.8 U	--	--	--
N-Propylbenzene	ug/kg	--	4.4 U	--	3.8 U	--	--	--
N-Butylbenzene	ug/kg	--	4.4 U	--	3.8 U	--	--	--
4-Chlorotoluene	ug/kg	--	4.4 U	--	3.8 U	--	--	--
1,2-Dibromoethane	ug/kg	--	4.4 U	--	3.8 U	--	--	--
1,2-Dichloroethane	ug/kg	--	4.4 U	--	3.8 U	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	8.7 U	--	7.7 U	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	4.4 U	--	3.8 U	--	--	--
Bromobenzene	ug/kg	--	4.4 U	--	3.8 U	--	--	--
Toluene	ug/kg	--	4.4 U B	--	3.8 U B	--	--	--
Chlorobenzene	ug/kg	--	4.4 U	--	3.8 U	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	4.4 U	--	3.8 U	--	--	--
1,4-Dioxane	ug/kg	--	16 U	--	14 U	--	--	--
Dibromochloromethane	ug/kg	--	4.4 U	--	3.8 U	--	--	--
Tetrachloroethene	ug/kg	--	4.4 U	--	3.8 U	--	--	--
sec-Butylbenzene	ug/kg	--	4.4 U	--	3.8 U	--	--	--
1,3-Dichloropropane	ug/kg	--	4.4 U	--	3.8 U	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	4.4 U	--	3.8 U	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	4.4 U	--	3.8 U	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	4.4 U	--	3.8 U	--	--	--
m,p-Xylene	ug/kg	--	4.4 U	--	3.8 U	--	--	--
Carbon tetrachloride	ug/kg	--	4.4 U	--	3.8 U	--	--	--
1,1-Dichloropropene	ug/kg	--	4.4 U	--	3.8 U	--	--	--
2-Hexanone	ug/kg	--	8.7 U	--	7.7 U	--	--	--
2,2-Dichloropropane	ug/kg	--	4.4 U	--	3.8 U	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	4.4 U	--	3.8 U	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

		Sample Name	SL-136-SA6-SB-9.0-10.0	SL-138-SA6-SB-4.0-5.0	SL-138-SA6-SB-9.0-10.0	SL-139-SA6-SB-4.0-5.0	SL-139-SA6-SB-9.0-10.0	SL-142-SA6-SS-0.0-0.5	SL-143-SA6-SS-0.0-0.5
		Sample Date	07/12/2011	07/11/2011	07/11/2011	07/12/2011	07/12/2011	07/18/2011	07/18/2011
		Sample Type	N	N	N	N	N	N	N
		SDG	DE198	DE197	DE197	DE198	DE198	DE202	DE202
		Start Depth	9	4	9	4	9	0	0
		End Depth	10	5	10	5	10	0.5	0.5
Acetone	ug/kg		--	14.0 U B	--	9.6 U B	--	--	--
Chloroform	ug/kg		--	4.4 U	--	3.8 U	--	--	--
Benzene	ug/kg		--	4.4 U	--	3.8 U	--	--	--
1,1,1-Trichloroethane	ug/kg		--	4.4 U	--	3.8 U	--	--	--
Bromomethane	ug/kg		--	4.4 U	--	3.8 U	--	--	--
Chloromethane	ug/kg		--	4.4 U	--	3.8 U	--	--	--
Dibromomethane	ug/kg		--	4.4 U	--	3.8 U	--	--	--
Bromochloromethane	ug/kg		--	4.4 U	--	3.8 U	--	--	--
Chloroethane	ug/kg		--	4.4 U	--	3.8 U	--	--	--
Vinyl Chloride	ug/kg		--	4.4 U	--	3.8 U	--	--	--
Methylene chloride	ug/kg		--	7.0 UJ B, L	--	4.2 UJ B, L	--	--	--
Bromoform	ug/kg		--	4.4 U	--	3.8 U	--	--	--
Bromodichloromethane	ug/kg		--	4.4 U	--	3.8 U	--	--	--
1,1-Dichloroethane	ug/kg		--	4.4 U	--	3.8 U	--	--	--
1,1-Dichloroethene	ug/kg		--	4.4 U	--	3.8 U	--	--	--
Trichlorofluoromethane	ug/kg		--	4.4 U	--	3.8 U	--	--	--
Dichlorodifluoromethane	ug/kg		--	4.4 U	--	3.8 U	--	--	--
Freon 113a	ug/kg		--	5.5 U	--	4.8 U	--	--	--
Freon 113	ug/kg		--	4.4 U	--	3.8 U	--	--	--
1,2-Dichloropropane	ug/kg		--	4.4 U	--	3.8 U	--	--	--
2-Butanone	ug/kg		--	8.7 U	--	7.7 U	--	--	--
1,1,2-Trichloroethane	ug/kg		--	4.4 U	--	3.8 U	--	--	--
Trichloroethene	ug/kg		--	4.4 U	--	3.8 U	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	4.4 U	--	3.8 U	--	--	--
Chlorotrifluoroethene	ug/kg		--	5.5 U	--	4.8 U	--	--	--
1,2,3-Trichlorobenzene	ug/kg		--	4.4 U	--	3.8 U	--	--	--
o-Xylene	ug/kg		--	4.4 U	--	3.8 U	--	--	--
2-Chlorotoluene	ug/kg		--	4.4 U	--	3.8 U	--	--	--
1,2,4-Trimethylbenzene	ug/kg		--	4.4 U	--	3.8 U	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg		--	4.4 U	--	3.8 U	--	--	--
1,2,3-Trichloropropane	ug/kg		--	4.4 U	--	3.8 U	--	--	--
tert-Butylbenzene	ug/kg		--	4.4 U	--	3.8 U	--	--	--
Isopropylbenzene	ug/kg		--	4.4 U	--	3.8 U	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-145-SA6-SS-0.0-0.5	SL-145-SA6-SB-3.5-4.5	SL-146-SA6-SS-0.0-0.5	SL-147-SA6-SS-0.0-0.5	SL-148-SA6-SS-0.0-0.5	SL-149-SA6-SS-0.0-0.5	SL-150-SA6-SS-0.0-0.5
Sample Date		07/18/2011	08/02/2011	07/18/2011	07/18/2011	07/18/2011	07/11/2011	07/18/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE202	DE214	DE202	DE202	DE202	DE197	DE202
Start Depth		0	3.5	0	0	0	0	0
End Depth		0.5	4.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	--	1.0 U	--	--	--	--	--
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	12 U	1.3 U	60 U	6.0 U	12 U	12 U	1.2 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	6.3 J Z	1.3 U	40 J Z	3.4 J Z	5.0 J Z	4.4 J Z	1.4
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	160	1.3 U	550	63	84	25	15
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	420	1.0 J Z	1500	200	290	83	59
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	12 U	1.3 U	60 U	6.0 U	12 U	12 U	0.78 J Z
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	6.52 U B	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-145-SA6-SS-0.0-0.5	SL-145-SA6-SB-3.5-4.5	SL-146-SA6-SS-0.0-0.5	SL-147-SA6-SS-0.0-0.5	SL-148-SA6-SS-0.0-0.5	SL-149-SA6-SS-0.0-0.5	SL-150-SA6-SS-0.0-0.5
Sample Date		07/18/2011	08/02/2011	07/18/2011	07/18/2011	07/18/2011	07/11/2011	07/18/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE202	DE214	DE202	DE202	DE202	DE197	DE202
Start Depth		0	3.5	0	0	0	0	0
End Depth		0.5	4.5	0.5	0.5	0.5	0.5	0.5
Acetone	ug/kg	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--
Benzene	ug/kg	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Bromomethane	ug/kg	--	--	--	--	--	--	--
Chloromethane	ug/kg	--	--	--	--	--	--	--
Dibromomethane	ug/kg	--	--	--	--	--	--	--
Bromochloromethane	ug/kg	--	--	--	--	--	--	--
Chloroethane	ug/kg	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg	--	--	--	--	--	--	--
Methylene chloride	ug/kg	--	--	--	--	--	--	--
Bromoform	ug/kg	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg	--	--	--	--	--	--	--
Freon 113a	ug/kg	--	--	--	--	--	--	--
Freon 113	ug/kg	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
2-Butanone	ug/kg	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
o-Xylene	ug/kg	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg	--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg	--	--	--	--	--	--	--
Isopropylbenzene	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-156-SA6-SS-0.0-0.5	SL-156-SA6-SB-3.0-4.0	SL-157-SA6-SS-0.0-0.5	SL-157-SA6-SB-2.0-3.0	SL-159-SA6-SS-0.0-0.5	SL-159-SA6-SB-4.0-5.0	SL-159-SA6-SB-7.0-8.0
Sample Date		07/20/2011	08/15/2011	07/20/2011	08/15/2011	07/20/2011	08/16/2011	08/16/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE204	DE224	DE204	DE224	DE204	DE225	DE225
Start Depth		0	3	0	2	0	4	7
End Depth		0.5	4	0.5	3	0.5	5	8
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	--	1.1 U	--	1 U	--	0.9 U	0.9 U
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	6.2 U	1.3 U	6.1 U	1.3 U	1.2 U	1.3 U	1.3 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	6.2 U	0.68 J Z	2.5 J Z	1.9	1.4	1.3 U	1.3 U
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	17	1.3 U	26	2.6	8.2	1.3 U	1.3 U
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	69	1.6	100	8.9	31	0.87 J Z	1.7
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	6.2 U	1.3 U	6.1 U	1.3 U	0.42 J Z	1.3 U	1.3 U
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	5.55 U B	5.77 U B	--	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-156-SA6-SS-0.0-0.5	SL-156-SA6-SB-3.0-4.0	SL-157-SA6-SS-0.0-0.5	SL-157-SA6-SB-2.0-3.0	SL-159-SA6-SS-0.0-0.5	SL-159-SA6-SB-4.0-5.0	SL-159-SA6-SB-7.0-8.0
Sample Date		07/20/2011	08/15/2011	07/20/2011	08/15/2011	07/20/2011	08/16/2011	08/16/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE204	DE224	DE204	DE224	DE204	DE225	DE225
Start Depth		0	3	0	2	0	4	7
End Depth		0.5	4	0.5	3	0.5	5	8
Acetone	ug/kg	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--
Benzene	ug/kg	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Bromomethane	ug/kg	--	--	--	--	--	--	--
Chloromethane	ug/kg	--	--	--	--	--	--	--
Dibromomethane	ug/kg	--	--	--	--	--	--	--
Bromochloromethane	ug/kg	--	--	--	--	--	--	--
Chloroethane	ug/kg	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg	--	--	--	--	--	--	--
Methylene chloride	ug/kg	--	--	--	--	--	--	--
Bromoform	ug/kg	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg	--	--	--	--	--	--	--
Freon 113a	ug/kg	--	--	--	--	--	--	--
Freon 113	ug/kg	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
2-Butanone	ug/kg	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
o-Xylene	ug/kg	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg	--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg	--	--	--	--	--	--	--
Isopropylbenzene	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-160-SA6-SS-0.0-0.5	SL-160-SA6-SB-4.0-5.0	SL-162-SA6-SS-0.0-0.5	SL-164-SA6-SS-0.0-0.5	SL-164-SA6-SB-4.0-5.0	SL-164-SA6-SB-8.0-9.0	SL-165-SA6-SS-0.0-0.5
Sample Date		07/20/2011	08/16/2011	07/20/2011	07/20/2011	08/16/2011	08/16/2011	07/20/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE204	DE225	DE204	DE204	DE225	DE225	DE204
Start Depth		0	4	0	0	4	8	0
End Depth		0.5	5	0.5	0.5	5	9	0.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	--	1 U	--	--	1 U	1.0 U	--
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	1.2 U	1.3 U	12 U	1.2 U	1.3 U	1.4 U	1.2 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	1.1 J Q, Z	0.51 J Z	4.2 J Z	0.86 J Z	0.46 J Z	1.4 U	0.87 J Z
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	12 J Q	1.6	44	4.9	2.6	0.64 J Z	5.1
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	37	0.98 J Z	230	15	5.2	0.91 J Z	14
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	1.2 J Q	1.3 U	12 U	0.51 J Z	1.3 U	1.4 U	1.2 U
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-160-SA6-SS-0.0-0.5	SL-160-SA6-SB-4.0-5.0	SL-162-SA6-SS-0.0-0.5	SL-164-SA6-SS-0.0-0.5	SL-164-SA6-SB-4.0-5.0	SL-164-SA6-SB-8.0-9.0	SL-165-SA6-SS-0.0-0.5
Sample Date		07/20/2011	08/16/2011	07/20/2011	07/20/2011	08/16/2011	08/16/2011	07/20/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE204	DE225	DE204	DE204	DE225	DE225	DE204
Start Depth		0	4	0	0	4	8	0
End Depth		0.5	5	0.5	0.5	5	9	0.5
Acetone	ug/kg	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--
Benzene	ug/kg	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Bromomethane	ug/kg	--	--	--	--	--	--	--
Chloromethane	ug/kg	--	--	--	--	--	--	--
Dibromomethane	ug/kg	--	--	--	--	--	--	--
Bromochloromethane	ug/kg	--	--	--	--	--	--	--
Chloroethane	ug/kg	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg	--	--	--	--	--	--	--
Methylene chloride	ug/kg	--	--	--	--	--	--	--
Bromoform	ug/kg	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg	--	--	--	--	--	--	--
Freon 113a	ug/kg	--	--	--	--	--	--	--
Freon 113	ug/kg	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
2-Butanone	ug/kg	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
o-Xylene	ug/kg	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg	--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg	--	--	--	--	--	--	--
Isopropylbenzene	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-166-SA6-SS-0.0-0.5	SL-166-SA6-SB-3.0-4.0	SL-167-SA6-SS-0.0-0.5	SL-167-SA6-SB-3.0-4.0	SL-168-SA6-SS-0.0-0.5	SL-168-SA6-SB-2.0-3.0	SL-169-SA6-SS-0.0-0.5
Sample Date		07/19/2011	08/15/2011	07/20/2011	08/15/2011	07/19/2011	08/12/2011	07/19/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE203	DE224	DE204	DE224	DE203	DE223	DE203
Start Depth		0	3	0	3	0	2	0
End Depth		0.5	4	0.5	4	0.5	3	0.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	--	1.0 U	--	1.0 U	--	1 U	--
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	2.4 U	1.3 U	6.1 U	1.3 U	60 U	1.3 U	30 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	1.0 J Z	1.3 U	3.8 J Z	1.3 U	60 U	1.3 U	30 U
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	12	1.0 J Z	30	0.46 J Z	280	1.3	88
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	38	2.1	110	1.6	700	4.3	170
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	2.4 U	1.3 U	6.1 U	1.3 U	60 U	1.3 U	30 U
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-166-SA6-SS-0.0-0.5	SL-166-SA6-SB-3.0-4.0	SL-167-SA6-SS-0.0-0.5	SL-167-SA6-SB-3.0-4.0	SL-168-SA6-SS-0.0-0.5	SL-168-SA6-SB-2.0-3.0	SL-169-SA6-SS-0.0-0.5
Sample Date		07/19/2011	08/15/2011	07/20/2011	08/15/2011	07/19/2011	08/12/2011	07/19/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE203	DE224	DE204	DE224	DE203	DE223	DE203
Start Depth		0	3	0	3	0	2	0
End Depth		0.5	4	0.5	4	0.5	3	0.5
Acetone	ug/kg	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--
Benzene	ug/kg	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Bromomethane	ug/kg	--	--	--	--	--	--	--
Chloromethane	ug/kg	--	--	--	--	--	--	--
Dibromomethane	ug/kg	--	--	--	--	--	--	--
Bromochloromethane	ug/kg	--	--	--	--	--	--	--
Chloroethane	ug/kg	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg	--	--	--	--	--	--	--
Methylene chloride	ug/kg	--	--	--	--	--	--	--
Bromoform	ug/kg	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg	--	--	--	--	--	--	--
Freon 113a	ug/kg	--	--	--	--	--	--	--
Freon 113	ug/kg	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
2-Butanone	ug/kg	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
o-Xylene	ug/kg	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg	--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg	--	--	--	--	--	--	--
Isopropylbenzene	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-171-SA6-SS-0.0-0.5	SL-171-SA6-SB-4.0-5.0	SL-190-SA6-SS-0.0-0.5	SL-191-SA6-SB-0.0-1.0	SL-192-SA6-SS-0.0-0.5	SL-192-SA6-SB-4.0-5.0	SL-192-SA6-SB-9.0-10.0
Sample Date		07/19/2011	08/12/2011	07/25/2011	10/04/2011	07/25/2011	08/29/2011	08/29/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE203	DE223	DE208	DE261	DE208	DE234	DE234
Start Depth		0	4	0	0	0	4	9
End Depth		0.5	5	0.5	1	0.5	5	10
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	--	1 U	--	0.9 U	--	1.1 U	1.2 U
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	30 U	1.3 U	1.2 U	12 U	12 U	1.3 U	1.3 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	30 U	1.3 U	1.9	12 U	12 U	0.53 J Z	2.1
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	57	1.3 U	11	32	86	7.6	39
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	170	0.84 J FD, Z	28	150	290	9.4	29
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	30 U	1.3 U	0.59 J Z	12 U	12 U	1.3 U	1.3 U
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-171-SA6-SS-0.0-0.5	SL-171-SA6-SB-4.0-5.0	SL-190-SA6-SS-0.0-0.5	SL-191-SA6-SB-0.0-1.0	SL-192-SA6-SS-0.0-0.5	SL-192-SA6-SB-4.0-5.0	SL-192-SA6-SB-9.0-10.0
Sample Date		07/19/2011	08/12/2011	07/25/2011	10/04/2011	07/25/2011	08/29/2011	08/29/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE203	DE223	DE208	DE261	DE208	DE234	DE234
Start Depth		0	4	0	0	0	4	9
End Depth		0.5	5	0.5	1	0.5	5	10
Acetone	ug/kg	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--
Benzene	ug/kg	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Bromomethane	ug/kg	--	--	--	--	--	--	--
Chloromethane	ug/kg	--	--	--	--	--	--	--
Dibromomethane	ug/kg	--	--	--	--	--	--	--
Bromochloromethane	ug/kg	--	--	--	--	--	--	--
Chloroethane	ug/kg	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg	--	--	--	--	--	--	--
Methylene chloride	ug/kg	--	--	--	--	--	--	--
Bromoform	ug/kg	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg	--	--	--	--	--	--	--
Freon 113a	ug/kg	--	--	--	--	--	--	--
Freon 113	ug/kg	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
2-Butanone	ug/kg	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
o-Xylene	ug/kg	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg	--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg	--	--	--	--	--	--	--
Isopropylbenzene	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

	Sample Name	SL-193-SA6-SS-0.0-0.5	SL-195-SA6-SB-1.0-2.0	SL-197-SA6-SB-4.0-5.0	SL-198-SA6-SB-4.0-5.0	SL-198-SA6-SB-9.0-10.0	SL-199-SA6-SB-4.0-5.0	SL-200-SA6-SB-4.0-5.0
	Sample Date	07/25/2011	08/25/2011	08/24/2011	08/31/2011	08/31/2011	08/31/2011	08/31/2011
	Sample Type	N	N	N	N	N	N	N
	SDG	DE208	DE232	DE231	DE236	DE236	DE236	DE236
	Start Depth	0	1	4	4	9	4	4
	End Depth	0.5	2	5	5	10	5	5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	--	1.0 U	0.9 U	1 U	0.9 U	1 U	1.0 U
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	1.2 U	1.2 U	1.3 U	1.3 UJ H	1.3 UJ H	1.3 UJ H	1.3 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	0.85 J Z	1.2 U	1.3 U	2.1 J H	1.3 UJ H	1.3 UJ H	1.3 U
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	7.1	1.1 J Z	1.4	5.6 J H	1.5 J H	1.3 UJ H	1.3 U
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	19	3.7	3.8	5.4 J H, Q	6.5 J H	1.3 UJ H	1.3 U
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	1.2 U	1.2 U	1.3 U	1.3 UJ H	1.3 UJ H	1.3 UJ H	1.3 U
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A13
Volatiles-Validated Data
HSA-6

Sample Name		SL-193-SA6-SS-0.0-0.5	SL-195-SA6-SB-1.0-2.0	SL-197-SA6-SB-4.0-5.0	SL-198-SA6-SB-4.0-5.0	SL-198-SA6-SB-9.0-10.0	SL-199-SA6-SB-4.0-5.0	SL-200-SA6-SB-4.0-5.0
Sample Date		07/25/2011	08/25/2011	08/24/2011	08/31/2011	08/31/2011	08/31/2011	08/31/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE208	DE232	DE231	DE236	DE236	DE236	DE236
Start Depth		0	1	4	4	9	4	4
End Depth		0.5	2	5	5	10	5	5
Acetone	ug/kg	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--
Benzene	ug/kg	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Bromomethane	ug/kg	--	--	--	--	--	--	--
Chloromethane	ug/kg	--	--	--	--	--	--	--
Dibromomethane	ug/kg	--	--	--	--	--	--	--
Bromochloromethane	ug/kg	--	--	--	--	--	--	--
Chloroethane	ug/kg	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg	--	--	--	--	--	--	--
Methylene chloride	ug/kg	--	--	--	--	--	--	--
Bromoform	ug/kg	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg	--	--	--	--	--	--	--
Freon 113a	ug/kg	--	--	--	--	--	--	--
Freon 113	ug/kg	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
2-Butanone	ug/kg	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
o-Xylene	ug/kg	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg	--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg	--	--	--	--	--	--	--
Isopropylbenzene	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

	Sample Name	SL-201-SA6-SB-2.0-3.0	SL-204-SA6-SS-0.0-0.5	SL-204-SA6-SB-4.0-5.0	SL-205-SA6-SS-0.0-0.5	SL-205-SA6-SB-4.0-5.0	SL-206-SA6-SS-0.0-0.5	SL-206-SA6-SB-4.0-5.0
	Sample Date	08/31/2011	07/26/2011	09/06/2011	07/26/2011	09/07/2011	07/26/2011	10/04/2011
	Sample Type	N	N	N	N	N	N	N
	SDG	DE236	DE209	DE238	DE209	DE239	DE209	DE261
	Start Depth	2	0	4	0	4	0	4
	End Depth	3	0.5	5	0.5	5	0.5	5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	1.0 U	--	0.9 U	--	1.0 U	--	1.1 U
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	1.3 UJ H	1.2 U	0.87 J Z	2.5 R Q	1.3 U	13 U	1.3 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	0.42 J H, Z	0.90 J Z	0.48 J Z	1.2 J Z	1.3 U	13 U	0.76 J Z
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	3.8 J H	6.5	1.3 U	13	1.3 U	81	3.4
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	12 J H	16	0.96 J Z	48	1.3	280	13
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	1.3 UJ H	1.2 U	1.3 U	2.5 R Q	1.3 U	13 U	1.3 U
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-201-SA6-SB-2.0-3.0	SL-204-SA6-SS-0.0-0.5	SL-204-SA6-SB-4.0-5.0	SL-205-SA6-SS-0.0-0.5	SL-205-SA6-SB-4.0-5.0	SL-206-SA6-SS-0.0-0.5	SL-206-SA6-SB-4.0-5.0
Sample Date		08/31/2011	07/26/2011	09/06/2011	07/26/2011	09/07/2011	07/26/2011	10/04/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE236	DE209	DE238	DE209	DE239	DE209	DE261
Start Depth		2	0	4	0	4	0	4
End Depth		3	0.5	5	0.5	5	0.5	5
Acetone	ug/kg	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--
Benzene	ug/kg	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Bromomethane	ug/kg	--	--	--	--	--	--	--
Chloromethane	ug/kg	--	--	--	--	--	--	--
Dibromomethane	ug/kg	--	--	--	--	--	--	--
Bromochloromethane	ug/kg	--	--	--	--	--	--	--
Chloroethane	ug/kg	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg	--	--	--	--	--	--	--
Methylene chloride	ug/kg	--	--	--	--	--	--	--
Bromoform	ug/kg	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg	--	--	--	--	--	--	--
Freon 113a	ug/kg	--	--	--	--	--	--	--
Freon 113	ug/kg	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
2-Butanone	ug/kg	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
o-Xylene	ug/kg	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg	--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg	--	--	--	--	--	--	--
Isopropylbenzene	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-208-SA6-SB-4.0-5.0	SL-210-SA6-SB-4.0-5.0	SL-210-SA6-SB-9.0-10.0	SL-213-SA6-SS-0.0-0.5	SL-213-SA6-SB-4.0-5.0	SL-215-SA6-SS-0.0-0.5	SL-215-SA6-SB-4.0-5.0
Sample Date		08/24/2011	09/09/2011	09/09/2011	07/26/2011	08/31/2011	07/20/2011	08/22/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE231	DE240	DE240	DE209	DE236	DE204	DE229
Start Depth		4	4	9	0	4	0	4
End Depth		5	5	10	0.5	5	0.5	5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	0.9 U	1.0 U	0.9 U	--	0.9 U	--	0.9 U
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	1.3 U	1.3 U	1.3 U	2.5 U	1.3 UJ H	6.1 U	1.4 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	1.3 U	0.93 J Z	1.3 U	0.89 J Z	1.3 UJ H	10	1.4 U
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	3.5	3.4 J Q	1.1 J Z	15	1.3 UJ H	79	1.4 U
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	8.3	6.6 J Q	4.1	50	0.93 J H, Z	280	1.1 J Z
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	1.3 U	1.3 U	1.3 U	2.5 U	1.3 UJ H	6.1 U	1.4 U
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

		Sample Name	SL-208-SA6-SB-4.0-5.0	SL-210-SA6-SB-4.0-5.0	SL-210-SA6-SB-9.0-10.0	SL-213-SA6-SS-0.0-0.5	SL-213-SA6-SB-4.0-5.0	SL-215-SA6-SS-0.0-0.5	SL-215-SA6-SB-4.0-5.0
		Sample Date	08/24/2011	09/09/2011	09/09/2011	07/26/2011	08/31/2011	07/20/2011	08/22/2011
		Sample Type	N	N	N	N	N	N	N
		SDG	DE231	DE240	DE240	DE209	DE236	DE204	DE229
		Start Depth	4	4	9	0	4	0	4
		End Depth	5	5	10	0.5	5	0.5	5
Acetone	ug/kg		--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--
Benzene	ug/kg		--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg		--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--
Dibromomethane	ug/kg		--	--	--	--	--	--	--
Bromochloromethane	ug/kg		--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--
Methylene chloride	ug/kg		--	--	--	--	--	--	--
Bromoform	ug/kg		--	--	--	--	--	--	--
Bromodichloromethane	ug/kg		--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg		--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg		--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg		--	--	--	--	--	--	--
Freon 113a	ug/kg		--	--	--	--	--	--	--
Freon 113	ug/kg		--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--
2-Butanone	ug/kg		--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--
Trichloroethene	ug/kg		--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg		--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--
o-Xylene	ug/kg		--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg		--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg		--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg		--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg		--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg		--	--	--	--	--	--	--
Isopropylbenzene	ug/kg		--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-216-SA6-SS-0.0-0.5	SL-217-SA6-SS-0.0-0.5	SL-217-SA6-SB-4.0-5.0	SL-217-SA6-SB-7.5-8.5	SL-219-SA6-SS-0.0-0.5	SL-219-SA6-SB-2.5-3.5	SL-221-SA6-SB-1.0-2.0
Sample Date		07/21/2011	07/26/2011	09/09/2011	09/09/2011	07/21/2011	08/18/2011	08/17/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE205	DE209	DE240	DE240	DE205	DE227	DE226
Start Depth		0	0	4	7.5	0	2.5	1
End Depth		0.5	0.5	5	8.5	0.5	3.5	2
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	--	--	1.1 U	0.9 U	--	1 U	1 U
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	1.2 U	1.3 U	1.4 U	1.3 U	1.2 U	1.3 U	0.62 J L, Z
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	3.4	0.65 J Z	2.8	1.3 U	3.1	1.3 U	1.8 J L
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	21	5.2	3.0	1.3 U	14	1.3 U	1.3 U B
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	38	17	6.2	0.89 J Z	27	1.8 U B	1.3 U B
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	0.67 J Z	1.3 U	1.4 U	1.3 U	0.88 J Z	1.3 U	1.3 U
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-216-SA6-SS-0.0-0.5	SL-217-SA6-SS-0.0-0.5	SL-217-SA6-SB-4.0-5.0	SL-217-SA6-SB-7.5-8.5	SL-219-SA6-SS-0.0-0.5	SL-219-SA6-SB-2.5-3.5	SL-221-SA6-SB-1.0-2.0
Sample Date		07/21/2011	07/26/2011	09/09/2011	09/09/2011	07/21/2011	08/18/2011	08/17/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE205	DE209	DE240	DE240	DE205	DE227	DE226
Start Depth		0	0	4	7.5	0	2.5	1
End Depth		0.5	0.5	5	8.5	0.5	3.5	2
Acetone	ug/kg	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--
Benzene	ug/kg	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Bromomethane	ug/kg	--	--	--	--	--	--	--
Chloromethane	ug/kg	--	--	--	--	--	--	--
Dibromomethane	ug/kg	--	--	--	--	--	--	--
Bromochloromethane	ug/kg	--	--	--	--	--	--	--
Chloroethane	ug/kg	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg	--	--	--	--	--	--	--
Methylene chloride	ug/kg	--	--	--	--	--	--	--
Bromoform	ug/kg	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg	--	--	--	--	--	--	--
Freon 113a	ug/kg	--	--	--	--	--	--	--
Freon 113	ug/kg	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
2-Butanone	ug/kg	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
o-Xylene	ug/kg	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg	--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg	--	--	--	--	--	--	--
Isopropylbenzene	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-223-SA6-SB-2.5-3.5	SL-224-SA6-SB-3.0-4.0	SL-225-SA6-SB-3.0-4.0	SL-226-SA6-SB-3.5-4.5	SL-228-SA6-SS-0.0-0.5	SL-228-SA6-SB-4.0-5.0	SL-230-SA6-SS-0.0-0.5
Sample Date		08/17/2011	08/17/2011	10/04/2011	08/17/2011	07/21/2011	08/18/2011	10/06/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE226	DE226	DE261	DE226	DE206	DE227	DE263
Start Depth		2.5	3	3	3.5	0	4	0
End Depth		3.5	4	4	4.5	0.5	5	0.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	1.0 U	1.0 U	1.0 U	0.9 U	--	1 U	--
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	1.3 U	1.3 U	1.3 U	1.3 U	1.2 U	1.3 U	6.4 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	1.3 U	1.3 U	1.3 U	1.3 U	4.9 J Q	0.51 J L, Z	12
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	1.3 U	3.7 J FD, Q	1.0 J Z	2.0 U B	20 J FD	1.3 U	34
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	2.2 U B	9.6 J FD, Q	4.1	2.2 U B	36	3.7 U B	76
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	1.3 U	1.3 U	1.3 U	1.3 U	0.84 J Q, Z	1.3 U	6.4 U
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-223-SA6-SB-2.5-3.5	SL-224-SA6-SB-3.0-4.0	SL-225-SA6-SB-3.0-4.0	SL-226-SA6-SB-3.5-4.5	SL-228-SA6-SS-0.0-0.5	SL-228-SA6-SB-4.0-5.0	SL-230-SA6-SS-0.0-0.5
Sample Date		08/17/2011	08/17/2011	10/04/2011	08/17/2011	07/21/2011	08/18/2011	10/06/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE226	DE226	DE261	DE226	DE206	DE227	DE263
Start Depth		2.5	3	3	3.5	0	4	0
End Depth		3.5	4	4	4.5	0.5	5	0.5
Acetone	ug/kg	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--
Benzene	ug/kg	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Bromomethane	ug/kg	--	--	--	--	--	--	--
Chloromethane	ug/kg	--	--	--	--	--	--	--
Dibromomethane	ug/kg	--	--	--	--	--	--	--
Bromochloromethane	ug/kg	--	--	--	--	--	--	--
Chloroethane	ug/kg	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg	--	--	--	--	--	--	--
Methylene chloride	ug/kg	--	--	--	--	--	--	--
Bromoform	ug/kg	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg	--	--	--	--	--	--	--
Freon 113a	ug/kg	--	--	--	--	--	--	--
Freon 113	ug/kg	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
2-Butanone	ug/kg	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
o-Xylene	ug/kg	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg	--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg	--	--	--	--	--	--	--
Isopropylbenzene	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-230-SA6-SB-4.0-5.0	SL-233-SA6-SS-0.0-0.5	SL-240-SA6-SS-0.0-0.5	SL-245-SA6-SS-0.0-0.5	SL-246-SA6-SB-4.0-5.0	SL-247-SA6-SB-4.0-5.0	SL-249-SA6-SB-4.0-5.0
Sample Date		10/06/2011	07/22/2011	07/21/2011	07/25/2011	08/25/2011	08/25/2011	08/29/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE263	DE207	DE206	DE208	DE232	DE232	DE234
Start Depth		4	0	0	0	4	4	4
End Depth		5	0.5	0.5	0.5	5	5	5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	1.3 U	--	--	--	0.9 U	1 U	1.0 U
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	1.3 U	1.2 U	1.2 U	1.2 U	1.3 U	1.3 U	310 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	1.3 U	1.2 U	1.3	0.65 J Z	13	1.3 U	310 U
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	3.1	5.8	4.3	4.5	11	1.3 U	1800
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	4.5	14	16	11	16	0.83 J Z	4200
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	1.3 U	1.2 U	1.2 U	1.2 U	1.3 U	1.3 U	310 U
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-230-SA6-SB-4.0-5.0	SL-233-SA6-SS-0.0-0.5	SL-240-SA6-SS-0.0-0.5	SL-245-SA6-SS-0.0-0.5	SL-246-SA6-SB-4.0-5.0	SL-247-SA6-SB-4.0-5.0	SL-249-SA6-SB-4.0-5.0
Sample Date		10/06/2011	07/22/2011	07/21/2011	07/25/2011	08/25/2011	08/25/2011	08/29/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE263	DE207	DE206	DE208	DE232	DE232	DE234
Start Depth		4	0	0	0	4	4	4
End Depth		5	0.5	0.5	0.5	5	5	5
Acetone	ug/kg	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--
Benzene	ug/kg	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Bromomethane	ug/kg	--	--	--	--	--	--	--
Chloromethane	ug/kg	--	--	--	--	--	--	--
Dibromomethane	ug/kg	--	--	--	--	--	--	--
Bromochloromethane	ug/kg	--	--	--	--	--	--	--
Chloroethane	ug/kg	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg	--	--	--	--	--	--	--
Methylene chloride	ug/kg	--	--	--	--	--	--	--
Bromoform	ug/kg	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg	--	--	--	--	--	--	--
Freon 113a	ug/kg	--	--	--	--	--	--	--
Freon 113	ug/kg	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
2-Butanone	ug/kg	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
o-Xylene	ug/kg	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg	--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg	--	--	--	--	--	--	--
Isopropylbenzene	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-250-SA6-SB-3.0-4.0	SL-252-SA6-SB-4.0-5.0	SL-253-SA6-SS-0.0-0.5	SL-253-SA6-SB-4.0-5.0	SL-254-SA6-SS-0.0-0.5	SL-254-SA6-SB-2.5-3.5	SL-255-SA6-SS-0.0-0.5
Sample Date		08/26/2011	08/26/2011	07/25/2011	08/29/2011	07/25/2011	10/06/2011	07/25/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE233	DE233	DE208	DE234	DE208	DE263	DE208
Start Depth		3	4	0	4	0	2.5	0
End Depth		4	5	0.5	5	0.5	3.5	0.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	1 U	0.9 U	--	1.1 U	--	1.2 U	--
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	62 U	36 J FD	1.2 U	25 U	12 U	1.2 U	1.2 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	180	350 J FD	1.4	25 U	12 U	1.2 U	0.67 J Z
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	440	600 J FD	8.1	93	58	3.1	4.2
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	530	690 J FD	24	240	240	7.9	17
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	62 U	32 U	0.42 J Z	25 U	12 U	1.2 U	0.43 J Z
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	0.259 UJ B, Q
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-250-SA6-SB-3.0-4.0	SL-252-SA6-SB-4.0-5.0	SL-253-SA6-SS-0.0-0.5	SL-253-SA6-SB-4.0-5.0	SL-254-SA6-SS-0.0-0.5	SL-254-SA6-SB-2.5-3.5	SL-255-SA6-SS-0.0-0.5
Sample Date		08/26/2011	08/26/2011	07/25/2011	08/29/2011	07/25/2011	10/06/2011	07/25/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE233	DE233	DE208	DE234	DE208	DE263	DE208
Start Depth		3	4	0	4	0	2.5	0
End Depth		4	5	0.5	5	0.5	3.5	0.5
Acetone	ug/kg	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--
Benzene	ug/kg	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Bromomethane	ug/kg	--	--	--	--	--	--	--
Chloromethane	ug/kg	--	--	--	--	--	--	--
Dibromomethane	ug/kg	--	--	--	--	--	--	--
Bromochloromethane	ug/kg	--	--	--	--	--	--	--
Chloroethane	ug/kg	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg	--	--	--	--	--	--	--
Methylene chloride	ug/kg	--	--	--	--	--	--	--
Bromoform	ug/kg	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg	--	--	--	--	--	--	--
Freon 113a	ug/kg	--	--	--	--	--	--	--
Freon 113	ug/kg	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
2-Butanone	ug/kg	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
o-Xylene	ug/kg	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg	--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg	--	--	--	--	--	--	--
Isopropylbenzene	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-255-SA6-SB-2.0-3.0	SL-256-SA6-SS-0.0-0.5	SL-256-SA6-SB-2.5-3.5	SL-257-SA6-SB-1.5-2.5	SL-258-SA6-SB-0.0-0.83	SL-261-SA6-SB-1.5-2.5	SL-261-SA6-SB-9.0-10.0
Sample Date		08/29/2011	07/25/2011	08/26/2011	08/25/2011	09/01/2011	09/06/2011	09/06/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE234	DE208	DE233	DE232	DE237	DE238	DE238
Start Depth		2	0	2.5	1.5	0	1.5	9
End Depth		3	0.5	3.5	2.5	0.8	2.5	10
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	1.2 U	--	0.9 U	1 U	1.0 U	1 U	0.9 U
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	1.3 U	1.2 U	1.3 U	5.72 U B	6.1 U	1.3 U	1.3 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	1.3 U	0.99 J Z	1.3 U	0.92 J Z	2.5 J Z	1.3	1.3 U
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	1.3 U	7.2	0.56 J Z	7.4	23	8.7	1.3 U
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	1.2 J Z	26	1.5	13	49	15	1.2 J Z
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	1.3 U	0.44 J Z	1.3 U	1.2 U	6.1 U	1.3 U	1.3 U
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A13
Volatiles-Validated Data
HSA-6

Sample Name		SL-255-SA6-SB-2.0-3.0	SL-256-SA6-SS-0.0-0.5	SL-256-SA6-SB-2.5-3.5	SL-257-SA6-SB-1.5-2.5	SL-258-SA6-SB-0.0-0.83	SL-261-SA6-SB-1.5-2.5	SL-261-SA6-SB-9.0-10.0
Sample Date		08/29/2011	07/25/2011	08/26/2011	08/25/2011	09/01/2011	09/06/2011	09/06/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE234	DE208	DE233	DE232	DE237	DE238	DE238
Start Depth		2	0	2.5	1.5	0	1.5	9
End Depth		3	0.5	3.5	2.5	0.8	2.5	10
Acetone	ug/kg	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--
Benzene	ug/kg	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Bromomethane	ug/kg	--	--	--	--	--	--	--
Chloromethane	ug/kg	--	--	--	--	--	--	--
Dibromomethane	ug/kg	--	--	--	--	--	--	--
Bromochloromethane	ug/kg	--	--	--	--	--	--	--
Chloroethane	ug/kg	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg	--	--	--	--	--	--	--
Methylene chloride	ug/kg	--	--	--	--	--	--	--
Bromoform	ug/kg	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg	--	--	--	--	--	--	--
Freon 113a	ug/kg	--	--	--	--	--	--	--
Freon 113	ug/kg	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
2-Butanone	ug/kg	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
o-Xylene	ug/kg	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg	--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg	--	--	--	--	--	--	--
Isopropylbenzene	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-262-SA6-SB-4.0-5.0	SL-263-SA6-SB-4.0-5.0	SL-263-SA6-SB-9.0-10.0	SL-264-SA6-SB-0.4-1.4	SL-265-SA6-SB-4.0-5.0	SL-266-SA6-SB-4.0-5.0	SL-267-SA6-SB-4.0-5.0
Sample Date		09/01/2011	09/06/2011	09/06/2011	09/01/2011	10/11/2011	09/01/2011	08/30/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE237	DE238	DE238	DE237	DE266	DE237	DE235
Start Depth		4	4	9	0.4	4	4	4
End Depth		5	5	10	1.4	5	5	5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	0.9 U	0.9 U	0.9 U	1.1 U	0.9 U	0.9 U	1.2 U
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	1.3 U	1.3 U	1.3 U	1.2 U	1.3 U	1.3 U	1.2 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	1.3 U	1.3 U	1.3 U	1.2 U	1.3 U	1.3 U	1.2 U
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	1.3 U	1.3 U	1.3 U	1.2 U	4.0	1.3 U	1.5 J Q
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	0.83 J Q, Z	1.3 U	0.73 J Z	1.8	7.8	1.4	4.8 J Q
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	1.3 U	1.3 U	1.3 U	1.2 U	1.3 U	1.3 U	1.2 U
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-262-SA6-SB-4.0-5.0	SL-263-SA6-SB-4.0-5.0	SL-263-SA6-SB-9.0-10.0	SL-264-SA6-SB-0.4-1.4	SL-265-SA6-SB-4.0-5.0	SL-266-SA6-SB-4.0-5.0	SL-267-SA6-SB-4.0-5.0
Sample Date		09/01/2011	09/06/2011	09/06/2011	09/01/2011	10/11/2011	09/01/2011	08/30/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE237	DE238	DE238	DE237	DE266	DE237	DE235
Start Depth		4	4	9	0.4	4	4	4
End Depth		5	5	10	1.4	5	5	5
Acetone	ug/kg	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--
Benzene	ug/kg	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Bromomethane	ug/kg	--	--	--	--	--	--	--
Chloromethane	ug/kg	--	--	--	--	--	--	--
Dibromomethane	ug/kg	--	--	--	--	--	--	--
Bromochloromethane	ug/kg	--	--	--	--	--	--	--
Chloroethane	ug/kg	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg	--	--	--	--	--	--	--
Methylene chloride	ug/kg	--	--	--	--	--	--	--
Bromoform	ug/kg	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg	--	--	--	--	--	--	--
Freon 113a	ug/kg	--	--	--	--	--	--	--
Freon 113	ug/kg	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
2-Butanone	ug/kg	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
o-Xylene	ug/kg	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg	--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg	--	--	--	--	--	--	--
Isopropylbenzene	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-267-SA6-SB-9.0-10.0	SL-268-SA6-SS-0.0-0.5	SL-268-SA6-SB-4.0-5.0	SL-269-SA6-SB-1.5-2.5	SL-270-SA6-SB-2.0-3.0	SL-273-SA6-SB-4.0-5.0	SL-273-SA6-SB-9.0-10.0
Sample Date		08/30/2011	07/25/2011	10/06/2011	09/12/2011	08/31/2011	08/08/2011	08/08/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE235	DE208	DE263	DE241	DE236	DE219	DE219
Start Depth		9	0	4	1.5	2	4	9
End Depth		10	0.5	5	2.5	3	5	10
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	1.1 U	--	0.9 U	1 U	1 U	1.2 U	1.1 U
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	1.3 U	12 U	1.3 U	1.2 U	1.3 UJ H	1.3 U	1.4 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	1.3 U	10 J Z	0.61 J Z	1.2 U	1.3 UJ H	1.3 U	1.5
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	1.3 U	210	14	1.2 U	1.3 UJ H	1.3 U	9.9
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	1.7	450	29	0.81 J Z	0.96 J H, Z	0.56 J Z	29
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	1.3 U	12 U	1.3 U	1.2 U	1.3 UJ H	1.3 U	1.4 U
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

		Sample Name	SL-267-SA6-SB-9.0-10.0	SL-268-SA6-SS-0.0-0.5	SL-268-SA6-SB-4.0-5.0	SL-269-SA6-SB-1.5-2.5	SL-270-SA6-SB-2.0-3.0	SL-273-SA6-SB-4.0-5.0	SL-273-SA6-SB-9.0-10.0
		Sample Date	08/30/2011	07/25/2011	10/06/2011	09/12/2011	08/31/2011	08/08/2011	08/08/2011
		Sample Type	N	N	N	N	N	N	N
		SDG	DE235	DE208	DE263	DE241	DE236	DE219	DE219
		Start Depth	9	0	4	1.5	2	4	9
		End Depth	10	0.5	5	2.5	3	5	10
Acetone	ug/kg		--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--
Benzene	ug/kg		--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg		--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--
Dibromomethane	ug/kg		--	--	--	--	--	--	--
Bromochloromethane	ug/kg		--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--
Methylene chloride	ug/kg		--	--	--	--	--	--	--
Bromoform	ug/kg		--	--	--	--	--	--	--
Bromodichloromethane	ug/kg		--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg		--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg		--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg		--	--	--	--	--	--	--
Freon 113a	ug/kg		--	--	--	--	--	--	--
Freon 113	ug/kg		--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--
2-Butanone	ug/kg		--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--
Trichloroethene	ug/kg		--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg		--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--
o-Xylene	ug/kg		--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg		--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg		--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg		--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg		--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg		--	--	--	--	--	--	--
Isopropylbenzene	ug/kg		--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-275-SA6-SB-4.0-5.0	SL-275-SA6-SB-9.0-10.0	SL-276-SA6-SB-4.0-5.0	SL-276-SA6-SB-9.0-10.0	SL-278-SA6-SS-0.0-0.5	SL-279-SA6-SS-0.0-0.5	SL-279-SA6-SB-1.0-2.0
Sample Date		07/12/2011	07/12/2011	07/12/2011	07/12/2011	07/13/2011	07/13/2011	08/22/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE198	DE198	DE198	DE198	DE199	DE199	DE229
Start Depth		4	9	4	9	0	0	1
End Depth		5	10	5	10	0.5	0.5	2
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	1.1 U	1.1 U	1.0 U	1.1 U	12 U	--	1.1 U
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	1.3 U	1.3 U	13 U	1.3 U	310 U	6.2 U	16
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	1.3 U	1.3 U	9.4 J Z	1.3 U	310 U	2.1 J Z	2.8 J Z
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	1.3 U	1.3 U	130	1.3 U	1300	23	33
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	0.58 J Z	0.77 J Z	290	0.59 J Z	5100	120	45
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	1.3 U	1.3 U	13 U	1.3 U	310 U	6.2 U	2.9 J Z
1,4-Dichlorobenzene	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
1,2,4-Trichlorobenzene	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
1,3-Dichlorobenzene	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
Hexachlorobutadiene	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
1,2-Dichlorobenzene	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
Isopropyltoluene	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
Ethylbenzene	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
Styrene	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
cis-1,3-Dichloropropene	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
trans-1,3-Dichloropropene	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
N-Propylbenzene	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
N-Butylbenzene	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
4-Chlorotoluene	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
1,2-Dibromoethane	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
1,2-Dichloroethane	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
4-Methyl-2-Pentanone	ug/kg	8.9 U	--	8.5 U	--	8.4 U	--	9.0 U
1,3,5-Trimethylbenzene	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
Bromobenzene	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
Toluene	ug/kg	4.4 U B	--	4.2 U B	--	4.2 U B	0.259 UJ B, Q	0.36 J Z
Chlorobenzene	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
2-Chloroethyl Vinyl Ether	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
1,4-Dioxane	ug/kg	17 U	--	15 U	--	16 U	--	18 U
Dibromochloromethane	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
Tetrachloroethene	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
sec-Butylbenzene	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
1,3-Dichloropropane	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
cis-1,2-Dichloroethene	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
trans-1,2-Dichloroethene	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
Methyl tert-Butyl Ether	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
m,p-Xylene	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
Carbon tetrachloride	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
1,1-Dichloropropene	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
2-Hexanone	ug/kg	8.9 U	--	8.5 U	--	8.4 U	--	9.0 U
2,2-Dichloropropane	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
1,1,1,2-Tetrachloroethane	ug/kg	4.4 U	--	4.2 U	--	4.2 U	--	4.5 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

		Sample Name	SL-275-SA6-SB-4.0-5.0	SL-275-SA6-SB-9.0-10.0	SL-276-SA6-SB-4.0-5.0	SL-276-SA6-SB-9.0-10.0	SL-278-SA6-SS-0.0-0.5	SL-279-SA6-SS-0.0-0.5	SL-279-SA6-SB-1.0-2.0
		Sample Date	07/12/2011	07/12/2011	07/12/2011	07/12/2011	07/13/2011	07/13/2011	08/22/2011
		Sample Type	N	N	N	N	N	N	N
		SDG	DE198	DE198	DE198	DE198	DE199	DE199	DE229
		Start Depth	4	9	4	9	0	0	1
		End Depth	5	10	5	10	0.5	0.5	2
Acetone	ug/kg		12.0 U B	--	11.0 U B	--	8.4 UJ B, C	--	9.0 U
Chloroform	ug/kg		4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
Benzene	ug/kg		4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
1,1,1-Trichloroethane	ug/kg		4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
Bromomethane	ug/kg		4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
Chloromethane	ug/kg		4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
Dibromomethane	ug/kg		4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
Bromochloromethane	ug/kg		4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
Chloroethane	ug/kg		4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
Vinyl Chloride	ug/kg		4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
Methylene chloride	ug/kg		4.4 UJ B, L	--	4.2 UJ B, L	--	4.2 UJ B, L	--	4.5 U B
Bromoform	ug/kg		4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
Bromodichloromethane	ug/kg		4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
1,1-Dichloroethane	ug/kg		4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
1,1-Dichloroethene	ug/kg		4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
Trichlorofluoromethane	ug/kg		4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
Dichlorodifluoromethane	ug/kg		4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
Freon 113a	ug/kg		5.5 U	--	5.3 U	--	5.3 U	--	5.6 U
Freon 113	ug/kg		4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
1,2-Dichloropropane	ug/kg		4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
2-Butanone	ug/kg		8.9 U	--	8.5 U	--	8.4 U	--	9.0 U
1,1,2-Trichloroethane	ug/kg		4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
Trichloroethene	ug/kg		4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
1,1,2,2-Tetrachloroethane	ug/kg		4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
Chlorotrifluoroethene	ug/kg		5.5 U	--	5.3 U	--	5.3 U	--	5.6 U
1,2,3-Trichlorobenzene	ug/kg		4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
o-Xylene	ug/kg		4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
2-Chlorotoluene	ug/kg		4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
1,2,4-Trimethylbenzene	ug/kg		4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
1,2-Dibromo-3-chloropropane	ug/kg		4.4 U	--	4.2 U	--	4.2 UJ C	--	4.5 U
1,2,3-Trichloropropane	ug/kg		4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
tert-Butylbenzene	ug/kg		4.4 U	--	4.2 U	--	4.2 U	--	4.5 U
Isopropylbenzene	ug/kg		4.4 U	--	4.2 U	--	0.29 J Z	--	4.5 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-279-SA6-SB-4.0-5.0	SL-279-SA6-SB-9.0-10.0	SL-280-SA6-SS-0.0-0.5	SL-280-SA6-SB-4.0-5.0	SL-281-SA6-SS-0.0-0.5	SL-282-SA6-SS-0.0-0.5	SL-282-SA6-SS-0.0-0.5S
Sample Date		08/22/2011	08/22/2011	07/12/2011	08/12/2011	07/12/2011	11/30/2011	11/30/2011
Sample Type		N	N	N	N	N	N	Split
SDG		DE229	DE229	DE199	DE223	DE199	DE290	11L003
Start Depth		4	9	0	4	0	0	0
End Depth		5	10	0.5	5	0.5	0.5	0.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	1.1 U	1.1 U	--	1 U	--	--	--
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	11 U
EFH (C12-C14)	mg/kg	1.3 U	1.3 U	2.5 U	1.3 U	6.1 U	13 U	--
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	11 U
EFH (C15-C20)	mg/kg	1.3 U	0.67 J Z	2.6	1.1 J Z	4.2 J Z	13 U	--
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	15
EFH (C21-C30)	mg/kg	5.0	12	49	7.0	43	37	--
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	19
EFH (C30-C40)	mg/kg	9.9	24	71	22	150	140	--
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	11 U
EFH (C8-C11)	mg/kg	1.3 U	1.3 U	2.5 R Q	1.3 U	6.1 U	13 U	--
1,4-Dichlorobenzene	ug/kg	4.2 U	4.1 U	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	4.2 U	4.1 U	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	4.2 U	4.1 U	--	--	--	--	--
Hexachlorobutadiene	ug/kg	4.2 U	4.1 U	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	4.2 U	4.1 U	--	--	--	--	--
Isopropyltoluene	ug/kg	4.2 U	4.1 U	--	--	--	--	--
Ethylbenzene	ug/kg	4.2 U	4.1 U	--	--	--	--	--
Styrene	ug/kg	4.2 U	4.1 U	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	4.2 U	4.1 U	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	4.2 U	4.1 U	--	--	--	--	--
N-Propylbenzene	ug/kg	4.2 U	4.1 U	--	--	--	--	--
N-Butylbenzene	ug/kg	4.2 U	4.1 U	--	--	--	--	--
4-Chlorotoluene	ug/kg	4.2 U	4.1 U	--	--	--	--	--
1,2-Dibromoethane	ug/kg	4.2 U	4.1 U	--	--	--	--	--
1,2-Dichloroethane	ug/kg	4.2 U	4.1 U	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	8.5 U	8.1 U	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	4.2 U	4.1 U	--	--	--	--	--
Bromobenzene	ug/kg	4.2 U	4.1 U	--	--	--	--	--
Toluene	ug/kg	0.27 J Z	0.19 J Z	--	--	--	--	--
Chlorobenzene	ug/kg	4.2 U	4.1 U	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	4.2 U	4.1 U	--	--	--	--	--
1,4-Dioxane	ug/kg	23 U	16 U	--	--	--	--	--
Dibromochloromethane	ug/kg	4.2 U	4.1 U	--	--	--	--	--
Tetrachloroethene	ug/kg	4.2 U	4.1 U	--	--	--	--	--
sec-Butylbenzene	ug/kg	4.2 U	4.1 U	--	--	--	--	--
1,3-Dichloropropane	ug/kg	4.2 U	4.1 U	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	4.2 U	4.1 U	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	4.2 U	4.1 U	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	4.2 U	4.1 U	--	--	--	--	--
m,p-Xylene	ug/kg	4.2 U	4.1 U	--	--	--	--	--
Carbon tetrachloride	ug/kg	4.2 U	4.1 U	--	--	--	--	--
1,1-Dichloropropene	ug/kg	4.2 U	4.1 U	--	--	--	--	--
2-Hexanone	ug/kg	8.5 U	8.1 U	--	--	--	--	--
2,2-Dichloropropane	ug/kg	4.2 U	4.1 U	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	4.2 U	4.1 U	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

		Sample Name	SL-279-SA6-SB-4.0-5.0	SL-279-SA6-SB-9.0-10.0	SL-280-SA6-SS-0.0-0.5	SL-280-SA6-SB-4.0-5.0	SL-281-SA6-SS-0.0-0.5	SL-282-SA6-SS-0.0-0.5	SL-282-SA6-SS-0.0-0.5S
		Sample Date	08/22/2011	08/22/2011	07/12/2011	08/12/2011	07/12/2011	11/30/2011	11/30/2011
		Sample Type	N	N	N	N	N	N	Split
		SDG	DE229	DE229	DE199	DE223	DE199	DE290	11L003
		Start Depth	4	9	0	4	0	0	0
		End Depth	5	10	0.5	5	0.5	0.5	0.5
Acetone	ug/kg		8.5 U	8.1 U	--	--	--	--	--
Chloroform	ug/kg		4.2 U	4.1 U	--	--	--	--	--
Benzene	ug/kg		4.2 U	4.1 U	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg		4.2 U	4.1 U	--	--	--	--	--
Bromomethane	ug/kg		4.2 U	4.1 U	--	--	--	--	--
Chloromethane	ug/kg		4.2 U	4.1 U	--	--	--	--	--
Dibromomethane	ug/kg		4.2 U	4.1 U	--	--	--	--	--
Bromochloromethane	ug/kg		4.2 U	4.1 U	--	--	--	--	--
Chloroethane	ug/kg		4.2 U	4.1 U	--	--	--	--	--
Vinyl Chloride	ug/kg		4.2 U	4.1 U	--	--	--	--	--
Methylene chloride	ug/kg		4.2 U B	4.1 U B	--	--	--	--	--
Bromoform	ug/kg		4.2 U	4.1 U	--	--	--	--	--
Bromodichloromethane	ug/kg		4.2 U	4.1 U	--	--	--	--	--
1,1-Dichloroethane	ug/kg		4.2 U	4.1 U	--	--	--	--	--
1,1-Dichloroethene	ug/kg		4.2 U	4.1 U	--	--	--	--	--
Trichlorofluoromethane	ug/kg		4.2 U	4.1 U	--	--	--	--	--
Dichlorodifluoromethane	ug/kg		4.2 U	4.1 U	--	--	--	--	--
Freon 113a	ug/kg		5.3 U	5.1 U	--	--	--	--	--
Freon 113	ug/kg		4.2 U	4.1 U	--	--	--	--	--
1,2-Dichloropropane	ug/kg		4.2 U	4.1 U	--	--	--	--	--
2-Butanone	ug/kg		8.5 U	8.1 U	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		4.2 U	4.1 U	--	--	--	--	--
Trichloroethene	ug/kg		4.2 U	4.1 U	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		4.2 U	4.1 U	--	--	--	--	--
Chlorotrifluoroethene	ug/kg		5.3 U	5.1 U	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg		4.2 U	4.1 U	--	--	--	--	--
o-Xylene	ug/kg		4.2 U	4.1 U	--	--	--	--	--
2-Chlorotoluene	ug/kg		4.2 U	4.1 U	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg		4.2 U	4.1 U	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg		4.2 U	4.1 U	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg		4.2 U	4.1 U	--	--	--	--	--
tert-Butylbenzene	ug/kg		4.2 U	4.1 U	--	--	--	--	--
Isopropylbenzene	ug/kg		4.2 U	4.1 U	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

	Sample Name	SL-282-SA6-SB-2.5-3.5	SL-282-SA6-SB-2.5-3.5S	SL-282-SA6-SB-3.0	SL-283-SA6-SS-0.0-0.5	SL-283-SA6-SS-0.0-0.5S	SL-283-SA6-SB-4.0-5.0	SL-283-SA6-SB-4.0-5.0S
	Sample Date	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011
	Sample Type	N	Split	N	N	Split	N	Split
	SDG	DE290	11L003	11L003	DE290	11L003	DE290	11L003
	Start Depth	2.5	2.5	3	0	0	4	4
	End Depth	3.5	3.5	3	0.5	0.5	5	5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	1.1 U	--	--	--	--
GRO (C5-C12)	mg/kg	1.1 U	--	--	--	--	0.9 U	--
EFH (C12-C14)	mg/kg	--	1.1 U	--	--	11 U	--	1.1 U
EFH (C12-C14)	mg/kg	1.7 U	--	--	64 U	--	2.8 U	--
EFH (C15-C20)	mg/kg	--	1.1 U	--	--	11 U	--	1.1 U
EFH (C15-C20)	mg/kg	1.7 U	--	--	64 U	--	2.8 U	--
EFH (C21-C30)	mg/kg	--	1.1 U	--	--	89	--	1.3
EFH (C21-C30)	mg/kg	1.3 J Z	--	--	170	--	4.1	--
EFH (C30-C40)	mg/kg	--	1.1 U	--	--	120	--	1.1 U
EFH (C30-C40)	mg/kg	2.6	--	--	880	--	5.4	--
EFH (C8-C11)	mg/kg	--	0.85 J Z	--	--	11 U	--	1.3
EFH (C8-C11)	mg/kg	1.7 U	--	--	64 U	--	2.8 U	--
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-282-SA6-SB-2.5-3.5	SL-282-SA6-SB-2.5-3.5S	SL-282-SA6-SB-3.0	SL-283-SA6-SS-0.0-0.5	SL-283-SA6-SS-0.0-0.5S	SL-283-SA6-SB-4.0-5.0	SL-283-SA6-SB-4.0-5.0S
Sample Date		11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011
Sample Type		N	Split	N	N	Split	N	Split
SDG		DE290	11L003	11L003	DE290	11L003	DE290	11L003
Start Depth		2.5	2.5	3	0	0	4	4
End Depth		3.5	3.5	3	0.5	0.5	5	5
Acetone	ug/kg	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--
Benzene	ug/kg	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Bromomethane	ug/kg	--	--	--	--	--	--	--
Chloromethane	ug/kg	--	--	--	--	--	--	--
Dibromomethane	ug/kg	--	--	--	--	--	--	--
Bromochloromethane	ug/kg	--	--	--	--	--	--	--
Chloroethane	ug/kg	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg	--	--	--	--	--	--	--
Methylene chloride	ug/kg	--	--	--	--	--	--	--
Bromoform	ug/kg	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg	--	--	--	--	--	--	--
Freon 113a	ug/kg	--	--	--	--	--	--	--
Freon 113	ug/kg	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
2-Butanone	ug/kg	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
o-Xylene	ug/kg	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg	--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg	--	--	--	--	--	--	--
Isopropylbenzene	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-283-SA6-SB-4.5	SL-283-SA6-SB-9.0-10.0	SL-283-SA6-SB-9.0-10.0S	SL-283-SA6-SB-9.5	SL-283-SA6-SB-14.0-15.0	SL-283-SA6-SB-14.0-15.0S	SL-283-SA6-SB-14.5
Sample Date		11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011
Sample Type		N	N	Split	N	N	Split	N
SDG		11L003	DE290	11L003	11L003	DE290	11L003	11L003
Start Depth		4.5	9	9	9.5	14	14	14.5
End Depth		4.5	10	10	9.5	15	15	14.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	0.99 U	--	--	1.0 U	--	--	1.1 U
GRO (C5-C12)	mg/kg	--	1 U	--	--	1.0 U	--	--
EFH (C12-C14)	mg/kg	--	--	1.1 U	--	--	1.1 U	--
EFH (C12-C14)	mg/kg	--	1.8 U	--	--	1.4 U	--	--
EFH (C15-C20)	mg/kg	--	--	1.1 U	--	--	1.1 U	--
EFH (C15-C20)	mg/kg	--	1.8 U	--	--	0.56 J Z	--	--
EFH (C21-C30)	mg/kg	--	--	1.7	--	--	1.1 U	--
EFH (C21-C30)	mg/kg	--	2.6	--	--	1.9	--	--
EFH (C30-C40)	mg/kg	--	--	0.63 J Z	--	--	1.1 U	--
EFH (C30-C40)	mg/kg	--	6.9	--	--	4.9	--	--
EFH (C8-C11)	mg/kg	--	--	0.98 J Z	--	--	0.70 J Z	--
EFH (C8-C11)	mg/kg	--	1.8 U	--	--	1.4 U	--	--
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

		Sample Name	SL-283-SA6-SB-4.5	SL-283-SA6-SB-9.0-10.0	SL-283-SA6-SB-9.0-10.0S	SL-283-SA6-SB-9.5	SL-283-SA6-SB-14.0-15.0	SL-283-SA6-SB-14.0-15.0S	SL-283-SA6-SB-14.5
		Sample Date	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011
		Sample Type	N	N	Split	N	N	Split	N
		SDG	11L003	DE290	11L003	11L003	DE290	11L003	11L003
		Start Depth	4.5	9	9	9.5	14	14	14.5
		End Depth	4.5	10	10	9.5	15	15	14.5
Acetone	ug/kg		--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--
Benzene	ug/kg		--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg		--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--
Dibromomethane	ug/kg		--	--	--	--	--	--	--
Bromochloromethane	ug/kg		--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--
Methylene chloride	ug/kg		--	--	--	--	--	--	--
Bromoform	ug/kg		--	--	--	--	--	--	--
Bromodichloromethane	ug/kg		--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg		--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg		--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg		--	--	--	--	--	--	--
Freon 113a	ug/kg		--	--	--	--	--	--	--
Freon 113	ug/kg		--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--
2-Butanone	ug/kg		--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--
Trichloroethene	ug/kg		--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg		--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--
o-Xylene	ug/kg		--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg		--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg		--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg		--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg		--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg		--	--	--	--	--	--	--
Isopropylbenzene	ug/kg		--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-283-SA6-SB-18.0-19.0	SL-283-SA6-SB-18.0-19.0S	SL-283-SA6-SB-18.5	SL-284-SA6-SS-0.0-0.5	SL-284-SA6-SS-0.0-0.5S	SL-284-SA6-SB-4.0-5.0	SL-284-SA6-SB-4.0-5.0S
Sample Date		11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011
Sample Type		N	Split	N	N	Split	N	Split
SDG		DE290	11L003	11L003	DE290	11L003	DE290	11L003
Start Depth		18	18	18.5	0	0	4	4
End Depth		19	19	18.5	0.5	0.5	5	5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	1.1 U	1.0 U	--	--	--	--
GRO (C5-C12)	mg/kg	0.3 J Z	--	--	--	--	1 U	--
EFH (C12-C14)	mg/kg	--	1.1 U	40.0 U B	--	11 U	--	1.1 U
EFH (C12-C14)	mg/kg	1.7 U	--	3.33 U B	66 U	4.45 U B	1.5 U	--
EFH (C15-C20)	mg/kg	--	1.1 U	--	--	11 U	--	1.1 U
EFH (C15-C20)	mg/kg	1.7 U	--	--	66 U	--	1.5 U	--
EFH (C21-C30)	mg/kg	--	1.1 U	--	--	38	--	0.60 J Z
EFH (C21-C30)	mg/kg	1.3 J Z	--	--	180 J FD	--	0.91 J Z	--
EFH (C30-C40)	mg/kg	--	1.1 U	--	--	45	--	1.1 U
EFH (C30-C40)	mg/kg	3.0	--	--	800 J FD	--	3.5	--
EFH (C8-C11)	mg/kg	--	0.63 J Z	--	--	11 U	--	1.1 U
EFH (C8-C11)	mg/kg	1.7 U	--	--	66 U	--	1.5 U	--
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

		Sample Name	SL-283-SA6-SB-18.0-19.0	SL-283-SA6-SB-18.0-19.0S	SL-283-SA6-SB-18.5	SL-284-SA6-SS-0.0-0.5	SL-284-SA6-SS-0.0-0.5S	SL-284-SA6-SB-4.0-5.0	SL-284-SA6-SB-4.0-5.0S
		Sample Date	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011
		Sample Type	N	Split	N	N	Split	N	Split
		SDG	DE290	11L003	11L003	DE290	11L003	DE290	11L003
		Start Depth	18	18	18.5	0	0	4	4
		End Depth	19	19	18.5	0.5	0.5	5	5
Acetone	ug/kg		--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--
Benzene	ug/kg		--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg		--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--
Dibromomethane	ug/kg		--	--	--	--	--	--	--
Bromochloromethane	ug/kg		--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--
Methylene chloride	ug/kg		--	--	--	--	--	--	--
Bromoform	ug/kg		--	--	--	--	--	--	--
Bromodichloromethane	ug/kg		--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg		--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg		--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg		--	--	--	--	--	--	--
Freon 113a	ug/kg		--	--	--	--	--	--	--
Freon 113	ug/kg		--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--
2-Butanone	ug/kg		--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--
Trichloroethene	ug/kg		--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg		--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--
o-Xylene	ug/kg		--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg		--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg		--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg		--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg		--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg		--	--	--	--	--	--	--
Isopropylbenzene	ug/kg		--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-284-SA6-SB-4.5	SL-284-SA6-SB-9.0-10.0	SL-284-SA6-SB-9.0-10.0S	SL-284-SA6-SB-9.5	SL-284-SA6-SB-14.0-15.0	SL-284-SA6-SB-14.0-15.0S	SL-284-SA6-SB-14.5
Sample Date		11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011
Sample Type		N	N	Split	N	N	Split	N
SDG		11L003	DE290	11L003	11L003	DE290	11L003	11L003
Start Depth		4.5	9	9	9.5	14	14	14.5
End Depth		4.5	10	10	9.5	15	15	14.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	1.1 U	--	--	1.1 U	--	--	1.1 U
GRO (C5-C12)	mg/kg	--	0.6 J Z	--	--	1 U	--	--
EFH (C12-C14)	mg/kg	--	--	1.1 U	--	--	1.1 U	--
EFH (C12-C14)	mg/kg	--	1.5 U	--	--	1.6 U	--	--
EFH (C15-C20)	mg/kg	--	--	1.1 U	--	--	1.1 U	--
EFH (C15-C20)	mg/kg	--	1.5 U	--	--	1.6 U	--	--
EFH (C21-C30)	mg/kg	--	--	2.4	--	--	1.1 U	--
EFH (C21-C30)	mg/kg	--	3.4	--	--	1.6 U	--	--
EFH (C30-C40)	mg/kg	--	--	1.6	--	--	1.1 U	--
EFH (C30-C40)	mg/kg	--	5.3	--	--	0.83 J Z	--	--
EFH (C8-C11)	mg/kg	--	--	0.59 J Z	--	--	0.89 J Z	--
EFH (C8-C11)	mg/kg	--	1.5 U	--	--	1.6 U	--	--
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	5.17 U B	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A13
Volatiles-Validated Data
HSA-6

		Sample Name	SL-284-SA6-SB-4.5	SL-284-SA6-SB-9.0-10.0	SL-284-SA6-SB-9.0-10.0S	SL-284-SA6-SB-9.5	SL-284-SA6-SB-14.0-15.0	SL-284-SA6-SB-14.0-15.0S	SL-284-SA6-SB-14.5
		Sample Date	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011
		Sample Type	N	N	Split	N	N	Split	N
		SDG	11L003	DE290	11L003	11L003	DE290	11L003	11L003
		Start Depth	4.5	9	9	9.5	14	14	14.5
		End Depth	4.5	10	10	9.5	15	15	14.5
Acetone	ug/kg		--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--
Benzene	ug/kg		--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg		--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--
Dibromomethane	ug/kg		--	--	--	--	--	--	--
Bromochloromethane	ug/kg		--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--
Methylene chloride	ug/kg		--	--	--	--	--	--	--
Bromoform	ug/kg		--	--	--	--	--	--	--
Bromodichloromethane	ug/kg		--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg		--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg		--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg		--	--	--	--	--	--	--
Freon 113a	ug/kg		--	--	--	--	--	--	--
Freon 113	ug/kg		--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--
2-Butanone	ug/kg		--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--
Trichloroethene	ug/kg		--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg		--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--
o-Xylene	ug/kg		--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg		--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg		--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg		--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg		--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg		--	--	--	--	--	--	--
Isopropylbenzene	ug/kg		--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-284-SA6-SB-15.5-16.5	SL-284-SA6-SB-15.5-16.5S	SL-284-SA6-SB-16.0	SL-285-SA6-SS-0.0-0.5	SL-285-SA6-SS-0.0-0.5S	SL-285-SA6-SB-4.0-5.0	SL-285-SA6-SB-4.0-5.0S
Sample Date		11/30/2011	11/30/2011	11/30/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011
Sample Type		N	Split	N	N	Split	N	Split
SDG		DE290	11L003	11L003	DE290	11L003	DE290	11L003
Start Depth		15.5	15.5	16	0	0	4	4
End Depth		16.5	16.5	16	0.5	0.5	5	5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	0.99 U	--	--	--	--
GRO (C5-C12)	mg/kg	0.9 U	--	--	--	--	0.9 U	--
EFH (C12-C14)	mg/kg	--	1.1 U	23.3 U B	--	11 U	--	1.0 U
EFH (C12-C14)	mg/kg	1.7 U	--	3.4 U B	13 U	--	1.6 U	--
EFH (C15-C20)	mg/kg	--	1.1 U	--	--	11 U	--	1.0 U
EFH (C15-C20)	mg/kg	1.7 U	--	--	13 U	--	1.6 U	--
EFH (C21-C30)	mg/kg	--	0.64 J Z	--	--	25	--	1.0 U
EFH (C21-C30)	mg/kg	3.0	--	--	53	--	0.84 J Z	--
EFH (C30-C40)	mg/kg	--	1.1 U	--	--	31	--	1.0 U
EFH (C30-C40)	mg/kg	12	--	--	170	--	1.6 U	--
EFH (C8-C11)	mg/kg	--	0.78 J Z	--	--	11 U	--	0.78 J Z
EFH (C8-C11)	mg/kg	1.7 U	--	--	13 U	--	1.6 U	--
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	3.9 U	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	3.9 U	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	3.9 U	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	3.9 U	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	3.9 U	--
Isopropyltoluene	ug/kg	--	--	--	--	--	3.9 U	--
Ethylbenzene	ug/kg	--	--	--	--	--	3.9 U	--
Styrene	ug/kg	--	--	--	--	--	3.9 U	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	3.9 U	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	3.9 U	--
N-Propylbenzene	ug/kg	--	--	--	--	--	3.9 U	--
N-Butylbenzene	ug/kg	--	--	--	--	--	3.9 U	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	3.9 U	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	3.9 U	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	3.9 U	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	7.7 U	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	3.9 U	--
Bromobenzene	ug/kg	--	--	--	--	--	3.9 U	--
Toluene	ug/kg	--	--	--	--	--	3.9 U B	--
Chlorobenzene	ug/kg	--	--	--	--	--	3.9 U	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	3.9 U	--
1,4-Dioxane	ug/kg	--	--	--	--	--	15 U	--
Dibromochloromethane	ug/kg	--	--	--	--	--	3.9 U	--
Tetrachloroethene	ug/kg	--	--	--	--	--	3.9 U	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	3.9 U	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	3.9 U	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	3.9 U	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	3.9 U	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	3.9 U	--
m,p-Xylene	ug/kg	--	--	--	--	--	3.9 U	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	3.9 U	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	3.9 U	--
2-Hexanone	ug/kg	--	--	--	--	--	7.7 U	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	3.9 U	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	3.9 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

		Sample Name	SL-284-SA6-SB-15.5-16.5	SL-284-SA6-SB-15.5-16.5S	SL-284-SA6-SB-16.0	SL-285-SA6-SS-0.0-0.5	SL-285-SA6-SS-0.0-0.5S	SL-285-SA6-SB-4.0-5.0	SL-285-SA6-SB-4.0-5.0S
		Sample Date	11/30/2011	11/30/2011	11/30/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011
		Sample Type	N	Split	N	N	Split	N	Split
		SDG	DE290	11L003	11L003	DE290	11L003	DE290	11L003
		Start Depth	15.5	15.5	16	0	0	4	4
		End Depth	16.5	16.5	16	0.5	0.5	5	5
Acetone	ug/kg		--	--	--	--	--	7.7 U	--
Chloroform	ug/kg		--	--	--	--	--	3.9 U B	--
Benzene	ug/kg		--	--	--	--	--	3.9 U	--
1,1,1-Trichloroethane	ug/kg		--	--	--	--	--	3.9 U	--
Bromomethane	ug/kg		--	--	--	--	--	3.9 U	--
Chloromethane	ug/kg		--	--	--	--	--	3.9 U	--
Dibromomethane	ug/kg		--	--	--	--	--	3.9 U	--
Bromochloromethane	ug/kg		--	--	--	--	--	3.9 U	--
Chloroethane	ug/kg		--	--	--	--	--	3.9 U	--
Vinyl Chloride	ug/kg		--	--	--	--	--	3.9 U	--
Methylene chloride	ug/kg		--	--	--	--	--	3.9 U B	--
Bromoform	ug/kg		--	--	--	--	--	3.9 U	--
Bromodichloromethane	ug/kg		--	--	--	--	--	3.9 U	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	3.9 U	--
1,1-Dichloroethene	ug/kg		--	--	--	--	--	3.9 U	--
Trichlorofluoromethane	ug/kg		--	--	--	--	--	3.9 U	--
Dichlorodifluoromethane	ug/kg		--	--	--	--	--	3.9 U	--
Freon 113a	ug/kg		--	--	--	--	--	4.8 U	--
Freon 113	ug/kg		--	--	--	--	--	3.9 U	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	3.9 U	--
2-Butanone	ug/kg		--	--	--	--	--	7.7 U	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	3.9 U	--
Trichloroethene	ug/kg		--	--	--	--	--	3.9 U	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	3.9 U	--
Chlorotrifluoroethene	ug/kg		--	--	--	--	--	4.8 U	--
1,2,3-Trichlorobenzene	ug/kg		--	--	--	--	--	3.9 U	--
o-Xylene	ug/kg		--	--	--	--	--	3.9 U	--
2-Chlorotoluene	ug/kg		--	--	--	--	--	3.9 U	--
1,2,4-Trimethylbenzene	ug/kg		--	--	--	--	--	3.9 U	--
1,2-Dibromo-3-chloropropane	ug/kg		--	--	--	--	--	3.9 U	--
1,2,3-Trichloropropane	ug/kg		--	--	--	--	--	3.9 U	--
tert-Butylbenzene	ug/kg		--	--	--	--	--	3.9 U	--
Isopropylbenzene	ug/kg		--	--	--	--	--	3.9 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-285-SA6-SB-4.5	SL-285-SA6-SB-6.0-7.0	SL-285-SA6-SB-6.0-7.0S	SL-285-SA6-SB-7.5	SL-286-SA6-SS-0.0-0.5	SL-289-SA6-SS-0.0-0.5	SL-289-SA6-SB-3.5-4.5
Sample Date		11/29/2011	11/29/2011	11/29/2011	11/29/2011	07/14/2011	07/11/2011	07/25/2011
Sample Type		N	N	Split	N	N	N	N
SDG		11L003	DE290	11L003	11L003	DE201	DE198	DE208
Start Depth		4.5	6	6	7.5	0	0	3.5
End Depth		4.5	7	7	7.5	0.5	0.5	4.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	0.99 U	--	--	1.0 U	--	--	--
GRO (C5-C12)	mg/kg	--	44 U	--	--	--	--	1.0 U
EFH (C12-C14)	mg/kg	--	33.9 U B	1.1 U	--	--	34.6 U B	--
EFH (C12-C14)	mg/kg	--	5.84 U B	--	--	1.2 U	1.2 U	1.3 U
EFH (C15-C20)	mg/kg	--	--	1.3	--	--	--	--
EFH (C15-C20)	mg/kg	--	36 U	--	--	1.8 J Q	0.96 J Z	1.3 U
EFH (C21-C30)	mg/kg	--	--	26	--	--	--	--
EFH (C21-C30)	mg/kg	--	93	--	--	11 J FD	6.8	1.3 U
EFH (C30-C40)	mg/kg	--	--	17	--	--	--	--
EFH (C30-C40)	mg/kg	--	150	--	--	31 J FD	13	1.3 U
EFH (C8-C11)	mg/kg	--	--	2.6	--	--	--	--
EFH (C8-C11)	mg/kg	--	36 U	--	--	0.44 J FD, Z	1.2 U	1.3 U
1,4-Dichlorobenzene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
1,2,4-Trichlorobenzene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
1,3-Dichlorobenzene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
Hexachlorobutadiene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
1,2-Dichlorobenzene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
Isopropyltoluene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
Ethylbenzene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
Styrene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
cis-1,3-Dichloropropene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
trans-1,3-Dichloropropene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
N-Propylbenzene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
N-Butylbenzene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
4-Chlorotoluene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
1,2-Dibromoethane	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
1,2-Dichloroethane	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
4-Methyl-2-Pentanone	ug/kg	9.7 U	9.0 U	--	9.9 U	--	--	--
1,3,5-Trimethylbenzene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
Bromobenzene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
Toluene	ug/kg	4.9 U	4.5 U B	--	4.9 U	--	--	--
Chlorobenzene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
1,4-Dioxane	ug/kg	9.7 U	16 U	--	10 U	--	--	--
Dibromochloromethane	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
Tetrachloroethene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
sec-Butylbenzene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
1,3-Dichloropropane	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
cis-1,2-Dichloroethene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
trans-1,2-Dichloroethene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
Methyl tert-Butyl Ether	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
m,p-Xylene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
Carbon tetrachloride	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
1,1-Dichloropropene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
2-Hexanone	ug/kg	9.7 U	9.0 U	--	9.9 U	--	--	--
2,2-Dichloropropane	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A13
Volatiles-Validated Data
HSA-6

Sample Name		SL-285-SA6-SB-4.5	SL-285-SA6-SB-6.0-7.0	SL-285-SA6-SB-6.0-7.0S	SL-285-SA6-SB-7.5	SL-286-SA6-SS-0.0-0.5	SL-289-SA6-SS-0.0-0.5	SL-289-SA6-SB-3.5-4.5
Sample Date		11/29/2011	11/29/2011	11/29/2011	11/29/2011	07/14/2011	07/11/2011	07/25/2011
Sample Type		N	N	Split	N	N	N	N
SDG		11L003	DE290	11L003	11L003	DE201	DE198	DE208
Start Depth		4.5	6	6	7.5	0	0	3.5
End Depth		4.5	7	7	7.5	0.5	0.5	4.5
Acetone	ug/kg	9.7 U	9.0 U	--	17	--	--	--
Chloroform	ug/kg	4.9 U	4.5 U B	--	4.9 U	--	--	--
Benzene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
1,1,1-Trichloroethane	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
Bromomethane	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
Chloromethane	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
Dibromomethane	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
Bromochloromethane	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
Chloroethane	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
Vinyl Chloride	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
Methylene chloride	ug/kg	4.9 U	4.5 U B	--	4.9 U	--	--	--
Bromoform	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
Bromodichloromethane	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
1,1-Dichloroethane	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
1,1-Dichloroethene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
Trichlorofluoromethane	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
Dichlorodifluoromethane	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
Freon 113a	ug/kg	4.9 U	5.6 U	--	4.9 U	--	--	--
Freon 113	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
1,2-Dichloropropane	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
2-Butanone	ug/kg	9.7 U	9.0 U	--	5.1 J Z	--	--	--
1,1,2-Trichloroethane	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
Trichloroethene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
Chlorotrifluoroethene	ug/kg	4.9 U	5.6 U	--	4.9 U	--	--	--
1,2,3-Trichlorobenzene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
o-Xylene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
2-Chlorotoluene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
1,2,4-Trimethylbenzene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
1,2,3-Trichloropropane	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
tert-Butylbenzene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--
Isopropylbenzene	ug/kg	4.9 U	4.5 U	--	4.9 U	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-290-SA6-SS-0.0-0.5	SL-291-SA6-SS-0.0-0.5	SL-291-SA6-SB-2.0-3.0	SL-292-SA6-SS-0.0-0.5	SL-293-SA6-SS-0.0-0.5	SL-297-SA6-SS-0.0-0.5	SL-298-SA6-SS-0.0-0.5
Sample Date		07/12/2011	07/11/2011	08/26/2011	07/11/2011	07/18/2011	07/11/2011	07/11/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE198	DE198	DE233	DE197	DE202	DE197	DE197
Start Depth		0	0	2	0	0	0	0
End Depth		0.5	0.5	3	0.5	0.5	0.5	0.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	--	--	0.3 J Z	--	--	--	--
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	1.2 U	12 U	61 U	61 U	1.2 U	120 U	24 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	1.5	9.8 J Z	61 U	61 U	4.3 J S	42 J Z	24 U
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	9.4	120	190	140	12 J S	450	86
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	34	350	770	350	25 J S	830	250
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	1.2 U	12 U	61 U	61 U	1.1 J S, Z	120 U	24 U
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-290-SA6-SS-0.0-0.5	SL-291-SA6-SS-0.0-0.5	SL-291-SA6-SB-2.0-3.0	SL-292-SA6-SS-0.0-0.5	SL-293-SA6-SS-0.0-0.5	SL-297-SA6-SS-0.0-0.5	SL-298-SA6-SS-0.0-0.5
Sample Date		07/12/2011	07/11/2011	08/26/2011	07/11/2011	07/18/2011	07/11/2011	07/11/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE198	DE198	DE233	DE197	DE202	DE197	DE197
Start Depth		0	0	2	0	0	0	0
End Depth		0.5	0.5	3	0.5	0.5	0.5	0.5
Acetone	ug/kg	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--
Benzene	ug/kg	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Bromomethane	ug/kg	--	--	--	--	--	--	--
Chloromethane	ug/kg	--	--	--	--	--	--	--
Dibromomethane	ug/kg	--	--	--	--	--	--	--
Bromochloromethane	ug/kg	--	--	--	--	--	--	--
Chloroethane	ug/kg	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg	--	--	--	--	--	--	--
Methylene chloride	ug/kg	--	--	--	--	--	--	--
Bromoform	ug/kg	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg	--	--	--	--	--	--	--
Freon 113a	ug/kg	--	--	--	--	--	--	--
Freon 113	ug/kg	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
2-Butanone	ug/kg	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
o-Xylene	ug/kg	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg	--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg	--	--	--	--	--	--	--
Isopropylbenzene	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-300-SA6-SS-0.0-0.5	SL-302-SA6-SS-0.0-0.5	SL-303-SA6-SS-0.0-0.5	SL-304-SA6-SS-0.0-0.5	SL-305-SA6-SS-0.0-0.5	SL-305-SA6-SB-2.0-3.0	SL-306-SA6-SS-0.0-0.5
Sample Date		07/12/2011	07/14/2011	07/14/2011	07/14/2011	08/30/2011	08/30/2011	08/30/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE199	DE201	DE201	DE201	DE235	DE235	DE235
Start Depth		0	0	0	0	0	2	0
End Depth		0.5	0.5	0.5	0.5	0.5	3	0.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	--	--	--	--	--	1.3 U	--
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	6.2 U	12 U	250 U	25 U	640 U	1.3 U	12 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	3.6 J Z	12	250 U	25 U	640 U	1.3 U	12 U
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	35	160	1100	140	1200	2.3	42
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	140	520	3800	490	5100	13	110
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	6.2 U	12 U	250 U	25 U	640 U	1.3 U	12 U
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

	Sample Name	SL-300-SA6-SS-0.0-0.5	SL-302-SA6-SS-0.0-0.5	SL-303-SA6-SS-0.0-0.5	SL-304-SA6-SS-0.0-0.5	SL-305-SA6-SS-0.0-0.5	SL-305-SA6-SB-2.0-3.0	SL-306-SA6-SS-0.0-0.5
	Sample Date	07/12/2011	07/14/2011	07/14/2011	07/14/2011	08/30/2011	08/30/2011	08/30/2011
	Sample Type	N	N	N	N	N	N	N
	SDG	DE199	DE201	DE201	DE201	DE235	DE235	DE235
	Start Depth	0	0	0	0	0	2	0
	End Depth	0.5	0.5	0.5	0.5	0.5	3	0.5
Acetone	ug/kg	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--
Benzene	ug/kg	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Bromomethane	ug/kg	--	--	--	--	--	--	--
Chloromethane	ug/kg	--	--	--	--	--	--	--
Dibromomethane	ug/kg	--	--	--	--	--	--	--
Bromochloromethane	ug/kg	--	--	--	--	--	--	--
Chloroethane	ug/kg	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg	--	--	--	--	--	--	--
Methylene chloride	ug/kg	--	--	--	--	--	--	--
Bromoform	ug/kg	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg	--	--	--	--	--	--	--
Freon 113a	ug/kg	--	--	--	--	--	--	--
Freon 113	ug/kg	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
2-Butanone	ug/kg	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
o-Xylene	ug/kg	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg	--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg	--	--	--	--	--	--	--
Isopropylbenzene	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-311-SA6-SS-0.0-0.5	SL-311-SA6-SB-2.0-3.0	SL-315-SA6-SS-0.0-0.5	SL-315-SA6-SB-3.0-4.0	SL-317-SA6-SS-0.0-0.5	SL-319-SA6-SS-0.0-0.5	SL-319-SA6-SB-4.0-5.0
Sample Date		07/26/2011	09/07/2011	07/21/2011	08/19/2011	07/26/2011	07/26/2011	10/05/2011
Sample Type		N	N	N	N	N	N	N
SDG		DE209	DE239	DE206	DE228	DE209	DE209	DE262
Start Depth		0	2	0	3	0	0	4
End Depth		0.5	3	0.5	4	0.5	0.5	5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
GRO (C5-C12)	mg/kg	--	1.0 U	--	1 U	--	--	1.2 U
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	61 U	1.3 U	6.1 U	1.3 U	1.2 U	2.4 U	1.3 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	95	1.5	3.4 J Z	1.3 U	0.73 J Z	2.4 U	1.3 U
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	1200	13	33	1.3 U	7.5	12	1.9 J Q
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	1700	14	130	1.7	24	48	5.9 J FD, Q
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	61 U	1.3 U	6.1 U	1.3 U	1.2 U	2.4 U	1.3 U
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--
N-Propylbenzene	ug/kg	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
Bromobenzene	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

	Sample Name	SL-311-SA6-SS-0.0-0.5	SL-311-SA6-SB-2.0-3.0	SL-315-SA6-SS-0.0-0.5	SL-315-SA6-SB-3.0-4.0	SL-317-SA6-SS-0.0-0.5	SL-319-SA6-SS-0.0-0.5	SL-319-SA6-SB-4.0-5.0
	Sample Date	07/26/2011	09/07/2011	07/21/2011	08/19/2011	07/26/2011	07/26/2011	10/05/2011
	Sample Type	N	N	N	N	N	N	N
	SDG	DE209	DE239	DE206	DE228	DE209	DE209	DE262
	Start Depth	0	2	0	3	0	0	4
	End Depth	0.5	3	0.5	4	0.5	0.5	5
Acetone	ug/kg	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--
Benzene	ug/kg	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Bromomethane	ug/kg	--	--	--	--	--	--	--
Chloromethane	ug/kg	--	--	--	--	--	--	--
Dibromomethane	ug/kg	--	--	--	--	--	--	--
Bromochloromethane	ug/kg	--	--	--	--	--	--	--
Chloroethane	ug/kg	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg	--	--	--	--	--	--	--
Methylene chloride	ug/kg	--	--	--	--	--	--	--
Bromoform	ug/kg	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg	--	--	--	--	--	--	--
Freon 113a	ug/kg	--	--	--	--	--	--	--
Freon 113	ug/kg	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--
2-Butanone	ug/kg	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
o-Xylene	ug/kg	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg	--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg	--	--	--	--	--	--	--
Isopropylbenzene	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-321-SA6-SS-0.0-0.5	SL-321-SA6-SB-2.0-3.0	SL-322-SA6-SS-0.0-0.5
Sample Date		07/20/2011	08/16/2011	07/20/2011
Sample Type		N	N	N
SDG		DE204	DE225	DE204
Start Depth		0	2	0
End Depth		0.5	3	0.5
Chemical Name	Unit			
GRO (C5-C12)	mg/kg	--	--	--
GRO (C5-C12)	mg/kg	--	1.0 U	--
EFH (C12-C14)	mg/kg	--	--	--
EFH (C12-C14)	mg/kg	1.2 U	1.2 U	1.2 U
EFH (C15-C20)	mg/kg	--	--	--
EFH (C15-C20)	mg/kg	1.2	1.4	0.57 J Z
EFH (C21-C30)	mg/kg	--	--	--
EFH (C21-C30)	mg/kg	9.9	6.5	4.0
EFH (C30-C40)	mg/kg	--	--	--
EFH (C30-C40)	mg/kg	34	13	9.1
EFH (C8-C11)	mg/kg	--	--	--
EFH (C8-C11)	mg/kg	0.46 J Z	1.2 U	1.2 U
1,4-Dichlorobenzene	ug/kg	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--
Isopropyltoluene	ug/kg	--	--	--
Ethylbenzene	ug/kg	--	--	--
Styrene	ug/kg	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--
N-Propylbenzene	ug/kg	--	--	--
N-Butylbenzene	ug/kg	--	--	--
4-Chlorotoluene	ug/kg	--	--	--
1,2-Dibromoethane	ug/kg	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--
4-Methyl-2-Pentanone	ug/kg	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--
Bromobenzene	ug/kg	--	--	--
Toluene	ug/kg	--	--	--
Chlorobenzene	ug/kg	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--
1,4-Dioxane	ug/kg	--	--	--
Dibromochloromethane	ug/kg	--	--	--
Tetrachloroethene	ug/kg	--	--	--
sec-Butylbenzene	ug/kg	--	--	--
1,3-Dichloropropane	ug/kg	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--
trans-1,2-Dichloroethene	ug/kg	--	--	--
Methyl tert-Butyl Ether	ug/kg	--	--	--
m,p-Xylene	ug/kg	--	--	--
Carbon tetrachloride	ug/kg	--	--	--
1,1-Dichloropropene	ug/kg	--	--	--
2-Hexanone	ug/kg	--	--	--
2,2-Dichloropropane	ug/kg	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A13
Volatiles-Validated Data
HSA-6

Sample Name		SL-321-SA6-SS-0.0-0.5	SL-321-SA6-SB-2.0-3.0	SL-322-SA6-SS-0.0-0.5
Sample Date		07/20/2011	08/16/2011	07/20/2011
Sample Type		N	N	N
SDG		DE204	DE225	DE204
Start Depth		0	2	0
End Depth		0.5	3	0.5
Acetone	ug/kg	--	--	--
Chloroform	ug/kg	--	--	--
Benzene	ug/kg	--	--	--
1,1,1-Trichloroethane	ug/kg	--	--	--
Bromomethane	ug/kg	--	--	--
Chloromethane	ug/kg	--	--	--
Dibromomethane	ug/kg	--	--	--
Bromochloromethane	ug/kg	--	--	--
Chloroethane	ug/kg	--	--	--
Vinyl Chloride	ug/kg	--	--	--
Methylene chloride	ug/kg	--	--	--
Bromoform	ug/kg	--	--	--
Bromodichloromethane	ug/kg	--	--	--
1,1-Dichloroethane	ug/kg	--	--	--
1,1-Dichloroethene	ug/kg	--	--	--
Trichlorofluoromethane	ug/kg	--	--	--
Dichlorodifluoromethane	ug/kg	--	--	--
Freon 113a	ug/kg	--	--	--
Freon 113	ug/kg	--	--	--
1,2-Dichloropropane	ug/kg	--	--	--
2-Butanone	ug/kg	--	--	--
1,1,2-Trichloroethane	ug/kg	--	--	--
Trichloroethene	ug/kg	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--
Chlorotrifluoroethene	ug/kg	--	--	--
1,2,3-Trichlorobenzene	ug/kg	--	--	--
o-Xylene	ug/kg	--	--	--
2-Chlorotoluene	ug/kg	--	--	--
1,2,4-Trimethylbenzene	ug/kg	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg	--	--	--
1,2,3-Trichloropropane	ug/kg	--	--	--
tert-Butylbenzene	ug/kg	--	--	--
Isopropylbenzene	ug/kg	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix B
Laboratory Reports
(On CD)

Appendix B
Laboratory Reports
(On CD)

Lancaster Laboratories

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

Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

October 20, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/27/2011
Group Number: 1268378
SDG: DE253
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-001-SA3-SS-0.0-0.5 Soil	6419488
SL-002-SA3-SS-0.0-0.5 Soil	6419489
SL-002-SA5DS-SS-0.0-0.5 Soil	6419490
SL-001-SA5DS-SS-0.0-0.5 Soil	6419491
SL-001-SA5DS-SS-0.0-0.5 MS Soil	6419492
SL-001-SA5DS-SS-0.0-0.5 MSD Soil	6419493
SL-001-SA5DS-SS-0.0-0.5 DUP Soil	6419494
SL-001-SA5DS-SS-0.0-0.5 RL MS Soil	6419495
SL-001-SA5DS-SS-0.0-0.5 RL LCS Soil	6419496
SL-026-SA5DS-SS-0.0-0.5 Soil	6419497
SL-027-SA5DS-SS-0.0-0.5 Soil	6419498
SL-028-SA5DS-SS-0.0-0.5 Soil	6419499
SL-029-SA5DS-SS-0.0-0.5 Soil	6419500
SL-030-SA5DS-SS-0.0-0.5 Soil	6419501
SL-031-SA5DS-SS-0.0-0.5 Soil	6419502
SL-032-SA5DS-SS-0.0-0.5 Soil	6419503
DUP01-SA5DS-QC-092611 Soil	6419504

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

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

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Analysis Report

1 COPY TO Data Package Group

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

Respectfully Submitted,



Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA3-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA3-SS-0.0-0.5

LLI Sample # SW 6419488
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 07:50

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL001 SDG#: DE253-01

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

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

Sample Description: SL-001-SA3-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA3-SS-0.0-0.5

LLI Sample # SW 6419488
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 07:50

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL001 SDG#: DE253-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170	1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.66	U	0.66	1.6	1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.6	1
10138	Anthracene	120-12-7	0.33	U	0.33	1.6	1
10138	Benzo(a)anthracene	56-55-3	0.66	U	0.66	1.6	1
10138	Benzo(a)pyrene	50-32-8	0.66	U	0.66	1.6	1
10138	Benzo(b)fluoranthene	205-99-2	1.8		0.66	1.6	1
10138	Benzo(g,h,i)perylene	191-24-2	0.66	U	0.66	1.6	1
10138	Benzo(k)fluoranthene	207-08-9	0.66	U	0.66	1.6	1
10138	Butylbenzylphthalate	85-68-7	5.9	U	5.9	18	1
10138	Di-n-butylphthalate	84-74-2	5.9	U	5.9	18	1
10138	Chrysene	218-01-9	0.97	J	0.33	1.6	1
10138	Dibenz(a,h)anthracene	53-70-3	0.66	U	0.66	1.6	1
10138	Diethylphthalate	84-66-2	5.9	U	5.9	18	1
10138	Dimethylphthalate	131-11-3	5.9	U	5.9	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	5.9	J	5.9	18	1
10138	Fluoranthene	206-44-0	1.2	J	0.66	1.6	1
10138	Fluorene	86-73-7	0.66	U	0.66	1.6	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.66	U	0.66	1.6	1
10138	1-Methylnaphthalene	90-12-0	0.66	U	0.66	1.6	1
10138	2-Methylnaphthalene	91-57-6	0.66	U	0.66	1.6	1
10138	Naphthalene	91-20-3	0.66	U	0.66	1.6	1
10138	N-Nitrosodimethylamine	62-75-9	0.66	U	0.66	1.6	1
10138	Di-n-octylphthalate	117-84-0	5.9	U	5.9	18	1
10138	Phenanthrene	85-01-8	0.66	U	0.66	1.6	1
10138	Pyrene	129-00-0	1.1	J	0.66	1.6	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	4.7	U	4.7	4.7	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0	1
10401	2,4-DB	94-82-6	23	U	23	23	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.6	J	0.80	1.7	1
10401	MCPA	94-74-6	76	U	76	250	1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250	1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17	1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: SL-001-SA3-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA3-SS-0.0-0.5

LLI Sample # SW 6419488
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 07:50

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL001 SDG#: DE253-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17	1
01363	Chlordane	57-74-9	2.4	J	0.80	3.4	1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34	1
01363	p,p-DDE	72-55-9	0.70		0.066	0.34	1
01363	p,p-DDT	50-29-3	0.91		0.066	0.34	1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17	1
01363	Dieldrin	60-57-1	0.066	U	0.066	0.34	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.066	U	0.066	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34	1
01363	Endrin	72-20-8	0.066	U	0.066	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.11	U	0.11	0.34	1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34	1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.073	U	0.073	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.12	U	0.12	0.34	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	3.0	J	1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	0.53	J	0.33	1.7	1
10225	PCB-1260	11096-82-5	1.3	J	0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,700		5.93	19.6	1
07914	Boron	7440-42-8	5.94		0.353	4.90	1
01650	Calcium	7440-70-2	2,100		2.45	19.6	1
01654	Iron	7439-89-6	18,200		2.56	19.6	1
01656	Lithium	7439-93-2	24.6		0.61	2.0	1
01657	Magnesium	7439-95-4	3,360		0.431	9.80	1
06958	Manganese	7439-96-5	284		0.0353	0.490	1

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

Sample Description: SL-001-SA3-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA3-SS-0.0-0.5

LLI Sample # SW 6419488
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 07:50

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL001 SDG#: DE253-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	373		0.343	9.80	1
01662	Potassium	7440-09-7	4,040		11.1	49.0	1
01667	Sodium	7440-23-5	87.8	J	5.83	98.0	1
07968	Strontium	7440-24-6	18.8		0.0245	0.490	1
06969	Tin	7440-31-5	3.17	J	0.314	9.80	1
06970	Titanium	7440-32-6	1,120		0.0696	0.980	1
10146	Zirconium	7440-67-7	2.95	J	0.451	4.90	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.122	J	0.0725	0.196	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.15		0.0784	0.392	2
06126	Barium	7440-39-3	84.7		0.104	0.392	2
06127	Beryllium	7440-41-7	0.458		0.0157	0.0980	2
06128	Cadmium	7440-43-9	0.170		0.0431	0.0980	2
06131	Chromium	7440-47-3	12.0		0.118	0.392	2
06132	Cobalt	7440-48-4	3.80		0.0196	0.0980	2
06133	Copper	7440-50-8	6.59		0.0784	0.392	2
06135	Lead	7439-92-1	15.0		0.0100	0.196	2
06138	Molybdenum	7439-98-7	0.473		0.0490	0.0980	2
06139	Nickel	7440-02-0	8.35		0.0980	0.392	2
06141	Selenium	7782-49-2	0.145	J	0.0569	0.392	2
06142	Silver	7440-22-4	0.0759	J	0.0139	0.0980	2
06145	Thallium	7440-28-0	0.251		0.0294	0.0980	2
06148	Vanadium	7440-62-2	24.5		0.0216	0.0980	2
06149	Zinc	7440-66-6	86.9		0.549	2.94	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069	U	0.0069	0.0987	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.0	U	9.0	30.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.16		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50	1

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

Sample Description: SL-001-SA3-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA3-SS-0.0-0.5

LLI Sample # SW 6419488
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 07:50

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL001 SDG#: DE253-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11277SLC026	10/06/2011 12:07	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLG026	10/10/2011 07:23	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLG026	10/04/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11277SLC026	10/05/2011 07:35	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112770013A	10/05/2011 23:41	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112780013A	10/10/2011 16:24	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112740010A	10/04/2011 12:42	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112780013A	10/05/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112740010A	10/03/2011 16:15	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112770013A	10/05/2011 02:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112715708001	10/07/2011 07:54	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112715708001	10/07/2011 07:54	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112715708001	10/07/2011 07:54	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112715708001	10/07/2011 07:54	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112715708001	10/07/2011 07:54	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112715708001	10/07/2011 07:54	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112715708001	10/07/2011 07:54	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112715708001	10/07/2011 07:54	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112715708001	10/07/2011 07:54	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112715708001	10/07/2011 07:54	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112715708001	10/07/2011 07:54	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112715708001	10/07/2011 07:54	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112715708001	10/07/2011 07:54	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112715708001	10/07/2011 07:54	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112711026001A	09/29/2011 12:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112711026001A	09/29/2011 12:53	Choon Y Tian	2

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA3-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA3-SS-0.0-0.5

LLI Sample # SW 6419488
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 07:50

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL001 SDG#: DE253-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112711026001D	09/29/2011 12:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112711026001A	09/29/2011 17:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112711026001A	09/29/2011 12:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112711026001A	09/29/2011 12:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112711026001A	09/29/2011 12:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112711026001A	09/29/2011 12:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112711026001A	09/29/2011 12:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112711026001C	09/29/2011 12:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112711026001A	09/29/2011 12:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112711026001B	09/29/2011 12:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112711026001A	09/29/2011 12:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112711026001A	09/29/2011 12:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112711026001A	09/29/2011 12:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112711026001A	09/29/2011 12:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112715711003	09/29/2011 09:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112715708001	09/28/2011 22:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112711026001	09/28/2011 22:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112715711003	09/29/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621201A	10/05/2011 12:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621201A	10/05/2011 16:19	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243201A	10/06/2011 17:51	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621201A	10/03/2011 07:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621201A	10/04/2011 08:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11283039401A	10/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243201A	10/05/2011 13:05	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA3-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA3-SS-0.0-0.5

LLI Sample # SW 6419489
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 08:15

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL002 SDG#: DE253-02

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

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

Sample Description: SL-002-SA3-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA3-SS-0.0-0.5

LLI Sample # SW 6419489
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 08:15

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL002 SDG#: DE253-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170	1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
4,6-dinitro-2-methylphenol

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.66	U	0.66	1.7	1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7	1
10138	Anthracene	120-12-7	0.36	J	0.33	1.7	1
10138	Benzo(a)anthracene	56-55-3	1.1	J	0.66	1.7	1
10138	Benzo(a)pyrene	50-32-8	1.8		0.66	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	5.4		0.66	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	1.0	J	0.66	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.66	1.7	1
10138	Butylbenzylphthalate	85-68-7	5.9	U	5.9	18	1
10138	Di-n-butylphthalate	84-74-2	5.9	U	5.9	18	1
10138	Chrysene	218-01-9	2.9		0.33	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.66	U	0.66	1.7	1
10138	Diethylphthalate	84-66-2	5.9	U	5.9	18	1
10138	Dimethylphthalate	131-11-3	5.9	U	5.9	18	1
10138	Fluoranthene	206-44-0	3.3		0.66	1.7	1
10138	Fluorene	86-73-7	0.66	U	0.66	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	J	0.66	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.66	U	0.66	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.66	J	0.66	1.7	1
10138	Naphthalene	91-20-3	1.2	J	0.66	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.66	U	0.66	1.7	1
10138	Di-n-octylphthalate	117-84-0	5.9	U	5.9	18	1
10138	Phenanthrene	85-01-8	2.1		0.66	1.7	1
10138	Pyrene	129-00-0	2.9		0.66	1.7	1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	2.5	J	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0	1
10401	2,4-DB	94-82-6	3.8	U	3.8	3.8	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7	1
10401	MCPA	94-74-6	76	U	76	250	1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250	1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17	1
10401	2,4,5-TP	93-72-1	0.29		0.075	0.17	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

Sample Description: SL-002-SA3-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA3-SS-0.0-0.5

LLI Sample # SW 6419489
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 08:15

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL002 SDG#: DE253-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17	1
01363	Chlordane	57-74-9	1.7	J	0.80	3.4	1
01363	p,p-DDD	72-54-8	0.32	U	0.32	0.34	1
01363	p,p-DDE	72-55-9	1.5		0.066	0.34	1
01363	p,p-DDT	50-29-3	1.4		0.066	0.34	1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17	1
01363	Dieldrin	60-57-1	0.093	U	0.093	0.34	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.068	U	0.068	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34	1
01363	Endrin	72-20-8	0.066	U	0.066	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.17	U	0.17	0.34	1
01363	Endrin Ketone	53494-70-5	0.095	U	0.095	0.34	1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.063	U	0.063	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34	1
01363	Toxaphene	8001-35-2	4.6	U	4.6	6.6	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	3.6		1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	1.3	J	0.33	1.7	1
10225	PCB-1260	11096-82-5	2.9		0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,300		5.87	19.4	1
07914	Boron	7440-42-8	5.61		0.350	4.85	1
01650	Calcium	7440-70-2	2,460		2.43	19.4	1
01654	Iron	7439-89-6	19,300		2.53	19.4	1

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

Sample Description: SL-002-SA3-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA3-SS-0.0-0.5

LLI Sample # SW 6419489
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 08:15

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL002 SDG#: DE253-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	25.8		0.60	1.9	1
01657	Magnesium	7439-95-4	4,560		0.427	9.71	1
06958	Manganese	7439-96-5	289		0.0350	0.485	1
10145	Phosphorus	7723-14-0	470		0.340	9.71	1
01662	Potassium	7440-09-7	3,470		11.0	48.5	1
01667	Sodium	7440-23-5	74.5	J	5.78	97.1	1
07968	Strontium	7440-24-6	14.1		0.0243	0.485	1
06969	Tin	7440-31-5	2.78	J	0.311	9.71	1
06970	Titanium	7440-32-6	1,130		0.0689	0.971	1
10146	Zirconium	7440-67-7	2.40	J	0.447	4.85	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.141	J	0.0733	0.198	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	2.97		0.0792	0.396	2
06126	Barium	7440-39-3	86.7		0.105	0.396	2
06127	Beryllium	7440-41-7	0.367		0.0158	0.0990	2
06128	Cadmium	7440-43-9	0.217		0.0436	0.0990	2
06131	Chromium	7440-47-3	14.7		0.119	0.396	2
06132	Cobalt	7440-48-4	4.31		0.0198	0.0990	2
06133	Copper	7440-50-8	7.24		0.0792	0.396	2
06135	Lead	7439-92-1	15.5		0.0101	0.198	2
06138	Molybdenum	7439-98-7	0.429		0.0495	0.0990	2
06139	Nickel	7440-02-0	9.40		0.0990	0.396	2
06141	Selenium	7782-49-2	0.132	J	0.0574	0.396	2
06142	Silver	7440-22-4	0.0809	J	0.0141	0.0990	2
06145	Thallium	7440-28-0	0.237		0.0297	0.0990	2
06148	Vanadium	7440-62-2	31.0		0.0218	0.0990	2
06149	Zinc	7440-66-6	106		0.554	2.97	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069	U	0.0069	0.0982	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.79	0.99	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.0	U	9.0	30.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.44		0.0100	0.0100	1

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

Sample Description: SL-002-SA3-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA3-SS-0.0-0.5

LLI Sample # SW 6419489
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 08:15

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL002 SDG#: DE253-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%		%	%	
11624	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50	1

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11277SLC026	10/06/2011 12:57	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLG026	10/10/2011 07:55	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLG026	10/04/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11277SLC026	10/05/2011 07:35	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112770013A	10/06/2011 00:08	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112780013A	10/10/2011 17:38	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112740010A	10/04/2011 13:01	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112780013A	10/05/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112740010A	10/03/2011 16:15	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112770013A	10/05/2011 02:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112715708001	10/07/2011 08:05	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112715708001	10/07/2011 08:05	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112715708001	10/07/2011 08:05	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112715708001	10/07/2011 08:05	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112715708001	10/07/2011 08:05	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112715708001	10/07/2011 08:05	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112715708001	10/07/2011 08:05	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112715708001	10/07/2011 08:05	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112715708001	10/07/2011 08:05	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112715708001	10/07/2011 08:05	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112715708001	10/07/2011 08:05	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112715708001	10/07/2011 08:05	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112715708001	10/07/2011 08:05	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112715708001	10/07/2011 08:05	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112711026001A	09/29/2011 12:56	Choon Y Tian	2

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

Sample Description: SL-002-SA3-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA3-SS-0.0-0.5

LLI Sample # SW 6419489
LLI Group # 1268378
Account # 13013

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Suite 210
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SL002 SDG#: DE253-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112711026001A	09/29/2011 12:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112711026001D	09/29/2011 12:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112711026001A	09/29/2011 17:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112711026001A	09/29/2011 12:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112711026001A	09/29/2011 12:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112711026001A	09/29/2011 12:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112711026001A	09/29/2011 12:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112711026001A	09/29/2011 12:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112711026001C	09/29/2011 12:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112711026001A	09/29/2011 12:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112711026001B	09/29/2011 12:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112711026001A	09/29/2011 12:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112711026001A	09/29/2011 12:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112711026001A	09/29/2011 12:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112711026001A	09/29/2011 12:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112715711003	09/29/2011 09:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112715708001	09/28/2011 22:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112711026001	09/28/2011 22:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112715711003	09/29/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621201A	10/05/2011 12:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621201A	10/05/2011 16:42	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243201A	10/06/2011 18:06	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621201A	10/03/2011 07:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621201A	10/04/2011 08:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11283039401A	10/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243201A	10/05/2011 13:05	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-002-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419490
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:35

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL025 SDG#: DE253-03

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

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

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LLI Sample # SW 6419490
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:35

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Suite 210
Chantilly VA 20151

SL025 SDG#: DE253-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
4,6-dinitro-2-methylphenol

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.96	J	0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	1.9		0.67	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	7.1		0.67	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	7.1	J	6.0	18	1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18	1
10138	Chrysene	218-01-9	2.6		0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7	1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18	1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	21		6.0	18	1
10138	Fluoranthene	206-44-0	2.9		0.67	1.7	1
10138	Fluorene	86-73-7	1.7		0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.88	J	0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.70	J	0.67	1.7	1
10138	Naphthalene	91-20-3	1.3	J	0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	11	J	6.0	18	1
10138	Phenanthrene	85-01-8	1.9		0.67	1.7	1
10138	Pyrene	129-00-0	2.5		0.67	1.7	1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1	1
10401	2,4-DB	94-82-6	1.7	J	0.63	1.7	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	77	U	77	250	1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250	1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17	1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

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SL025 SDG#: DE253-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.14	J	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.040	J	0.035	0.17	1
01363	Chlordane	57-74-9	8.0		0.82	3.5	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35	1
01363	p,p-DDE	72-55-9	2.8		0.067	0.35	1
01363	p,p-DDT	50-29-3	2.4		0.34	1.7	5
01363	Delta BHC	319-86-8	0.052	J	0.037	0.17	1
01363	Dieldrin	60-57-1	0.48	U	0.48	0.48	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.32	U	0.32	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.31	U	0.31	0.35	1
01363	Endrin	72-20-8	0.067	U	0.067	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.49		0.067	0.35	1
01363	Endrin Ketone	53494-70-5	0.15	U	0.15	0.35	1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.18	U	0.18	0.18	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.27	U	0.27	0.35	1
01363	Toxaphene	8001-35-2	15		2.2	6.7	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	3.3	J	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	4.3		0.34	1.7	1
10225	PCB-1260	11096-82-5	5.6		0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,600		6.06	20.0	1
07914	Boron	7440-42-8	10.9		0.361	5.01	1
01650	Calcium	7440-70-2	5,460		2.50	20.0	1
01654	Iron	7439-89-6	25,100		2.61	20.0	1
01656	Lithium	7439-93-2	20.0		0.62	2.0	1

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

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SSFL Area IV Collocated Soil Sampling
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LLI Sample # SW 6419490
LLI Group # 1268378
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SL025 SDG#: DE253-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	5,310		0.441	10.0	1
06958	Manganese	7439-96-5	385		0.0361	0.501	1
10145	Phosphorus	7723-14-0	825		0.350	10.0	1
01662	Potassium	7440-09-7	4,290		11.3	50.1	1
01667	Sodium	7440-23-5	101		5.96	100	1
07968	Strontium	7440-24-6	29.6		0.0250	0.501	1
06969	Tin	7440-31-5	3.06	J	0.320	10.0	1
06970	Titanium	7440-32-6	1,230		0.0711	1.00	1
10146	Zirconium	7440-67-7	6.76		0.461	5.01	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.309		0.0748	0.202	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.53		0.0809	0.405	2
06126	Barium	7440-39-3	105		0.107	0.405	2
06127	Beryllium	7440-41-7	0.482		0.0162	0.101	2
06128	Cadmium	7440-43-9	0.345		0.0445	0.101	2
06131	Chromium	7440-47-3	48.8		0.121	0.405	2
06132	Cobalt	7440-48-4	7.83		0.0202	0.101	2
06133	Copper	7440-50-8	11.0		0.0809	0.405	2
06135	Lead	7439-92-1	24.2		0.0103	0.202	2
06138	Molybdenum	7439-98-7	0.747		0.0506	0.101	2
06139	Nickel	7440-02-0	15.8		0.101	0.405	2
06141	Selenium	7782-49-2	0.294	J	0.0587	0.405	2
06142	Silver	7440-22-4	0.0472	J	0.0144	0.101	2
06145	Thallium	7440-28-0	0.219		0.0303	0.101	2
06148	Vanadium	7440-62-2	84.4		0.0222	0.101	2
06149	Zinc	7440-66-6	75.9		0.566	3.03	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0222	J	0.0069	0.0979	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.83	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.04		0.0100	0.0100	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5DS-SS-0.0-0.5 Soil
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SL025 SDG#: DE253-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	2.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11277SLC026	10/06/2011 13:22	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLG026	10/10/2011 08:29	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLG026	10/04/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11277SLC026	10/05/2011 07:35	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112770013A	10/06/2011 00:36	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112780013A	10/10/2011 18:07	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112780013A	10/10/2011 18:22	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112740010A	10/04/2011 13:20	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112780013A	10/05/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112740010A	10/03/2011 16:15	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112770013A	10/05/2011 02:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112715708001	10/07/2011 08:09	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112715708001	10/07/2011 08:09	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112715708001	10/07/2011 08:09	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112715708001	10/07/2011 08:09	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112715708001	10/07/2011 08:09	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112715708001	10/07/2011 08:09	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112715708001	10/07/2011 08:09	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112715708001	10/07/2011 08:09	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112715708001	10/07/2011 08:09	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112715708001	10/07/2011 08:09	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112715708001	10/07/2011 08:09	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112715708001	10/07/2011 08:09	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112715708001	10/07/2011 08:09	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112715708001	10/07/2011 08:09	Tara L Snyder	1

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SL025 SDG#: DE253-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112711026001A	09/29/2011 13:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112711026001A	09/29/2011 13:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112711026001D	09/29/2011 13:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112711026001A	09/29/2011 17:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112711026001A	09/29/2011 13:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112711026001A	09/29/2011 13:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112711026001A	09/29/2011 13:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112711026001A	09/29/2011 13:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112711026001A	09/29/2011 13:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112711026001C	09/29/2011 13:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112711026001A	09/29/2011 13:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112711026001B	09/29/2011 13:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112711026001A	09/29/2011 13:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112711026001A	09/29/2011 13:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112711026001A	09/29/2011 13:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112711026001A	09/29/2011 13:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112715711003	09/29/2011 09:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112715708001	09/28/2011 22:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112711026001	09/28/2011 22:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112715711003	09/29/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621201A	10/05/2011 12:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621201A	10/05/2011 17:05	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243201A	10/06/2011 18:20	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621201A	10/03/2011 07:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621201A	10/04/2011 08:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11283039401A	10/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243201A	10/05/2011 13:05	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-001-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419491
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL021 SDG#: DE253-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300	1
04688	Benzoic acid	65-85-0	170	U	170	500	1
04688	Benzyl alcohol	100-51-6	170	U	170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170	1
04688	4-Chloroaniline	106-47-8	66	U	66	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170	1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500	1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Fluoranthene	206-44-0	36	J	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	66	U	66	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	33	U	33	170	1
04688	4-Methylphenol	106-44-5	33	U	33	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	33	U	33	170	1
04688	4-Nitroaniline	100-01-6	66	U	66	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	500	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	500	1

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

Sample Description: SL-001-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419491
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL021 SDG#: DE253-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenanthrene	85-01-8	35	J	17	170	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Pyrene	129-00-0	24	J	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170	1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
4,6-dinitro-2-methylphenol

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	3.2		0.67	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18	1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18	1
10138	Chrysene	218-01-9	0.49	J	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7	1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18	1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.0	18	1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7	1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.9	J	6.0	18	1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	3.6	U	3.6	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	2.0	U	2.0	2.0	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	77	U	77	250	1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250	1
10401	2,4,5-T	93-76-5	0.50	U	0.50	0.50	1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

Sample Description: SL-001-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419491
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL021 SDG#: DE253-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17	1
01363	Chlordane	57-74-9	2.0	J	0.81	3.4	1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34	1
01363	p,p-DDE	72-55-9	0.52		0.066	0.34	1
01363	p,p-DDT	50-29-3	1.2		0.066	0.34	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.17	1
01363	Dieldrin	60-57-1	0.16	U	0.16	0.34	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.23	U	0.23	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34	1
01363	Endrin	72-20-8	0.066	U	0.066	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.43		0.066	0.34	1
01363	Endrin Ketone	53494-70-5	0.31	U	0.31	0.34	1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.097	U	0.097	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.25	U	0.25	0.34	1
01363	Toxaphene	8001-35-2	13	U	13	13	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	2.4	J	1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	8.0		0.33	1.7	1
10225	PCB-1260	11096-82-5	7.7		0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,200		6.09	20.1	1
07914	Boron	7440-42-8	7.49		0.362	5.03	1
01650	Calcium	7440-70-2	5,160		2.52	20.1	1
01654	Iron	7439-89-6	22,900		2.63	20.1	1

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

Sample Description: SL-001-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419491
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL021 SDG#: DE253-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	16.2		0.62	2.0	1
01657	Magnesium	7439-95-4	5,630		0.443	10.1	1
06958	Manganese	7439-96-5	305		0.0362	0.503	1
10145	Phosphorus	7723-14-0	878		0.352	10.1	1
01662	Potassium	7440-09-7	1,760		11.4	50.3	1
01667	Sodium	7440-23-5	124		5.99	101	1
07968	Strontium	7440-24-6	22.0		0.0252	0.503	1
06969	Tin	7440-31-5	3.00	J	0.322	10.1	1
06970	Titanium	7440-32-6	1,240		0.0715	1.01	1
10146	Zirconium	7440-67-7	12.5		0.463	5.03	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.436		0.0730	0.197	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.36		0.0790	0.395	2
06126	Barium	7440-39-3	69.4		0.105	0.395	2
06127	Beryllium	7440-41-7	0.401		0.0158	0.0987	2
06128	Cadmium	7440-43-9	0.294		0.0434	0.0987	2
06131	Chromium	7440-47-3	54.1		0.118	0.395	2
06132	Cobalt	7440-48-4	7.42		0.0197	0.0987	2
06133	Copper	7440-50-8	7.37		0.0790	0.395	2
06135	Lead	7439-92-1	40.1		0.0101	0.197	2
06138	Molybdenum	7439-98-7	0.757		0.0494	0.0987	2
06139	Nickel	7440-02-0	14.0		0.0987	0.395	2
06141	Selenium	7782-49-2	0.257	J	0.0572	0.395	2
06142	Silver	7440-22-4	0.0372	J	0.0140	0.0987	2
06145	Thallium	7440-28-0	0.172		0.0296	0.0987	2
06148	Vanadium	7440-62-2	98.1		0.0217	0.0987	2
06149	Zinc	7440-66-6	72.7		0.553	2.96	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0133	J	0.0070	0.0997	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.6		0.82	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.04		0.0100	0.0100	1

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

Sample Description: SL-001-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419491
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL021 SDG#: DE253-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	0.67	0.50	0.50	1

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11277SLC026	10/06/2011 02:01	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLG026	10/10/2011 05:14	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLG026	10/04/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11277SLC026	10/05/2011 07:35	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112770013A	10/05/2011 22:19	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112780013A	10/10/2011 18:37	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112740010A	10/04/2011 13:38	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112780013A	10/05/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112740010A	10/03/2011 16:15	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112770013A	10/05/2011 02:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112715708001	10/07/2011 07:31	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112715708001	10/07/2011 07:31	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112715708001	10/07/2011 07:31	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112715708001	10/07/2011 07:31	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112715708001	10/07/2011 07:31	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112715708001	10/07/2011 07:31	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112715708001	10/07/2011 07:31	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112715708001	10/07/2011 07:31	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112715708001	10/07/2011 07:31	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112715708001	10/07/2011 07:31	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112715708001	10/07/2011 07:31	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112715708001	10/07/2011 07:31	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112715708001	10/07/2011 07:31	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112715708001	10/07/2011 07:31	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112711026001A	09/29/2011 12:35	Choon Y Tian	2

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

Sample Description: SL-001-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419491
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL021 SDG#: DE253-04BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112711026001A	09/29/2011 12:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112711026001D	09/29/2011 12:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112711026001A	09/29/2011 17:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112711026001A	09/29/2011 12:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112711026001A	09/29/2011 12:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112711026001A	09/29/2011 12:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112711026001A	09/29/2011 12:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112711026001A	09/29/2011 12:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112711026001C	09/29/2011 12:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112711026001A	09/29/2011 12:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112711026001B	09/29/2011 12:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112711026001A	09/29/2011 12:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112711026001A	09/29/2011 12:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112711026001A	09/29/2011 12:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112711026001A	09/29/2011 12:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112715711003	09/29/2011 09:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112715708001	09/28/2011 22:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112711026001	09/28/2011 22:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112715711003	09/29/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621201A	10/05/2011 11:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621201A	10/05/2011 14:24	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243201A	10/06/2011 18:35	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621201A	10/03/2011 07:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621201A	10/04/2011 08:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11283039401A	10/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243201A	10/05/2011 13:05	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-001-SA5DS-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419492
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL021 SDG#: DE253-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700		17	170	1
04688	Acenaphthylene	208-96-8	1,800		17	170	1
04688	Aniline	62-53-3	1,000		170	500	1
04688	Anthracene	120-12-7	1,800		17	170	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300	1
04688	Benzo(a)anthracene	56-55-3	1,700		17	170	1
04688	Benzo(a)pyrene	50-32-8	1,700		17	170	1
04688	Benzo(b)fluoranthene	205-99-2	1,700		17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	1,900		17	170	1
04688	Benzo(k)fluoranthene	207-08-9	1,600		17	170	1
04688	Benzoic acid	65-85-0	940		170	500	1
04688	Benzyl alcohol	100-51-6	1,600		170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		17	170	1
04688	Butylbenzylphthalate	85-68-7	1,800		17	170	1
04688	Di-n-butylphthalate	84-74-2	1,700		17	170	1
04688	Carbazole	86-74-8	1,700		17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	1,600		33	170	1
04688	4-Chloroaniline	106-47-8	680		66	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,500		17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,500		17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,400		17	170	1
04688	2-Chloronaphthalene	91-58-7	1,500		17	170	1
04688	2-Chlorophenol	95-57-8	1,600		17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600		33	170	1
04688	Chrysene	218-01-9	1,700		17	170	1
04688	Dibenz(a,h)anthracene	53-70-3	1,900		17	170	1
04688	Dibenzofuran	132-64-9	1,600		17	170	1
04688	1,2-Dichlorobenzene	95-50-1	1,400		17	170	1
04688	1,3-Dichlorobenzene	541-73-1	1,300		17	170	1
04688	1,4-Dichlorobenzene	106-46-7	1,300		17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,000		99	330	1
04688	2,4-Dichlorophenol	120-83-2	1,600		17	170	1
04688	Diethylphthalate	84-66-2	1,600		17	170	1
04688	2,4-Dimethylphenol	105-67-9	1,700		33	170	1
04688	3,5-Dimethylphenol	108-68-9	1,600		33	170	1
04688	Dimethylphthalate	131-11-3	1,600		17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,000		170	500	1
04688	2,4-Dinitrophenol	51-28-5	1,100		330	990	1
04688	2,4-Dinitrotoluene	121-14-2	1,500		33	170	1
04688	2,6-Dinitrotoluene	606-20-2	1,600		17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900		17	330	1
04688	Fluoranthene	206-44-0	1,800		17	170	1
04688	Fluorene	86-73-7	1,700		17	170	1
04688	Hexachlorobenzene	118-74-1	1,500		17	170	1
04688	Hexachlorobutadiene	87-68-3	1,400		66	170	1
04688	Hexachlorocyclopentadiene	77-47-4	1,600		170	500	1
04688	Hexachloroethane	67-72-1	1,200		17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900		17	170	1
04688	Isophorone	78-59-1	1,600		17	170	1

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

Sample Description: SL-001-SA5DS-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419492
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL021 SDG#: DE253-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,500	17	170	1
04688	2-Methylnaphthalene	91-57-6	1,600	17	170	1
04688	2-Methylphenol	95-48-7	1,600	33	170	1
04688	4-Methylphenol	106-44-5	1,600	33	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,500	17	170	1
04688	2-Nitroaniline	88-74-4	1,600	17	170	1
04688	3-Nitroaniline	99-09-2	1,500	33	170	1
04688	4-Nitroaniline	100-01-6	1,400	66	170	1
04688	Nitrobenzene	98-95-3	1,600	17	170	1
04688	2-Nitrophenol	88-75-5	1,600	17	170	1
04688	4-Nitrophenol	100-02-7	1,500	170	500	1
04688	N-Nitrosodimethylamine	62-75-9	1,400	33	170	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,600	17	170	1
04688	Pentachlorophenol	87-86-5	760	170	500	1
04688	Phenanthrene	85-01-8	1,700	17	170	1
04688	Phenol	108-95-2	1,600	17	170	1
04688	Pyrene	129-00-0	1,700	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,400	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	1,600	33	170	1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	33	170	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol					
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	31	0.66	1.7	1
10138	Acenaphthylene	208-96-8	29	0.33	1.7	1
10138	Anthracene	120-12-7	31	0.33	1.7	1
10138	Benzo(a)anthracene	56-55-3	31	0.66	1.7	1
10138	Benzo(a)pyrene	50-32-8	33	0.66	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	35	0.66	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	22	0.66	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	37	0.66	1.7	1
10138	Butylbenzylphthalate	85-68-7	46	6.0	18	1
10138	Di-n-butylphthalate	84-74-2	38	6.0	18	1
10138	Chrysene	218-01-9	33	0.33	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	24	0.66	1.7	1
10138	Diethylphthalate	84-66-2	31	6.0	18	1
10138	Dimethylphthalate	131-11-3	33	6.0	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	78	6.0	18	1

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

Sample Description: SL-001-SA5DS-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419492
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL021 SDG#: DE253-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	38		0.66	1.7	1
10138	Fluorene	86-73-7	31		0.66	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	24		0.66	1.7	1
10138	1-Methylnaphthalene	90-12-0	29		0.66	1.7	1
10138	2-Methylnaphthalene	91-57-6	29		0.66	1.7	1
10138	Naphthalene	91-20-3	29		0.66	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	27		0.66	1.7	1
10138	Di-n-octylphthalate	117-84-0	59		6.0	18	1
10138	Phenanthrene	85-01-8	32		0.66	1.7	1
10138	Pyrene	129-00-0	33		0.66	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	7.8		1.2	3.6	1
10401	Dalapon	75-99-0	4.6	J	4.4	9.0	1
10401	2,4-DB	94-82-6	0.62	U	0.62	1.7	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7	1
10401	MCPA	94-74-6	76	U	76	250	1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250	1
10401	2,4,5-T	93-76-5	0.48		0.082	0.17	1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.20		0.066	0.17	1
01363	Alpha BHC	319-84-6	0.21		0.034	0.17	1
01363	Beta BHC	319-85-7	0.13	J	0.060	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.25		0.034	0.17	1
01363	Chlordane	57-74-9	3.7		0.81	3.4	1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34	1
01363	p,p-DDE	72-55-9	0.91		0.066	0.34	1
01363	p,p-DDT	50-29-3	1.5		0.066	0.34	1
01363	Delta BHC	319-86-8	0.26		0.036	0.17	1
01363	Dieldrin	60-57-1	0.47		0.066	0.34	1
01363	Endosulfan I	959-98-8	0.25		0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.56		0.066	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.47		0.066	0.34	1
01363	Endrin	72-20-8	0.60		0.066	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.43		0.066	0.34	1
01363	Endrin Ketone	53494-70-5	0.57		0.066	0.34	1
01363	Heptachlor	76-44-8	0.23		0.060	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.41		0.034	0.17	1
01363	Methoxychlor	72-43-5	1.9		0.34	1.7	1
01363	Mirex	2385-85-5	0.36		0.066	0.34	1
01363	Toxaphene	8001-35-2	14	U	14	14	1

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

Various analytes in the calibration check standards bracketing the sample were

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

Sample Description: SL-001-SA5DS-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419492
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL021 SDG#: DE253-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3	1
10225	PCB-1016	12674-11-2	14		0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	6.6		0.33	1.7	1
10225	PCB-1260	11096-82-5	15		0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,100		6.03	19.9	1
07914	Boron	7440-42-8	192		0.359	4.98	1
01650	Calcium	7440-70-2	6,500		2.49	19.9	1
01654	Iron	7439-89-6	23,200		2.60	19.9	1
01656	Lithium	7439-93-2	112		0.62	2.0	1
01657	Magnesium	7439-95-4	5,920		0.439	9.97	1
06958	Manganese	7439-96-5	358		0.0359	0.498	1
10145	Phosphorus	7723-14-0	980		0.349	9.97	1
01662	Potassium	7440-09-7	3,000		11.3	49.8	1
01667	Sodium	7440-23-5	1,140		5.93	99.7	1
07968	Strontium	7440-24-6	120		0.0249	0.498	1
06969	Tin	7440-31-5	364		0.319	9.97	1
06970	Titanium	7440-32-6	1,770		0.0708	0.997	1
10146	Zirconium	7440-67-7	106		0.459	4.98	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.08		0.0745	0.201	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.1		0.0805	0.403	2
06126	Barium	7440-39-3	82.8		0.107	0.403	2
06127	Beryllium	7440-41-7	1.05		0.0161	0.101	2
06128	Cadmium	7440-43-9	1.73		0.0443	0.101	2
06131	Chromium	7440-47-3	72.3		0.121	0.403	2
06132	Cobalt	7440-48-4	64.0		0.0201	0.101	2
06133	Copper	7440-50-8	20.6		0.0805	0.403	2
06135	Lead	7439-92-1	40.2		0.0103	0.201	2
06138	Molybdenum	7439-98-7	15.4		0.0503	0.101	2
06139	Nickel	7440-02-0	28.8		0.101	0.403	2
06141	Selenium	7782-49-2	3.02		0.0584	0.403	2
06142	Silver	7440-22-4	14.0		0.0143	0.101	2
06145	Thallium	7440-28-0	0.711		0.0302	0.101	2

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-001-SA5DS-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419492
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL021 SDG#: DE253-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06148	Vanadium	7440-62-2	120		0.0221	0.101	2
06149	Zinc	7440-66-6	85.1		0.564	3.02	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.141		0.0068	0.0974	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.7		0.82	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	578	J	453	1,510	50
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	34.1		1.0	5.0	5
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11625	Moisture Content by 160.3	n.a.	0.67		0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11277SLC026	10/06/2011 02:26	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLG026	10/10/2011 05:46	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLG026	10/04/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11277SLC026	10/05/2011 07:35	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112770013A	10/05/2011 22:46	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112780013A	10/10/2011 19:07	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112740010A	10/04/2011 13:57	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112780013A	10/05/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112740010A	10/03/2011 16:15	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112770013A	10/05/2011 02:00	Kerrie A Freeburn	1

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

Sample Description: SL-001-SA5DS-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419492
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL021 SDG#: DE253-04MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112715708001	10/07/2011 07:42	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112715708001	10/07/2011 07:42	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112715708001	10/07/2011 07:42	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112715708001	10/07/2011 07:42	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112715708001	10/07/2011 07:42	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112715708001	10/07/2011 07:42	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112715708001	10/07/2011 07:42	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112715708001	10/07/2011 07:42	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112715708001	10/07/2011 07:42	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112715708001	10/07/2011 07:42	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112715708001	10/07/2011 07:42	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112715708001	10/07/2011 07:42	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112715708001	10/07/2011 07:42	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112715708001	10/07/2011 07:42	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112711026001A	09/29/2011 12:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112711026001A	09/29/2011 12:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112711026001D	09/29/2011 12:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112711026001A	09/29/2011 17:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112711026001A	09/29/2011 12:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112711026001A	09/29/2011 12:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112711026001A	09/29/2011 12:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112711026001A	09/29/2011 12:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112711026001A	09/29/2011 12:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112711026001C	09/29/2011 12:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112711026001A	09/29/2011 12:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112711026001B	09/29/2011 12:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112711026001A	09/29/2011 12:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112711026001A	09/29/2011 12:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112711026001A	09/29/2011 12:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112711026001A	09/29/2011 12:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112715711003	09/29/2011 09:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112715708001	09/28/2011 22:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112711026001	09/28/2011 22:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112715711003	09/29/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621201A	10/05/2011 12:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11277621201A	10/08/2011 10:55	Elyse P Brunstetter	50
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11278243201A	10/07/2011 11:13	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621201A	10/03/2011 07:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621201A	10/04/2011 08:00	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243201A	10/05/2011 13:05	Yolunder Y Bunch	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-001-SA5DS-SS-0.0-0.5 MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419492
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL021 SDG#: DE253-04MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-001-SA5DS-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419493
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL021 SDG#: DE253-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		17	170	1
04688	Acenaphthylene	208-96-8	1,800		17	170	1
04688	Aniline	62-53-3	1,000		170	500	1
04688	Anthracene	120-12-7	1,700		17	170	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(a)anthracene	56-55-3	1,700		17	170	1
04688	Benzo(a)pyrene	50-32-8	1,700		17	170	1
04688	Benzo(b)fluoranthene	205-99-2	1,700		17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	1,900		17	170	1
04688	Benzo(k)fluoranthene	207-08-9	1,600		17	170	1
04688	Benzoic acid	65-85-0	670		170	500	1
04688	Benzyl alcohol	100-51-6	1,600		170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		17	170	1
04688	Butylbenzylphthalate	85-68-7	1,800		17	170	1
04688	Di-n-butylphthalate	84-74-2	1,700		17	170	1
04688	Carbazole	86-74-8	1,700		17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		34	170	1
04688	4-Chloroaniline	106-47-8	630		67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,500		17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,500		17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,400		17	170	1
04688	2-Chloronaphthalene	91-58-7	1,400		17	170	1
04688	2-Chlorophenol	95-57-8	1,600		17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,500		34	170	1
04688	Chrysene	218-01-9	1,700		17	170	1
04688	Dibenz(a,h)anthracene	53-70-3	1,900		17	170	1
04688	Dibenzofuran	132-64-9	1,600		17	170	1
04688	1,2-Dichlorobenzene	95-50-1	1,400		17	170	1
04688	1,3-Dichlorobenzene	541-73-1	1,400		17	170	1
04688	1,4-Dichlorobenzene	106-46-7	1,400		17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100		100	340	1
04688	2,4-Dichlorophenol	120-83-2	1,600		17	170	1
04688	Diethylphthalate	84-66-2	1,500		17	170	1
04688	2,4-Dimethylphenol	105-67-9	1,600		34	170	1
04688	3,5-Dimethylphenol	108-68-9	1,600		34	170	1
04688	Dimethylphthalate	131-11-3	1,500		17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	920		170	500	1
04688	2,4-Dinitrophenol	51-28-5	790	J	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	1,500		34	170	1
04688	2,6-Dinitrotoluene	606-20-2	1,600		17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		17	340	1
04688	Fluoranthene	206-44-0	1,700		17	170	1
04688	Fluorene	86-73-7	1,600		17	170	1
04688	Hexachlorobenzene	118-74-1	1,500		17	170	1
04688	Hexachlorobutadiene	87-68-3	1,400		67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	1,400		170	500	1
04688	Hexachloroethane	67-72-1	1,300		17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,000		17	170	1
04688	Isophorone	78-59-1	1,600		17	170	1

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

Sample Description: SL-001-SA5DS-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419493
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL021 SDG#: DE253-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,500	17	170	1
04688	2-Methylnaphthalene	91-57-6	1,600	17	170	1
04688	2-Methylphenol	95-48-7	1,600	34	170	1
04688	4-Methylphenol	106-44-5	1,500	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,600	17	170	1
04688	2-Nitroaniline	88-74-4	1,500	17	170	1
04688	3-Nitroaniline	99-09-2	1,400	34	170	1
04688	4-Nitroaniline	100-01-6	1,100	67	170	1
04688	Nitrobenzene	98-95-3	1,600	17	170	1
04688	2-Nitrophenol	88-75-5	1,600	17	170	1
04688	4-Nitrophenol	100-02-7	1,400	170	500	1
04688	N-Nitrosodimethylamine	62-75-9	1,400	34	170	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,600	17	170	1
04688	Pentachlorophenol	87-86-5	1,100	170	500	1
04688	Phenanthrene	85-01-8	1,700	17	170	1
04688	Phenol	108-95-2	1,500	17	170	1
04688	Pyrene	129-00-0	1,700	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,500	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	1,600	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	1,600	34	170	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol					
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	31	0.66	1.7	1
10138	Acenaphthylene	208-96-8	31	0.33	1.7	1
10138	Anthracene	120-12-7	33	0.33	1.7	1
10138	Benzo(a)anthracene	56-55-3	32	0.66	1.7	1
10138	Benzo(a)pyrene	50-32-8	33	0.66	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	34	0.66	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	24	0.66	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	35	0.66	1.7	1
10138	Butylbenzylphthalate	85-68-7	41	5.9	18	1
10138	Di-n-butylphthalate	84-74-2	38	5.9	18	1
10138	Chrysene	218-01-9	32	0.33	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	27	0.66	1.7	1
10138	Diethylphthalate	84-66-2	33	5.9	18	1
10138	Dimethylphthalate	131-11-3	33	5.9	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	63	5.9	18	1

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

Sample Description: SL-001-SA5DS-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419493
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL021 SDG#: DE253-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	35		0.66	1.7	1
10138	Fluorene	86-73-7	33		0.66	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	26		0.66	1.7	1
10138	1-Methylnaphthalene	90-12-0	29		0.66	1.7	1
10138	2-Methylnaphthalene	91-57-6	29		0.66	1.7	1
10138	Naphthalene	91-20-3	30		0.66	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	29		0.66	1.7	1
10138	Di-n-octylphthalate	117-84-0	48		5.9	18	1
10138	Phenanthrene	85-01-8	31		0.66	1.7	1
10138	Pyrene	129-00-0	31		0.66	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	5.2		1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	0.62	U	0.62	1.7	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.83	J	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	76	U	76	250	1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250	1
10401	2,4,5-T	93-76-5	0.43		0.083	0.17	1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17	1

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

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.22		0.066	0.17	1
01363	Alpha BHC	319-84-6	0.22		0.034	0.17	1
01363	Beta BHC	319-85-7	0.17		0.060	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.28		0.034	0.17	1
01363	Chlordane	57-74-9	12		0.81	3.4	1
01363	p,p-DDD	72-54-8	0.61		0.066	0.34	1
01363	p,p-DDE	72-55-9	1.1		0.066	0.34	1
01363	p,p-DDT	50-29-3	1.6		0.066	0.34	1
01363	Delta BHC	319-86-8	0.28		0.036	0.17	1
01363	Dieldrin	60-57-1	0.52		0.066	0.34	1
01363	Endosulfan I	959-98-8	0.23		0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.43		0.066	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.58		0.066	0.34	1
01363	Endrin	72-20-8	0.59		0.066	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.56		0.066	0.34	1
01363	Endrin Ketone	53494-70-5	0.56		0.066	0.34	1
01363	Heptachlor	76-44-8	0.25		0.060	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.33		0.034	0.17	1
01363	Methoxychlor	72-43-5	2.1		0.34	1.7	1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34	1
01363	Toxaphene	8001-35-2	17	U	17	17	1

Various analytes in the calibration check standards bracketing the sample were

Sample Description: SL-001-SA5DS-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419493
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL021 SDG#: DE253-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	5.3		1.0	3.3	1
10225	PCB-1016	12674-11-2	13		0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	18		0.33	1.7	1
10225	PCB-1260	11096-82-5	15		0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,100		6.03	19.9	1
07914	Boron	7440-42-8	195		0.359	4.98	1
01650	Calcium	7440-70-2	6,190		2.49	19.9	1
01654	Iron	7439-89-6	23,600		2.60	19.9	1
01656	Lithium	7439-93-2	113		0.62	2.0	1
01657	Magnesium	7439-95-4	6,010		0.439	9.97	1
06958	Manganese	7439-96-5	366		0.0359	0.498	1
10145	Phosphorus	7723-14-0	971		0.349	9.97	1
01662	Potassium	7440-09-7	3,000		11.3	49.8	1
01667	Sodium	7440-23-5	1,140		5.93	99.7	1
07968	Strontium	7440-24-6	121		0.0249	0.498	1
06969	Tin	7440-31-5	366		0.319	9.97	1
06970	Titanium	7440-32-6	1,790		0.0708	0.997	1
10146	Zirconium	7440-67-7	106		0.459	4.98	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.03		0.0738	0.199	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.4		0.0797	0.399	2
06126	Barium	7440-39-3	82.5		0.106	0.399	2
06127	Beryllium	7440-41-7	1.01		0.0159	0.0997	2
06128	Cadmium	7440-43-9	1.72		0.0439	0.0997	2
06131	Chromium	7440-47-3	70.5		0.120	0.399	2
06132	Cobalt	7440-48-4	63.9		0.0199	0.0997	2
06133	Copper	7440-50-8	20.7		0.0797	0.399	2
06135	Lead	7439-92-1	43.5		0.0102	0.199	2
06138	Molybdenum	7439-98-7	15.4		0.0498	0.0997	2
06139	Nickel	7440-02-0	28.3		0.0997	0.399	2
06141	Selenium	7782-49-2	2.95		0.0578	0.399	2
06142	Silver	7440-22-4	14.0		0.0142	0.0997	2
06145	Thallium	7440-28-0	0.734		0.0299	0.0997	2

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA5DS-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419493
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL021 SDG#: DE253-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06148	Vanadium	7440-62-2	118	0.0219	0.0997	2
06149	Zinc	7440-66-6	85.7	0.558	2.99	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.164	0.0070	0.0990	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	0.67	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11277SLC026	10/06/2011 02:51	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLG026	10/10/2011 06:18	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLG026	10/04/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11277SLC026	10/05/2011 07:35	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112770013A	10/05/2011 23:13	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112780013A	10/10/2011 19:22	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112740010A	10/04/2011 14:16	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112780013A	10/05/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112740010A	10/03/2011 16:15	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112770013A	10/05/2011 02:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112715708001	10/07/2011 07:46	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112715708001	10/07/2011 07:46	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112715708001	10/07/2011 07:46	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112715708001	10/07/2011 07:46	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112715708001	10/07/2011 07:46	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112715708001	10/07/2011 07:46	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112715708001	10/07/2011 07:46	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112715708001	10/07/2011 07:46	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112715708001	10/07/2011 07:46	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112715708001	10/07/2011 07:46	Tara L Snyder	1

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

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Analysis Report

Sample Description: SL-001-SA5DS-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419493
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL021 SDG#: DE253-04MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112715708001	10/07/2011 07:46	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112715708001	10/07/2011 07:46	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112715708001	10/07/2011 07:46	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112715708001	10/07/2011 07:46	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112711026001A	09/29/2011 12:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112711026001A	09/29/2011 12:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112711026001D	09/29/2011 12:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112711026001A	09/29/2011 17:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112711026001A	09/29/2011 12:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112711026001A	09/29/2011 12:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112711026001A	09/29/2011 12:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112711026001A	09/29/2011 12:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112711026001A	09/29/2011 12:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112711026001C	09/29/2011 12:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112711026001A	09/29/2011 12:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112711026001B	09/29/2011 12:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112711026001A	09/29/2011 12:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112711026001A	09/29/2011 12:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112711026001A	09/29/2011 12:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112711026001A	09/29/2011 12:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112715711003	09/29/2011 09:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112715708001	09/28/2011 22:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112711026001	09/28/2011 22:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112715711003	09/29/2011 01:10	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA5DS-SS-0.0-0.5 DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419494
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL021 SDG#: DE253-04DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,100		6.09	20.1	1
07914	Boron	7440-42-8	7.71		0.362	5.03	1
01650	Calcium	7440-70-2	5,170		2.52	20.1	1
01654	Iron	7439-89-6	23,200		2.63	20.1	1
01656	Lithium	7439-93-2	16.5		0.62	2.0	1
01657	Magnesium	7439-95-4	5,670		0.443	10.1	1
06958	Manganese	7439-96-5	293		0.0362	0.503	1
10145	Phosphorus	7723-14-0	879		0.352	10.1	1
01662	Potassium	7440-09-7	1,780		11.4	50.3	1
01667	Sodium	7440-23-5	123		5.99	101	1
07968	Strontium	7440-24-6	21.9		0.0252	0.503	1
06969	Tin	7440-31-5	3.10	J	0.322	10.1	1
06970	Titanium	7440-32-6	1,270		0.0715	1.01	1
10146	Zirconium	7440-67-7	13.2		0.463	5.03	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.400		0.0730	0.197	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.31		0.0790	0.395	2
06126	Barium	7440-39-3	64.0		0.105	0.395	2
06127	Beryllium	7440-41-7	0.377		0.0158	0.0987	2
06128	Cadmium	7440-43-9	0.231		0.0434	0.0987	2
06131	Chromium	7440-47-3	52.0		0.118	0.395	2
06132	Cobalt	7440-48-4	6.88		0.0197	0.0987	2
06133	Copper	7440-50-8	7.16		0.0790	0.395	2
06135	Lead	7439-92-1	35.9		0.0101	0.197	2
06138	Molybdenum	7439-98-7	0.708		0.0494	0.0987	2
06139	Nickel	7440-02-0	13.0		0.0987	0.395	2
06141	Selenium	7782-49-2	0.243	J	0.0572	0.395	2
06142	Silver	7440-22-4	0.0346	J	0.0140	0.0987	2
06145	Thallium	7440-28-0	0.159		0.0296	0.0987	2
06148	Vanadium	7440-62-2	95.5		0.0217	0.0987	2
06149	Zinc	7440-66-6	70.6		0.553	2.96	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0068	U	0.0068	0.0971	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.79	0.99	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA5DS-SS-0.0-0.5 DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419494
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL021 SDG#: DE253-04DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	6.06	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11626	28a Moisture Content by 160.3	n.a.	0.62	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
11625	Moisture Content by 160.3	n.a.	0.67	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112715708001	10/07/2011 07:38	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112715708001	10/07/2011 07:38	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112715708001	10/07/2011 07:38	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112715708001	10/07/2011 07:38	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112715708001	10/07/2011 07:38	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112715708001	10/07/2011 07:38	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112715708001	10/07/2011 07:38	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112715708001	10/07/2011 07:38	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112715708001	10/07/2011 07:38	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112715708001	10/07/2011 07:38	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112715708001	10/07/2011 07:38	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112715708001	10/07/2011 07:38	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112715708001	10/07/2011 07:38	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112715708001	10/07/2011 07:38	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112711026001A	09/29/2011 12:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112711026001A	09/29/2011 12:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112711026001D	09/29/2011 12:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112711026001A	09/29/2011 17:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112711026001A	09/29/2011 12:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112711026001A	09/29/2011 12:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112711026001A	09/29/2011 12:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112711026001A	09/29/2011 12:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112711026001A	09/29/2011 12:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112711026001C	09/29/2011 12:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112711026001A	09/29/2011 12:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112711026001B	09/29/2011 12:41	Choon Y Tian	2

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA5DS-SS-0.0-0.5 DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419494
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL021 SDG#: DE253-04DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112711026001A	09/29/2011 12:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112711026001A	09/29/2011 12:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112711026001A	09/29/2011 12:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112711026001A	09/29/2011 12:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112715711003	09/29/2011 09:26	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112715708001	09/28/2011 22:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112711026001	09/28/2011 22:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112715711003	09/29/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621201A	10/05/2011 12:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621201A	10/05/2011 14:47	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243201A	10/06/2011 19:47	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621201A	10/03/2011 07:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621201A	10/04/2011 08:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11283039401A	10/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243201A	10/05/2011 13:05	Yolunder Y Bunch	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA5DS-SS-0.0-0.5 RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419495
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL021 SDG#: DE253-04RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	2.5	J	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0	1
10401	2,4-DB	94-82-6	2.0	U	2.0	2.0	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7	1
10401	MCPA	94-74-6	76	U	76	250	1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250	1
10401	2,4,5-T	93-76-5	0.24	U	0.24	0.24	1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.13	J	0.066	0.17	1
01363	Alpha BHC	319-84-6	0.14	J	0.034	0.17	1
01363	Beta BHC	319-85-7	0.072	J	0.060	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.21		0.034	0.17	1
01363	Chlordane	57-74-9	10		0.81	3.4	1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34	1
01363	p,p-DDE	72-55-9	0.83		0.066	0.34	1
01363	p,p-DDT	50-29-3	1.7		0.066	0.34	1
01363	Delta BHC	319-86-8	0.18		0.036	0.17	1
01363	Dieldrin	60-57-1	0.40		0.066	0.34	1
01363	Endosulfan I	959-98-8	0.16	J	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.45		0.066	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.43		0.066	0.34	1
01363	Endrin	72-20-8	0.31	J	0.066	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.52		0.066	0.34	1
01363	Endrin Ketone	53494-70-5	0.29	J	0.066	0.34	1
01363	Heptachlor	76-44-8	0.16	J	0.060	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.22		0.034	0.17	1
01363	Methoxychlor	72-43-5	2.2		0.34	1.7	1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34	1
01363	Toxaphene	8001-35-2	16	U	16	16	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3	1
10225	PCB-1016	12674-11-2	1.6	J	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA5DS-SS-0.0-0.5 RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419495
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL021 SDG#: DE253-04RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	2.1		0.33	1.7	1
10225	PCB-1260	11096-82-5	5.5		0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	
11625	Moisture Content by 160.3	n.a.	0.67		0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112770013A	10/06/2011 01:03	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112780013A	10/10/2011 21:20	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112740010A	10/04/2011 14:35	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112780013A	10/05/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112740010A	10/03/2011 16:15	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112770013A	10/05/2011 02:00	Kerrie A Freeburn	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA5DS-SS-0.0-0.5 RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419496
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL021 SDG#: DE253-04RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	5.3		1.2	3.6	1
10401	Dalapon	75-99-0	8.0	J	4.4	9.0	1
10401	2,4-DB	94-82-6	1.9		0.62	1.7	1
10401	Dicamba	1918-00-9	1.1	J	0.40	1.2	1
10401	Dinoseb	88-85-7	0.30	J	0.10	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	2.1		0.80	1.7	1
10401	MCPA	94-74-6	170	J	76	250	1
10401	MCPP (Mecoprop)	93-65-2	150	J	75	250	1
10401	2,4,5-T	93-76-5	0.17		0.082	0.17	1
10401	2,4,5-TP	93-72-1	0.16	J	0.075	0.17	1

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

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.16	J	0.066	0.17	1
01363	Alpha BHC	319-84-6	0.13	J	0.034	0.17	1
01363	Beta BHC	319-85-7	0.18		0.060	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.15	J	0.034	0.17	1
01363	Chlordane	57-74-9	0.80	U	0.80	3.4	1
01363	p,p-DDD	72-54-8	0.37		0.066	0.34	1
01363	p,p-DDE	72-55-9	0.40		0.066	0.34	1
01363	p,p-DDT	50-29-3	0.20	J	0.066	0.34	1
01363	Delta BHC	319-86-8	0.18		0.036	0.17	1
01363	Dieldrin	60-57-1	0.18	J	0.066	0.34	1
01363	Endosulfan I	959-98-8	0.15	J	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.21	J	0.066	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.18	J	0.066	0.34	1
01363	Endrin	72-20-8	0.29	J	0.066	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.27	J	0.066	0.34	1
01363	Endrin Ketone	53494-70-5	0.25	J	0.066	0.34	1
01363	Heptachlor	76-44-8	0.17		0.060	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.18		0.034	0.17	1
01363	Methoxychlor	72-43-5	0.86	J	0.34	1.7	1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6	1

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

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3	1
10225	PCB-1016	12674-11-2	1.7	J	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA5DS-SS-0.0-0.5 RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419496
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL021 SDG#: DE253-04RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	1.9		0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112770013A	10/06/2011 02:25	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112780013A	10/10/2011 16:39	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112740010A	10/04/2011 14:53	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112780013A	10/05/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112740010A	10/03/2011 16:15	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112770013A	10/05/2011 02:00	Kerrie A Freeburn	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419497
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 10:35

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL026 SDG#: DE253-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	8,300	U	8,300	25,000	5
04688	Benzidine	92-87-5	58,000	U	58,000	170,000	5
04688	Benzo(a)pyrene	50-32-8	1,400	J	830	8,300	5
04688	Benzo(b)fluoranthene	205-99-2	1,400	J	830	8,300	5
04688	Benzo(g,h,i)perylene	191-24-2	1,100	J	830	8,300	5
04688	Benzoic acid	65-85-0	8,300	U	8,300	25,000	5
04688	Benzyl alcohol	100-51-6	8,300	U	8,300	25,000	5
04688	4-Bromophenyl-phenylether	101-55-3	830	U	830	8,300	5
04688	Carbazole	86-74-8	830	U	830	8,300	5
04688	4-Chloro-3-methylphenol	59-50-7	1,700	U	1,700	8,300	5
04688	4-Chloroaniline	106-47-8	3,300	U	3,300	8,300	5
04688	bis(2-Chloroethoxy)methane	111-91-1	830	U	830	8,300	5
04688	bis(2-Chloroethyl)ether	111-44-4	830	U	830	8,300	5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	830	U	830	8,300	5
04688	2-Chloronaphthalene	91-58-7	830	U	830	8,300	5
04688	2-Chlorophenol	95-57-8	830	U	830	8,300	5
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700	U	1,700	8,300	5
04688	Chrysene	218-01-9	1,500	J	830	8,300	5
04688	Dibenzofuran	132-64-9	830	U	830	8,300	5
04688	1,2-Dichlorobenzene	95-50-1	830	U	830	8,300	5
04688	1,3-Dichlorobenzene	541-73-1	830	U	830	8,300	5
04688	1,4-Dichlorobenzene	106-46-7	830	U	830	8,300	5
04688	3,3'-Dichlorobenzidine	91-94-1	5,000	U	5,000	17,000	5
04688	2,4-Dichlorophenol	120-83-2	830	U	830	8,300	5
04688	2,4-Dimethylphenol	105-67-9	1,700	U	1,700	8,300	5
04688	3,5-Dimethylphenol	108-68-9	1,700	U	1,700	8,300	5
04688	4,6-Dinitro-2-methylphenol	534-52-1	8,300	U	8,300	25,000	5
04688	2,4-Dinitrophenol	51-28-5	17,000	U	17,000	50,000	5
04688	2,4-Dinitrotoluene	121-14-2	1,700	U	1,700	8,300	5
04688	2,6-Dinitrotoluene	606-20-2	830	U	830	8,300	5
04688	1,2-Diphenylhydrazine	122-66-7	830	U	830	8,300	5
04688	Fluoranthene	206-44-0	1,100	J	830	8,300	5
04688	Hexachlorobenzene	118-74-1	830	U	830	8,300	5
04688	Hexachlorobutadiene	87-68-3	3,300	U	3,300	8,300	5
04688	Hexachlorocyclopentadiene	77-47-4	8,300	U	8,300	25,000	5
04688	Hexachloroethane	67-72-1	830	U	830	8,300	5
04688	Isophorone	78-59-1	830	U	830	8,300	5
04688	2-Methylphenol	95-48-7	1,700	U	1,700	8,300	5
04688	4-Methylphenol	106-44-5	1,700	U	1,700	8,300	5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	830	U	830	8,300	5
04688	3-Nitroaniline	99-09-2	1,700	U	1,700	8,300	5
04688	4-Nitroaniline	100-01-6	3,300	U	3,300	8,300	5
04688	Nitrobenzene	98-95-3	830	U	830	8,300	5
04688	2-Nitrophenol	88-75-5	830	U	830	8,300	5
04688	4-Nitrophenol	100-02-7	8,300	U	8,300	25,000	5
04688	N-Nitroso-di-n-propylamine	621-64-7	830	U	830	8,300	5
04688	N-Nitrosodiphenylamine	86-30-6	830	U	830	8,300	5

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

Sample Description: SL-026-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419497
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 10:35

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL026 SDG#: DE253-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	8,300	U	8,300	25,000	5
04688	Phenol	108-95-2	830	U	830	8,300	5
04688	Pyrene	129-00-0	1,300	J	830	8,300	5
04688	1,2,4-Trichlorobenzene	120-82-1	830	U	830	8,300	5
04688	2,4,5-Trichlorophenol	95-95-4	1,700	U	1,700	8,300	5
04688	2,4,6-Trichlorophenol	88-06-2	1,700	U	1,700	8,300	5
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol						
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	11		0.67	1.7	1
10138	Acenaphthylene	208-96-8	0.48	J	0.33	1.7	1
10138	Anthracene	120-12-7	25		0.33	1.7	1
10138	Benzo(a)anthracene	56-55-3	180		0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	150		0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18	1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18	1
10138	Dibenz(a,h)anthracene	53-70-3	27		0.67	1.7	1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18	1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.0	J	6.0	18	1
10138	Fluorene	86-73-7	6.7		0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	78		0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7	1
10138	Naphthalene	91-20-3	0.99	J	0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18	1
10138	Phenanthrene	85-01-8	99		0.67	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.7	U	1.7	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	5.9		0.63	1.7	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.86	J	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	77	U	77	250	1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250	1
10401	2,4,5-T	93-76-5	0.42		0.083	0.17	1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17	1

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

Sample Description: SL-026-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419497
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 10:35

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL026 SDG#: DE253-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	6.7	U	6.7	17	100
01363	Alpha BHC	319-84-6	3.4	U	3.4	17	100
01363	Beta BHC	319-85-7	6.1	U	6.1	17	100
01363	Gamma BHC - Lindane	58-89-9	3.4	U	3.4	17	100
01363	Chlordane	57-74-9	510	U	510	510	100
01363	p,p-DDD	72-54-8	6.7	U	6.7	34	100
01363	p,p-DDE	72-55-9	270	U	270	270	500
01363	p,p-DDT	50-29-3	33	U	33	170	500
01363	Delta BHC	319-86-8	3.7	U	3.7	17	100
01363	Dieldrin	60-57-1	50	U	50	50	100
01363	Endosulfan I	959-98-8	4.5	U	4.5	17	100
01363	Endosulfan II	33213-65-9	46	U	46	46	100
01363	Endosulfan Sulfate	1031-07-8	6.7	U	6.7	34	100
01363	Endrin	72-20-8	59	U	59	59	100
01363	Endrin Aldehyde	7421-93-4	28	U	28	34	100
01363	Endrin Ketone	53494-70-5	6.7	U	6.7	34	100
01363	Heptachlor	76-44-8	6.1	U	6.1	17	100
01363	Heptachlor Epoxide	1024-57-3	83	U	83	83	100
01363	Methoxychlor	72-43-5	34	U	34	170	100
01363	Mirex	2385-85-5	31	U	31	34	100
01363	Toxaphene	8001-35-2	1,400	U	1,400	1,400	100
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	100	U	100	330	100
10225	Aroclor 5442	12642-23-8	100	U	100	330	100
10225	Aroclor 5460	11126-42-4	100	U	100	330	100
10225	PCB-1016	12674-11-2	33	U	33	170	100
10225	PCB-1221	11104-28-2	33	U	33	170	100
10225	PCB-1232	11141-16-5	33	U	33	170	100
10225	PCB-1242	53469-21-9	33	U	33	170	100
10225	PCB-1248	12672-29-6	33	U	33	170	100
10225	PCB-1254	11097-69-1	1,500		33	170	100
10225	PCB-1260	11096-82-5	40	U	40	170	100
10225	PCB-1262	37324-23-5	33	U	33	170	100
10225	PCB-1268	11100-14-4	33	U	33	170	100
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,970		5.96	19.7	1
07914	Boron	7440-42-8	5.50		0.354	4.92	1

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

Sample Description: SL-026-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419497
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 10:35

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL026 SDG#: DE253-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	3,460		2.46	19.7	1
01654	Iron	7439-89-6	18,300		2.57	19.7	1
01656	Lithium	7439-93-2	13.8		0.61	2.0	1
01657	Magnesium	7439-95-4	4,310		0.433	9.85	1
06958	Manganese	7439-96-5	227		0.0354	0.492	1
10145	Phosphorus	7723-14-0	472		0.345	9.85	1
01662	Potassium	7440-09-7	2,570		11.1	49.2	1
01667	Sodium	7440-23-5	199		5.86	98.5	1
07968	Strontium	7440-24-6	30.7		0.0246	0.492	1
06969	Tin	7440-31-5	2.20	J	0.315	9.85	1
06970	Titanium	7440-32-6	1,100		0.0699	0.985	1
10146	Zirconium	7440-67-7	2.89	J	0.453	4.92	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.102	J	0.0736	0.199	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.27		0.0795	0.398	2
06126	Barium	7440-39-3	101		0.105	0.398	2
06127	Beryllium	7440-41-7	0.275		0.0159	0.0994	2
06128	Cadmium	7440-43-9	0.152		0.0437	0.0994	2
06131	Chromium	7440-47-3	24.8		0.119	0.398	2
06132	Cobalt	7440-48-4	6.30		0.0199	0.0994	2
06133	Copper	7440-50-8	11.9		0.0795	0.398	2
06135	Lead	7439-92-1	12.1		0.0101	0.199	2
06138	Molybdenum	7439-98-7	0.404		0.0497	0.0994	2
06139	Nickel	7440-02-0	20.0		0.0994	0.398	2
06141	Selenium	7782-49-2	0.154	J	0.0577	0.398	2
06142	Silver	7440-22-4	0.0205	J	0.0141	0.0994	2
06145	Thallium	7440-28-0	0.186		0.0298	0.0994	2
06148	Vanadium	7440-62-2	63.9		0.0219	0.0994	2
06149	Zinc	7440-66-6	58.8		0.557	2.98	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0068	U	0.0068	0.0973	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.34	J	0.20	1.0	1

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

Sample Description: SL-026-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419497
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 10:35

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL026 SDG#: DE253-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	6.84	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	1.4	0.50	0.50	1

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11277SLC026	10/06/2011 13:46	Linda M Hartenstine	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLG026	10/10/2011 09:00	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLG026	10/04/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11277SLC026	10/05/2011 07:35	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112770013A	10/06/2011 02:53	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112780013A	10/10/2011 23:41	Melissa McDermott	100
01363	12a Pesticides by 8081A	SW-846 8081A	1	112780013A	10/10/2011 23:55	Melissa McDermott	500
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112740010A	10/04/2011 15:12	Jessica L Miller	100
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112780013A	10/05/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112740010A	10/03/2011 16:15	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112770013A	10/05/2011 02:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112715708001	10/07/2011 08:13	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112715708001	10/07/2011 08:13	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112715708001	10/07/2011 08:13	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112715708001	10/07/2011 08:13	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112715708001	10/07/2011 08:13	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112715708001	10/07/2011 08:13	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112715708001	10/07/2011 08:13	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112715708001	10/07/2011 08:13	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112715708001	10/07/2011 08:13	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112715708001	10/07/2011 08:13	Tara L Snyder	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419497
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 10:35

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL026 SDG#: DE253-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112715708001	10/07/2011 08:13	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112715708001	10/07/2011 08:13	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112715708001	10/07/2011 08:13	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112715708001	10/07/2011 08:13	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112711026001A	09/29/2011 13:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112711026001A	09/29/2011 13:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112711026001D	09/29/2011 13:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112711026001A	09/29/2011 17:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112711026001A	09/29/2011 13:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112711026001A	09/29/2011 13:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112711026001A	09/29/2011 13:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112711026001A	09/29/2011 13:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112711026001A	09/29/2011 13:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112711026001C	09/29/2011 13:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112711026001A	09/29/2011 13:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112711026001B	09/29/2011 13:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112711026001A	09/29/2011 13:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112711026001A	09/29/2011 13:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112711026001A	09/29/2011 13:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112711026001A	09/29/2011 13:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112715711003	09/29/2011 09:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112715708001	09/28/2011 22:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112711026001	09/28/2011 22:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112715711003	09/29/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621201A	10/05/2011 13:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621201A	10/05/2011 17:28	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243201A	10/06/2011 20:08	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621201A	10/03/2011 07:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621201A	10/04/2011 08:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11283039401A	10/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243201A	10/05/2011 13:05	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419498
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:25

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL027 SDG#: DE253-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	840	U	840	2,500	5
04688	Benzidine	92-87-5	5,800	U	5,800	17,000	5
04688	Benzoic acid	65-85-0	840	U	840	2,500	5
04688	Benzyl alcohol	100-51-6	840	U	840	2,500	5
04688	4-Bromophenyl-phenylether	101-55-3	84	U	84	840	5
04688	Carbazole	86-74-8	84	U	84	840	5
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	840	5
04688	4-Chloroaniline	106-47-8	330	U	330	840	5
04688	bis(2-Chloroethoxy)methane	111-91-1	84	U	84	840	5
04688	bis(2-Chloroethyl)ether	111-44-4	84	U	84	840	5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	84	U	84	840	5
04688	2-Chloronaphthalene	91-58-7	84	U	84	840	5
04688	2-Chlorophenol	95-57-8	84	U	84	840	5
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	840	5
04688	Dibenzofuran	132-64-9	84	U	84	840	5
04688	1,2-Dichlorobenzene	95-50-1	84	U	84	840	5
04688	1,3-Dichlorobenzene	541-73-1	84	U	84	840	5
04688	1,4-Dichlorobenzene	106-46-7	84	U	84	840	5
04688	3,3'-Dichlorobenzidine	91-94-1	500	U	500	1,700	5
04688	2,4-Dichlorophenol	120-83-2	84	U	84	840	5
04688	2,4-Dimethylphenol	105-67-9	170	U	170	840	5
04688	3,5-Dimethylphenol	108-68-9	170	U	170	840	5
04688	4,6-Dinitro-2-methylphenol	534-52-1	840	U	840	2,500	5
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,000	5
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	840	5
04688	2,6-Dinitrotoluene	606-20-2	84	U	84	840	5
04688	1,2-Diphenylhydrazine	122-66-7	84	U	84	840	5
04688	Hexachlorobenzene	118-74-1	84	U	84	840	5
04688	Hexachlorobutadiene	87-68-3	330	U	330	840	5
04688	Hexachlorocyclopentadiene	77-47-4	840	U	840	2,500	5
04688	Hexachloroethane	67-72-1	84	U	84	840	5
04688	Isophorone	78-59-1	84	U	84	840	5
04688	2-Methylphenol	95-48-7	170	U	170	840	5
04688	4-Methylphenol	106-44-5	170	U	170	840	5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	84	U	84	840	5
04688	3-Nitroaniline	99-09-2	170	U	170	840	5
04688	4-Nitroaniline	100-01-6	330	U	330	840	5
04688	Nitrobenzene	98-95-3	84	U	84	840	5
04688	2-Nitrophenol	88-75-5	84	U	84	840	5
04688	4-Nitrophenol	100-02-7	840	U	840	2,500	5
04688	N-Nitroso-di-n-propylamine	621-64-7	84	U	84	840	5
04688	N-Nitrosodiphenylamine	86-30-6	84	U	84	840	5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	840	U	840	2,500	5
04688	Phenol	108-95-2	84	U	84	840	5

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

Sample Description: SL-027-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419498
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:25

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL027 SDG#: DE253-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	84	U	84	840	5
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	840	5
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	840	5

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
4,6-dinitro-2-methylphenol

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

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.3	U	3.3	8.4	5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4	5
10138	Anthracene	120-12-7	1.7	U	1.7	8.4	5
10138	Benzo(a)anthracene	56-55-3	3.9	J	3.3	8.4	5
10138	Benzo(a)pyrene	50-32-8	3.3	U	3.3	8.4	5
10138	Benzo(b)fluoranthene	205-99-2	34		3.3	8.4	5
10138	Benzo(g,h,i)perylene	191-24-2	3.3	U	3.3	8.4	5
10138	Benzo(k)fluoranthene	207-08-9	3.3	U	3.3	8.4	5
10138	Butylbenzylphthalate	85-68-7	30	U	30	90	5
10138	Di-n-butylphthalate	84-74-2	30	U	30	90	5
10138	Chrysene	218-01-9	20		1.7	8.4	5
10138	Dibenz(a,h)anthracene	53-70-3	3.3	U	3.3	8.4	5
10138	Diethylphthalate	84-66-2	30	U	30	90	5
10138	Dimethylphthalate	131-11-3	30	U	30	90	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	33	J	30	90	5
10138	Fluoranthene	206-44-0	3.3	U	3.3	8.4	5
10138	Fluorene	86-73-7	3.3	U	3.3	8.4	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.3	U	3.3	8.4	5
10138	1-Methylnaphthalene	90-12-0	3.3	U	3.3	8.4	5
10138	2-Methylnaphthalene	91-57-6	3.3	U	3.3	8.4	5
10138	Naphthalene	91-20-3	3.3	U	3.3	8.4	5
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.4	5
10138	Di-n-octylphthalate	117-84-0	30	U	30	90	5
10138	Phenanthrene	85-01-8	4.5	J	3.3	8.4	5
10138	Pyrene	129-00-0	7.4	J	3.3	8.4	5

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

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	4.7		0.62	1.7	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	77	U	77	250	1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250	1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17	1

Sample Description: SL-027-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419498
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:25

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL027 SDG#: DE253-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.33	U	0.33	0.84	5
01363	Alpha BHC	319-84-6	0.17	U	0.17	0.84	5
01363	Beta BHC	319-85-7	0.30	U	0.30	0.84	5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.84	5
01363	Chlordane	57-74-9	4.0	U	4.0	17	5
01363	p,p-DDD	72-54-8	0.70	U	0.70	1.7	5
01363	p,p-DDE	72-55-9	1.1	J	0.33	1.7	5
01363	p,p-DDT	50-29-3	1.3	J	0.33	1.7	5
01363	Delta BHC	319-86-8	0.18	U	0.18	0.84	5
01363	Dieldrin	60-57-1	0.33	U	0.33	1.7	5
01363	Endosulfan I	959-98-8	0.22	U	0.22	0.84	5
01363	Endosulfan II	33213-65-9	0.33	U	0.33	1.7	5
01363	Endosulfan Sulfate	1031-07-8	0.33	U	0.33	1.7	5
01363	Endrin	72-20-8	0.33	U	0.33	1.7	5
01363	Endrin Aldehyde	7421-93-4	0.41	U	0.41	1.7	5
01363	Endrin Ketone	53494-70-5	0.33	U	0.33	1.7	5
01363	Heptachlor	76-44-8	0.30	U	0.30	0.84	5
01363	Heptachlor Epoxide	1024-57-3	0.17	U	0.17	0.84	5
01363	Methoxychlor	72-43-5	1.9	U	1.9	8.4	5
01363	Mirex	2385-85-5	2.8	U	2.8	2.8	5
01363	Toxaphene	8001-35-2	50	U	50	50	5
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7	1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419498
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:25

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL027 SDG#: DE253-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,800		5.95	19.7	1
07914	Boron	7440-42-8	9.43		0.354	4.91	1
01650	Calcium	7440-70-2	8,000		2.46	19.7	1
01654	Iron	7439-89-6	27,200		12.8	98.3	5
01656	Lithium	7439-93-2	30.5		0.61	2.0	1
01657	Magnesium	7439-95-4	7,140		0.432	9.83	1
06958	Manganese	7439-96-5	317		0.0354	0.491	1
10145	Phosphorus	7723-14-0	655		0.344	9.83	1
01662	Potassium	7440-09-7	3,940		11.1	49.1	1
01667	Sodium	7440-23-5	146		5.85	98.3	1
07968	Strontium	7440-24-6	21.6		0.0246	0.491	1
06969	Tin	7440-31-5	2.63	J	0.314	9.83	1
06970	Titanium	7440-32-6	1,260		0.0698	0.983	1
10146	Zirconium	7440-67-7	7.02		0.452	4.91	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.194	J	0.0734	0.198	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.79		0.0794	0.397	2
06126	Barium	7440-39-3	128		0.105	0.397	2
06127	Beryllium	7440-41-7	0.440		0.0159	0.0992	2
06128	Cadmium	7440-43-9	0.354		0.0437	0.0992	2
06131	Chromium	7440-47-3	44.5		0.119	0.397	2
06132	Cobalt	7440-48-4	10.7		0.0198	0.0992	2
06133	Copper	7440-50-8	14.1		0.0794	0.397	2
06135	Lead	7439-92-1	10.1		0.0101	0.198	2
06138	Molybdenum	7439-98-7	0.413		0.0496	0.0992	2
06139	Nickel	7440-02-0	20.6		0.0992	0.397	2
06141	Selenium	7782-49-2	0.282	J	0.0576	0.397	2
06142	Silver	7440-22-4	0.161		0.0141	0.0992	2
06145	Thallium	7440-28-0	0.367		0.0298	0.0992	2
06148	Vanadium	7440-62-2	95.0		0.0218	0.0992	2
06149	Zinc	7440-66-6	104		0.556	2.98	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069	U	0.0069	0.0988	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.80	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419498
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:25

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL027 SDG#: DE253-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.41	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	1.2	0.50	0.50	1

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11277SLC026	10/06/2011 14:11	Linda M Hartenstine	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLG026	10/11/2011 02:49	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLG026	10/04/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11277SLC026	10/05/2011 07:35	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112770013A	10/06/2011 03:20	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112780013A	10/12/2011 03:04	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112740010A	10/04/2011 15:31	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112780013A	10/05/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112740010A	10/03/2011 16:15	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112770013A	10/05/2011 02:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112715708001	10/07/2011 08:17	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112715708001	10/07/2011 08:17	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112715708001	10/07/2011 08:17	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112715708001	10/07/2011 17:39	John P Hook	5
01656	Lithium	SW-846 6010B	1	112715708001	10/07/2011 08:17	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112715708001	10/07/2011 08:17	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112715708001	10/07/2011 08:17	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112715708001	10/07/2011 08:17	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112715708001	10/07/2011 08:17	Tara L Snyder	1

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

Sample Description: SL-027-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419498
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:25

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

SL027 SDG#: DE253-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	112715708001	10/07/2011 08:17	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112715708001	10/07/2011 08:17	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112715708001	10/07/2011 08:17	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112715708001	10/07/2011 08:17	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112715708001	10/07/2011 08:17	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112711026001A	09/29/2011 13:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112711026001A	09/29/2011 13:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112711026001D	09/29/2011 13:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112711026001A	09/29/2011 17:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112711026001A	09/29/2011 13:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112711026001A	09/29/2011 13:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112711026001A	09/29/2011 13:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112711026001A	09/29/2011 13:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112711026001A	09/29/2011 13:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112711026001C	09/29/2011 13:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112711026001A	09/29/2011 13:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112711026001B	09/29/2011 13:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112711026001A	09/29/2011 13:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112711026001A	09/29/2011 13:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112711026001A	09/29/2011 13:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112711026001A	09/29/2011 13:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112715711003	09/29/2011 09:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112715708001	09/28/2011 22:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112711026001	09/28/2011 22:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112715711003	09/29/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621201A	10/05/2011 13:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621201A	10/05/2011 17:51	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243201A	10/06/2011 20:16	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621201A	10/03/2011 07:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621201A	10/04/2011 08:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11283039401A	10/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243201A	10/05/2011 13:05	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

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Analysis Report

Sample Description: SL-028-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419499
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 10:50

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL028 SDG#: DE253-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300	1
04688	Benzoic acid	65-85-0	170	U	170	500	1
04688	Benzyl alcohol	100-51-6	170	U	170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170	1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500	1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	33	U	33	170	1
04688	4-Methylphenol	106-44-5	33	U	33	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	33	U	33	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	500	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	500	1
04688	Phenol	108-95-2	18	J	17	170	1

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

Sample Description: SL-028-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419499
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 10:50

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL028 SDG#: DE253-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170	1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.66	U	0.66	1.7	1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7	1
10138	Anthracene	120-12-7	0.33	U	0.33	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.80	J	0.66	1.7	1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.66	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	1.8		0.66	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.66	U	0.66	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	J	0.66	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18	1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18	1
10138	Chrysene	218-01-9	1.1	J	0.33	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.66	U	0.66	1.7	1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18	1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.0	U	6.0	18	1
10138	Fluoranthene	206-44-0	0.86	J	0.66	1.7	1
10138	Fluorene	86-73-7	0.66	U	0.66	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.66	U	0.66	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.66	U	0.66	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.66	U	0.66	1.7	1
10138	Naphthalene	91-20-3	0.66	U	0.66	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.66	U	0.66	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18	1
10138	Phenanthrene	85-01-8	0.66	U	0.66	1.7	1
10138	Pyrene	129-00-0	0.82	J	0.66	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0	1
10401	2,4-DB	94-82-6	6.3	U	6.3	6.3	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7	1
10401	MCPA	94-74-6	120	J	76	250	1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250	1
10401	2,4,5-T	93-76-5	0.26		0.082	0.17	1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: SL-028-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419499
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 10:50

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL028 SDG#: DE253-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.33	U	0.33	0.83	5
01363	Alpha BHC	319-84-6	0.17	U	0.17	0.83	5
01363	Beta BHC	319-85-7	0.30	U	0.30	0.83	5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.83	5
01363	Chlordane	57-74-9	10	J	4.0	17	5
01363	p,p-DDD	72-54-8	0.46	U	0.46	1.7	5
01363	p,p-DDE	72-55-9	0.54	U	0.54	1.7	5
01363	p,p-DDT	50-29-3	7.0		0.33	1.7	5
01363	Delta BHC	319-86-8	0.18	U	0.18	0.83	5
01363	Dieldrin	60-57-1	2.1	U	2.1	2.1	5
01363	Endosulfan I	959-98-8	0.22	U	0.22	0.83	5
01363	Endosulfan II	33213-65-9	1.8	U	1.8	1.8	5
01363	Endosulfan Sulfate	1031-07-8	0.33	U	0.33	1.7	5
01363	Endrin	72-20-8	0.33	U	0.33	1.7	5
01363	Endrin Aldehyde	7421-93-4	0.87	U	0.87	1.7	5
01363	Endrin Ketone	53494-70-5	0.33	U	0.33	1.7	5
01363	Heptachlor	76-44-8	0.30	U	0.30	0.83	5
01363	Heptachlor Epoxide	1024-57-3	0.35	U	0.35	0.83	5
01363	Methoxychlor	72-43-5	1.7	U	1.7	8.3	5
01363	Mirex	2385-85-5	1.8	U	1.8	1.8	5
01363	Toxaphene	8001-35-2	60	U	60	60	5
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	1.9		0.33	1.7	1
10225	PCB-1260	11096-82-5	0.98	J	0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,000		5.91	19.5	1
07914	Boron	7440-42-8	7.00		0.351	4.88	1
01650	Calcium	7440-70-2	4,810		2.44	19.5	1
01654	Iron	7439-89-6	25,400		2.55	19.5	1

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

Sample Description: SL-028-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419499
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 10:50

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL028 SDG#: DE253-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	21.4		0.61	2.0	1
01657	Magnesium	7439-95-4	6,320		0.430	9.76	1
06958	Manganese	7439-96-5	293		0.0351	0.488	1
10145	Phosphorus	7723-14-0	739		0.342	9.76	1
01662	Potassium	7440-09-7	4,800		11.0	48.8	1
01667	Sodium	7440-23-5	195		5.81	97.6	1
07968	Strontium	7440-24-6	21.1		0.0244	0.488	1
06969	Tin	7440-31-5	3.05	J	0.312	9.76	1
06970	Titanium	7440-32-6	1,480		0.0693	0.976	1
10146	Zirconium	7440-67-7	2.42	J	0.449	4.88	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.145	J	0.0722	0.195	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	2.80		0.0781	0.391	2
06126	Barium	7440-39-3	140		0.103	0.391	2
06127	Beryllium	7440-41-7	0.243		0.0156	0.0976	2
06128	Cadmium	7440-43-9	0.362		0.0430	0.0976	2
06131	Chromium	7440-47-3	22.5		0.117	0.391	2
06132	Cobalt	7440-48-4	7.43		0.0195	0.0976	2
06133	Copper	7440-50-8	16.5		0.0781	0.391	2
06135	Lead	7439-92-1	28.1		0.010	0.195	2
06138	Molybdenum	7439-98-7	0.384		0.0488	0.0976	2
06139	Nickel	7440-02-0	17.3		0.0976	0.391	2
06141	Selenium	7782-49-2	0.144	J	0.0566	0.391	2
06142	Silver	7440-22-4	0.351		0.0139	0.0976	2
06145	Thallium	7440-28-0	0.244		0.0293	0.0976	2
06148	Vanadium	7440-62-2	62.6		0.0215	0.0976	2
06149	Zinc	7440-66-6	109		0.547	2.93	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0095	J	0.0070	0.0996	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.79	U	0.79	0.99	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38	J	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.10		0.0100	0.0100	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-028-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419499
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 10:50

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL028 SDG#: DE253-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	0.56	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11277SLC026	10/06/2011 14:36	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLG026	10/10/2011 23:36	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLG026	10/04/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11277SLC026	10/05/2011 07:35	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112770013A	10/06/2011 03:48	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112780013A	10/12/2011 03:19	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112740010A	10/04/2011 15:50	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112780013A	10/05/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112740010A	10/03/2011 16:15	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112770013A	10/05/2011 02:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112715708001	10/07/2011 17:43	John P Hook	1
07914	Boron	SW-846 6010B	1	112715708001	10/07/2011 08:21	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112715708001	10/07/2011 17:43	John P Hook	1
01654	Iron	SW-846 6010B	1	112715708001	10/07/2011 17:43	John P Hook	1
01656	Lithium	SW-846 6010B	1	112715708001	10/07/2011 17:43	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112715708001	10/07/2011 17:43	John P Hook	1
06958	Manganese	SW-846 6010B	1	112715708001	10/07/2011 08:21	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112715708001	10/07/2011 08:21	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112715708001	10/07/2011 17:43	John P Hook	1
01667	Sodium	SW-846 6010B	1	112715708001	10/07/2011 17:43	John P Hook	1
07968	Strontium	SW-846 6010B	1	112715708001	10/07/2011 08:21	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112715708001	10/07/2011 08:21	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112715708001	10/07/2011 08:21	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112715708001	10/10/2011 13:55	Eric L Eby	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-028-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419499
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 10:50

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL028 SDG#: DE253-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112711026001A	09/29/2011 13:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112711026001A	09/29/2011 13:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112711026001D	09/29/2011 13:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112711026001A	09/29/2011 17:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112711026001A	09/29/2011 13:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112711026001A	09/29/2011 13:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112711026001A	09/29/2011 13:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112711026001A	09/29/2011 13:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112711026001A	09/29/2011 13:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112711026001C	09/29/2011 13:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112711026001A	09/29/2011 13:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112711026001B	09/29/2011 13:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112711026001A	09/29/2011 13:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112711026001A	09/29/2011 13:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112711026001A	09/29/2011 13:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112711026001A	09/29/2011 13:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112715711003	09/29/2011 09:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112715708001	09/28/2011 22:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112711026001	09/28/2011 22:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112715711003	09/29/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621201A	10/05/2011 13:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621201A	10/05/2011 18:14	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243201A	10/06/2011 20:37	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621201A	10/03/2011 07:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621201A	10/04/2011 08:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11283039401A	10/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243201A	10/05/2011 13:05	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-029-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419500
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:10

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL029 SDG#: DE253-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	18	J	17	170	1

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

Sample Description: SL-029-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419500
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:10

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL029 SDG#: DE253-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
4,6-dinitro-2-methylphenol

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	1.3	J	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	1.9		0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	4.1		0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	1.2	J	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	2.2		0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	6.2	19	1
10138	Fluoranthene	206-44-0	2.9		0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	J	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	7.5	J	6.2	19	1
10138	Phenanthrene	85-01-8	2.3		0.69	1.7	1
10138	Pyrene	129-00-0	2.6		0.69	1.7	1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.3	1
10401	2,4-DB	94-82-6	1.7	J	0.64	1.8	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	79	U	79	260	1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

Sample Description: SL-029-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419500
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:10

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL029 SDG#: DE253-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	3.3	J	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.30	U	0.30	0.35	1
01363	p,p-DDE	72-55-9	2.1	U	2.1	2.1	1
01363	p,p-DDT	50-29-3	3.5	U	3.5	3.5	5
01363	Delta BHC	319-86-8	0.35		0.037	0.17	1
01363	Dieldrin	60-57-1	1.2	U	1.2	1.2	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.36	U	0.36	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1
01363	Endrin	72-20-8	0.45	U	0.45	0.45	1
01363	Endrin Aldehyde	7421-93-4	0.53	U	0.53	0.53	1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35	1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.53	U	0.53	0.53	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.17	U	0.17	0.35	1
01363	Toxaphene	8001-35-2	17	U	17	17	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	15		0.34	1.8	1
10225	PCB-1260	11096-82-5	5.0		0.40	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,200		6.20	20.5	1
07914	Boron	7440-42-8	13.5		0.369	5.12	1
01650	Calcium	7440-70-2	6,510		2.56	20.5	1
01654	Iron	7439-89-6	36,900		13.4	102	5
01656	Lithium	7439-93-2	55.1		0.64	2.0	1

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

Sample Description: SL-029-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419500
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:10

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL029 SDG#: DE253-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	10,200		0.451	10.2	1
06958	Manganese	7439-96-5	345		0.0369	0.512	1
10145	Phosphorus	7723-14-0	503		0.359	10.2	1
01662	Potassium	7440-09-7	5,730		11.6	51.2	1
01667	Sodium	7440-23-5	161		6.10	102	1
07968	Strontium	7440-24-6	28.8		0.0256	0.512	1
06969	Tin	7440-31-5	3.12	J	0.328	10.2	1
06970	Titanium	7440-32-6	1,700		0.0728	1.02	1
10146	Zirconium	7440-67-7	4.39	J	0.471	5.12	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.343		0.0744	0.201	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.36		0.0804	0.402	2
06126	Barium	7440-39-3	143		0.107	0.402	2
06127	Beryllium	7440-41-7	0.635		0.0161	0.101	2
06128	Cadmium	7440-43-9	0.252		0.0442	0.101	2
06131	Chromium	7440-47-3	58.8		0.121	0.402	2
06132	Cobalt	7440-48-4	14.0		0.0201	0.101	2
06133	Copper	7440-50-8	22.4		0.0804	0.402	2
06135	Lead	7439-92-1	15.7		0.0103	0.201	2
06138	Molybdenum	7439-98-7	0.514		0.0503	0.101	2
06139	Nickel	7440-02-0	29.2		0.101	0.402	2
06141	Selenium	7782-49-2	0.412		0.0583	0.402	2
06142	Silver	7440-22-4	0.0472	J	0.0143	0.101	2
06145	Thallium	7440-28-0	0.539		0.0302	0.101	2
06148	Vanadium	7440-62-2	118		0.0221	0.101	2
06149	Zinc	7440-66-6	116		0.563	3.02	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076	J	0.0068	0.0964	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.81	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.4		0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.90		0.0100	0.0100	1

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

Sample Description: SL-029-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419500
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:10

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL029 SDG#: DE253-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	3.4	0.50	0.50	1

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11277SLC026	10/06/2011 15:01	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLG026	10/11/2011 00:08	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLG026	10/04/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11277SLC026	10/05/2011 07:35	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112770013A	10/06/2011 04:15	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112780013A	10/10/2011 22:18	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112780013A	10/10/2011 22:32	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112740010A	10/04/2011 16:09	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112780013A	10/05/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112740010A	10/03/2011 16:15	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112770013A	10/05/2011 02:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112715708001	10/07/2011 17:50	John P Hook	1
07914	Boron	SW-846 6010B	1	112715708001	10/07/2011 08:25	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112715708001	10/07/2011 17:50	John P Hook	1
01654	Iron	SW-846 6010B	1	112715708001	10/07/2011 17:54	John P Hook	5
01656	Lithium	SW-846 6010B	1	112715708001	10/07/2011 17:50	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112715708001	10/07/2011 17:50	John P Hook	1
06958	Manganese	SW-846 6010B	1	112715708001	10/07/2011 08:25	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112715708001	10/07/2011 08:25	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112715708001	10/07/2011 17:50	John P Hook	1
01667	Sodium	SW-846 6010B	1	112715708001	10/07/2011 17:50	John P Hook	1
07968	Strontium	SW-846 6010B	1	112715708001	10/07/2011 08:25	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112715708001	10/07/2011 08:25	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112715708001	10/07/2011 08:25	Tara L Snyder	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-029-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419500
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:10

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL029 SDG#: DE253-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112715708001	10/10/2011 13:59	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112711026001A	09/29/2011 13:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112711026001A	09/29/2011 13:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112711026001D	09/29/2011 13:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112711026001A	09/29/2011 17:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112711026001A	09/29/2011 13:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112711026001A	09/29/2011 13:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112711026001A	09/29/2011 13:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112711026001A	09/29/2011 13:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112711026001A	09/29/2011 13:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112711026001C	09/29/2011 13:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112711026001A	09/29/2011 13:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112711026001B	09/29/2011 13:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112711026001A	09/29/2011 13:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112711026001A	09/29/2011 13:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112711026001A	09/29/2011 13:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112711026001A	09/29/2011 13:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112715711003	09/29/2011 09:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112715708001	09/28/2011 22:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112711026001	09/28/2011 22:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112715711003	09/29/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621201A	10/05/2011 14:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621201A	10/05/2011 18:37	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243201A	10/06/2011 20:44	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621201A	10/03/2011 07:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621201A	10/04/2011 08:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11283039401A	10/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243201A	10/05/2011 13:05	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-030-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419501
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:25

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL030 SDG#: DE253-09

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-030-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419501
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:25

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL030 SDG#: DE253-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
4,6-dinitro-2-methylphenol

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7	1
10138	Acenaphthylene	208-96-8	2.9		0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	10		0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	3.5		0.67	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	19		0.67	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	200		6.1	18	1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18	1
10138	Chrysene	218-01-9	4.4		0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.1	18	1
10138	Fluoranthene	206-44-0	2.6		0.67	1.7	1
10138	Fluorene	86-73-7	3.5		0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.94	J	0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7	1
10138	Naphthalene	91-20-3	0.99	J	0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	25		6.1	18	1
10138	Phenanthrene	85-01-8	1.4	J	0.67	1.7	1
10138	Pyrene	129-00-0	2.3		0.67	1.7	1

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2	1
10401	2,4-DB	94-82-6	0.84	U	0.84	1.7	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7	1
10401	MCPA	94-74-6	78	U	78	260	1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260	1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17	1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17	1

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

Sample Description: SL-030-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419501
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:25

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL030 SDG#: DE253-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.090	J	0.035	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.18		0.035	0.17	1
01363	Chlordane	57-74-9	3.4	J	0.82	3.5	1
01363	p,p-DDD	72-54-8	0.29	U	0.29	0.35	1
01363	p,p-DDE	72-55-9	0.86		0.090	0.35	1
01363	p,p-DDT	50-29-3	0.60	U	0.60	0.60	1
01363	Delta BHC	319-86-8	0.073	U	0.073	0.17	1
01363	Dieldrin	60-57-1	0.17	U	0.17	0.35	1
01363	Endosulfan I	959-98-8	0.089	J	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.40		0.067	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35	1
01363	Endrin	72-20-8	0.25	U	0.25	0.35	1
01363	Endrin Aldehyde	7421-93-4	1.5	U	1.5	1.5	1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35	1
01363	Heptachlor	76-44-8	0.15	U	0.15	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.13	U	0.13	0.17	1
01363	Methoxychlor	72-43-5	0.99	U	0.99	1.7	1
01363	Mirex	2385-85-5	0.067	U	0.067	0.35	1
01363	Toxaphene	8001-35-2	42	U	42	42	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	2.3		0.34	1.7	1
10225	PCB-1260	11096-82-5	1.3	J	0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,100		6.12	20.2	1
07914	Boron	7440-42-8	17.3		0.364	5.06	1

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

Sample Description: SL-030-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419501
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:25

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL030 SDG#: DE253-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	8,470		2.53	20.2	1
01654	Iron	7439-89-6	34,100		13.2	101	5
01656	Lithium	7439-93-2	47.1		0.63	2.0	1
01657	Magnesium	7439-95-4	9,090		0.445	10.1	1
06958	Manganese	7439-96-5	377		0.0364	0.506	1
10145	Phosphorus	7723-14-0	677		0.354	10.1	1
01662	Potassium	7440-09-7	7,340		11.4	50.6	1
01667	Sodium	7440-23-5	146		6.02	101	1
07968	Strontium	7440-24-6	35.9		0.0253	0.506	1
06969	Tin	7440-31-5	3.08	J	0.324	10.1	1
06970	Titanium	7440-32-6	1,670		0.0719	1.01	1
10146	Zirconium	7440-67-7	3.54	J	0.466	5.06	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.182	J	0.0749	0.202	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.83		0.0810	0.405	2
06126	Barium	7440-39-3	180		0.107	0.405	2
06127	Beryllium	7440-41-7	0.576		0.0162	0.101	2
06128	Cadmium	7440-43-9	0.283		0.0445	0.101	2
06131	Chromium	7440-47-3	68.5		0.121	0.405	2
06132	Cobalt	7440-48-4	16.8		0.0202	0.101	2
06133	Copper	7440-50-8	25.6		0.0810	0.405	2
06135	Lead	7439-92-1	17.8		0.0103	0.202	2
06138	Molybdenum	7439-98-7	0.651		0.0506	0.101	2
06139	Nickel	7440-02-0	34.2		0.101	0.405	2
06141	Selenium	7782-49-2	0.483		0.0587	0.405	2
06142	Silver	7440-22-4	0.0488	J	0.0144	0.101	2
06145	Thallium	7440-28-0	0.616		0.0304	0.101	2
06148	Vanadium	7440-62-2	136		0.0223	0.101	2
06149	Zinc	7440-66-6	138		0.567	3.04	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0145	J	0.0070	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.83	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0	1

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

Sample Description: SL-030-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419501
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:25

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL030 SDG#: DE253-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.08	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.2	0.50	0.50	1

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11277SLC026	10/06/2011 15:26	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLG026	10/10/2011 11:10	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLG026	10/04/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11277SLC026	10/05/2011 07:35	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112770013A	10/06/2011 04:43	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112780013A	10/10/2011 17:09	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112740010A	10/04/2011 16:28	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112780013A	10/05/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112740010A	10/03/2011 16:15	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112770013A	10/05/2011 02:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112715708001	10/07/2011 17:58	John P Hook	1
07914	Boron	SW-846 6010B	1	112715708001	10/07/2011 08:29	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112715708001	10/07/2011 17:58	John P Hook	1
01654	Iron	SW-846 6010B	1	112715708001	10/07/2011 18:02	John P Hook	5
01656	Lithium	SW-846 6010B	1	112715708001	10/07/2011 17:58	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112715708001	10/07/2011 17:58	John P Hook	1
06958	Manganese	SW-846 6010B	1	112715708001	10/07/2011 08:29	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112715708001	10/07/2011 08:29	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112715708001	10/07/2011 17:58	John P Hook	1
01667	Sodium	SW-846 6010B	1	112715708001	10/07/2011 17:58	John P Hook	1
07968	Strontium	SW-846 6010B	1	112715708001	10/07/2011 08:29	Tara L Snyder	1

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

Sample Description: SL-030-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419501
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:25

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL030 SDG#: DE253-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112715708001	10/07/2011 08:29	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112715708001	10/07/2011 08:29	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112715708001	10/10/2011 14:03	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112711026001A	10/04/2011 05:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112711026001A	09/29/2011 13:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112711026001D	09/29/2011 13:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112711026001A	09/29/2011 17:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112711026001A	09/29/2011 13:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112711026001A	09/29/2011 13:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112711026001A	09/29/2011 13:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112711026001A	09/29/2011 13:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112711026001A	09/29/2011 13:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112711026001C	09/29/2011 13:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112711026001A	09/29/2011 13:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112711026001B	09/29/2011 13:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112711026001A	09/29/2011 13:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112711026001A	09/29/2011 13:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112711026001A	09/29/2011 13:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112711026001A	09/29/2011 13:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112715711003	09/29/2011 09:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112715708001	09/28/2011 22:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112711026001	09/28/2011 22:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112715711003	09/29/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621201A	10/05/2011 14:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621201A	10/05/2011 19:01	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243201A	10/06/2011 20:59	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621201A	10/03/2011 07:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621201A	10/04/2011 08:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11283039401B	10/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243201A	10/05/2011 13:05	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-031-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419502
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:50

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL031 SDG#: DE253-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	J	17	340	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1

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

Sample Description: SL-031-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419502
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:50

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL031 SDG#: DE253-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	J	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
4,6-dinitro-2-methylphenol

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.3	1
10401	2,4-DB	94-82-6	3.2		0.64	1.8	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	170	U	170	260	1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

Sample Description: SL-031-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419502
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:50

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL031 SDG#: DE253-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	6.2		0.83	3.5	1
01363	p,p-DDD	72-54-8	0.42	U	0.42	0.42	1
01363	p,p-DDE	72-55-9	2.2		0.068	0.35	1
01363	p,p-DDT	50-29-3	2.9		0.068	0.35	1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17	1
01363	Dieldrin	60-57-1	0.16	U	0.16	0.35	1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.17	1
01363	Endosulfan II	33213-65-9	0.068	U	0.068	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1
01363	Endrin	72-20-8	0.068	U	0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.73		0.068	0.35	1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35	1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.17	U	0.17	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.19	U	0.19	0.35	1
01363	Toxaphene	8001-35-2	10		2.3	6.8	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	2.4		0.34	1.8	1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,200		6.26	20.7	1
07914	Boron	7440-42-8	14.0		0.373	5.18	1
01650	Calcium	7440-70-2	6,570		2.59	20.7	1
01654	Iron	7439-89-6	39,000		13.5	104	5

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

Sample Description: SL-031-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419502
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:50

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL031 SDG#: DE253-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	45.2		0.64	2.1	1
01657	Magnesium	7439-95-4	9,660		0.455	10.4	1
06958	Manganese	7439-96-5	361		0.0373	0.518	1
10145	Phosphorus	7723-14-0	528		0.362	10.4	1
01662	Potassium	7440-09-7	6,660		11.7	51.8	1
01667	Sodium	7440-23-5	135		6.16	104	1
07968	Strontium	7440-24-6	34.5		0.0259	0.518	1
06969	Tin	7440-31-5	3.21	J	0.331	10.4	1
06970	Titanium	7440-32-6	1,710		0.0735	1.04	1
10146	Zirconium	7440-67-7	5.13	J	0.476	5.18	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.341		0.0751	0.203	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.83		0.0812	0.406	2
06126	Barium	7440-39-3	151		0.108	0.406	2
06127	Beryllium	7440-41-7	0.693		0.0162	0.101	2
06128	Cadmium	7440-43-9	0.268		0.0447	0.101	2
06131	Chromium	7440-47-3	55.5		0.122	0.406	2
06132	Cobalt	7440-48-4	14.0		0.0203	0.101	2
06133	Copper	7440-50-8	24.8		0.0812	0.406	2
06135	Lead	7439-92-1	32.3		0.0104	0.203	2
06138	Molybdenum	7439-98-7	0.664		0.0507	0.101	2
06139	Nickel	7440-02-0	28.6		0.101	0.406	2
06141	Selenium	7782-49-2	0.510		0.0589	0.406	2
06142	Silver	7440-22-4	0.0554	J	0.0144	0.101	2
06145	Thallium	7440-28-0	0.526		0.0304	0.101	2
06148	Vanadium	7440-62-2	111		0.0223	0.101	2
06149	Zinc	7440-66-6	138		0.568	3.04	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0130	J	0.0070	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.82	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38	J	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.96		0.0100	0.0100	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-031-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419502
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:50

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL031 SDG#: DE253-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	3.4	0.50	0.50	1

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11277SLC026	10/06/2011 15:51	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLG026	10/11/2011 01:12	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLG026	10/04/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11277SLC026	10/05/2011 07:35	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112770013A	10/06/2011 05:10	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112780013A	10/10/2011 17:23	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112740010A	10/04/2011 16:46	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112780013A	10/05/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112740010A	10/03/2011 16:15	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112770013A	10/05/2011 02:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112715708001	10/07/2011 18:16	John P Hook	1
07914	Boron	SW-846 6010B	1	112715708001	10/07/2011 08:33	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112715708001	10/07/2011 18:16	John P Hook	1
01654	Iron	SW-846 6010B	1	112715708001	10/07/2011 18:05	John P Hook	5
01656	Lithium	SW-846 6010B	1	112715708001	10/07/2011 18:16	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112715708001	10/07/2011 18:16	John P Hook	1
06958	Manganese	SW-846 6010B	1	112715708001	10/07/2011 08:33	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112715708001	10/07/2011 08:33	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112715708001	10/07/2011 18:16	John P Hook	1
01667	Sodium	SW-846 6010B	1	112715708001	10/07/2011 18:16	John P Hook	1
07968	Strontium	SW-846 6010B	1	112715708001	10/07/2011 08:33	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112715708001	10/07/2011 08:33	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112715708001	10/07/2011 08:33	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112715708001	10/10/2011 14:07	Eric L Eby	1

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

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Analysis Report

Sample Description: SL-031-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419502
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:50

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL031 SDG#: DE253-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112711026001A	09/29/2011 13:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112711026001A	09/29/2011 13:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112711026001D	09/29/2011 13:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112711026001A	09/29/2011 17:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112711026001A	09/29/2011 13:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112711026001A	09/29/2011 13:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112711026001A	09/29/2011 13:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112711026001A	09/29/2011 13:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112711026001A	09/29/2011 13:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112711026001C	09/29/2011 13:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112711026001A	09/29/2011 13:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112711026001B	09/29/2011 13:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112711026001A	09/29/2011 13:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112711026001A	09/29/2011 13:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112711026001A	09/29/2011 13:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112711026001A	09/29/2011 13:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112715711003	09/29/2011 09:38	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112715708001	09/28/2011 22:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112711026001	09/28/2011 22:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112715711003	09/29/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621201A	10/05/2011 14:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621201B	10/05/2011 20:56	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243201A	10/06/2011 21:13	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621201A	10/03/2011 07:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621201B	10/04/2011 08:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11283039401B	10/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243201A	10/05/2011 13:05	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-032-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419503
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:10

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL032 SDG#: DE253-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	18	J	17	170	1

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

Sample Description: SL-032-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419503
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:10

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL032 SDG#: DE253-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
4,6-dinitro-2-methylphenol

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.57	J	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	6.7		0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	6.8		0.67	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	20		0.67	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J	0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	18		6.1	18	1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18	1
10138	Chrysene	218-01-9	8.5		0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	66		6.1	18	1
10138	Fluoranthene	206-44-0	12		0.67	1.7	1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.4	J	0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.84	J	0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.81	J	0.67	1.7	1
10138	Naphthalene	91-20-3	1.5	J	0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	9.6	J	6.1	18	1
10138	Phenanthrene	85-01-8	2.8		0.67	1.7	1
10138	Pyrene	129-00-0	12		0.67	1.7	1

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2	1
10401	2,4-DB	94-82-6	1.7	J	0.63	1.7	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7	1
10401	MCPA	94-74-6	92	U	92	260	1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260	1
10401	2,4,5-T	93-76-5	0.15	J	0.084	0.17	1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17	1

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

Sample Description: SL-032-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419503
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:10

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL032 SDG#: DE253-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.057	J	0.035	0.17	1
01363	Chlordane	57-74-9	2.6	J	0.82	3.5	1
01363	p,p-DDD	72-54-8	0.30	U	0.30	0.35	1
01363	p,p-DDE	72-55-9	1.2		0.067	0.35	1
01363	p,p-DDT	50-29-3	0.94	U	0.94	0.94	1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17	1
01363	Dieldrin	60-57-1	0.20	U	0.20	0.35	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35	1
01363	Endrin	72-20-8	0.067	U	0.067	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.46		0.067	0.35	1
01363	Endrin Ketone	53494-70-5	0.34	U	0.34	0.35	1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.10	U	0.10	0.17	1
01363	Methoxychlor	72-43-5	0.81	J	0.35	1.7	1
01363	Mirex	2385-85-5	0.15	U	0.15	0.35	1
01363	Toxaphene	8001-35-2	10	U	10	10	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	7.9		0.34	1.7	1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,500		6.19	20.4	1
07914	Boron	7440-42-8	15.9		0.368	5.11	1

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

Sample Description: SL-032-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419503
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:10

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL032 SDG#: DE253-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	15,900		2.56	20.4	1
01654	Iron	7439-89-6	33,500		13.3	102	5
01656	Lithium	7439-93-2	40.6		0.63	2.0	1
01657	Magnesium	7439-95-4	8,580		0.450	10.2	1
06958	Manganese	7439-96-5	371		0.0368	0.511	1
10145	Phosphorus	7723-14-0	571		0.358	10.2	1
01662	Potassium	7440-09-7	6,450		11.6	51.1	1
01667	Sodium	7440-23-5	136		6.08	102	1
07968	Strontium	7440-24-6	51.6		0.0256	0.511	1
06969	Tin	7440-31-5	3.07	J	0.327	10.2	1
06970	Titanium	7440-32-6	1,520		0.0726	1.02	1
10146	Zirconium	7440-67-7	2.88	J	0.470	5.11	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.317		0.0749	0.202	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.40		0.0810	0.405	2
06126	Barium	7440-39-3	146		0.107	0.405	2
06127	Beryllium	7440-41-7	0.621		0.0162	0.101	2
06128	Cadmium	7440-43-9	0.282		0.0445	0.101	2
06131	Chromium	7440-47-3	47.7		0.121	0.405	2
06132	Cobalt	7440-48-4	12.6		0.0202	0.101	2
06133	Copper	7440-50-8	20.1		0.0810	0.405	2
06135	Lead	7439-92-1	15.3		0.0103	0.202	2
06138	Molybdenum	7439-98-7	0.794		0.0506	0.101	2
06139	Nickel	7440-02-0	26.2		0.101	0.405	2
06141	Selenium	7782-49-2	0.515		0.0587	0.405	2
06142	Silver	7440-22-4	0.0435	J	0.0144	0.101	2
06145	Thallium	7440-28-0	0.474		0.0304	0.101	2
06148	Vanadium	7440-62-2	97.5		0.0223	0.101	2
06149	Zinc	7440-66-6	101		0.567	3.04	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.83	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.20	1.0	1

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

Sample Description: SL-032-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419503
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:10

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL032 SDG#: DE253-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.30	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.2	0.50	0.50	1

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11277SLC026	10/06/2011 16:16	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLG026	10/10/2011 12:15	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLG026	10/04/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11277SLC026	10/05/2011 07:35	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112770013A	10/06/2011 05:38	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112780013A	10/10/2011 16:54	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112740010A	10/04/2011 17:05	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112780013A	10/05/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112740010A	10/03/2011 16:15	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112770013A	10/05/2011 02:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112715708001	10/07/2011 18:21	John P Hook	1
07914	Boron	SW-846 6010B	1	112715708001	10/07/2011 08:37	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112715708001	10/07/2011 18:21	John P Hook	1
01654	Iron	SW-846 6010B	1	112715708001	10/07/2011 18:25	John P Hook	5
01656	Lithium	SW-846 6010B	1	112715708001	10/07/2011 18:21	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112715708001	10/07/2011 18:21	John P Hook	1
06958	Manganese	SW-846 6010B	1	112715708001	10/07/2011 08:37	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112715708001	10/07/2011 08:37	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112715708001	10/07/2011 18:21	John P Hook	1
01667	Sodium	SW-846 6010B	1	112715708001	10/07/2011 18:21	John P Hook	1
07968	Strontium	SW-846 6010B	1	112715708001	10/07/2011 08:37	Tara L Snyder	1

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

Sample Description: SL-032-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419503
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:10

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

SL032 SDG#: DE253-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112715708001	10/07/2011 08:37	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112715708001	10/07/2011 08:37	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112715708001	10/10/2011 14:11	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112711026001A	09/29/2011 13:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112711026001A	09/29/2011 13:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112711026001D	09/29/2011 13:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112711026001A	09/29/2011 17:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112711026001A	09/29/2011 13:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112711026001A	09/29/2011 13:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112711026001A	09/29/2011 13:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112711026001A	09/29/2011 13:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112711026001A	09/29/2011 13:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112711026001C	09/29/2011 13:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112711026001A	09/29/2011 13:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112711026001B	09/29/2011 13:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112711026001A	09/29/2011 13:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112711026001A	09/29/2011 13:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112711026001A	09/29/2011 13:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112711026001A	09/29/2011 13:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112715711003	09/29/2011 09:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112715708001	09/28/2011 22:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112711026001	09/28/2011 22:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112715711003	09/29/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621201B	10/05/2011 14:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621201B	10/05/2011 21:19	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243201A	10/06/2011 21:35	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621201B	10/03/2011 07:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621201B	10/04/2011 08:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11283039401B	10/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243201A	10/05/2011 13:05	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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

Analysis Report

Sample Description: DUP01-SA5DS-QC-092611 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA5DS-QC-092611

LLI Sample # SW 6419504
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:10

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

DUP01 SDG#: DE253-12FD

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

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

Sample Description: DUP01-SA5DS-QC-092611 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA5DS-QC-092611

LLI Sample # SW 6419504
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:10

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

DUP01 SDG#: DE253-12FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	J	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170	1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
4,6-dinitro-2-methylphenol

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7	1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7	1
10138	Anthracene	120-12-7	0.33	U	0.33	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	1.1	J	0.67	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18	1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18	1
10138	Chrysene	218-01-9	0.75	J	0.33	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7	1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18	1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18	1
10138	Fluoranthene	206-44-0	0.67	U	0.67	1.7	1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7	1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18	1
10138	Phenanthrene	85-01-8	0.67	U	0.67	1.7	1
10138	Pyrene	129-00-0	0.67	U	0.67	1.7	1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0	1
10401	2,4-DB	94-82-6	0.62	U	0.62	1.7	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7	1
10401	MCPA	94-74-6	110	U	110	250	1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250	1
10401	2,4,5-T	93-76-5	0.43	U	0.43	0.43	1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

Sample Description: DUP01-SA5DS-QC-092611 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA5DS-QC-092611

LLI Sample # SW 6419504
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:10

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

DUP01 SDG#: DE253-12FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.049	U	0.049	0.17	1
01363	Chlordane	57-74-9	5.3		0.81	3.4	1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34	1
01363	p,p-DDE	72-55-9	0.70		0.066	0.34	1
01363	p,p-DDT	50-29-3	1.5		0.066	0.34	1
01363	Delta BHC	319-86-8	0.48		0.036	0.17	1
01363	Dieldrin	60-57-1	0.17	U	0.17	0.34	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.28	U	0.28	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.34	1
01363	Endrin	72-20-8	0.12	U	0.12	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.51		0.066	0.34	1
01363	Endrin Ketone	53494-70-5	0.34	U	0.34	0.34	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.13	U	0.13	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.19	U	0.19	0.34	1
01363	Toxaphene	8001-35-2	13	U	13	13	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	7.4		1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	4.9		0.33	1.7	1
10225	PCB-1260	11096-82-5	5.9		0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,200		5.97	19.8	1
07914	Boron	7440-42-8	6.86		0.356	4.94	1
01650	Calcium	7440-70-2	5,090		2.47	19.8	1
01654	Iron	7439-89-6	23,700		2.58	19.8	1

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

Sample Description: DUP01-SA5DS-QC-092611 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA5DS-QC-092611

LLI Sample # SW 6419504
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:10

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

DUP01 SDG#: DE253-12FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	18.2		0.61	2.0	1
01657	Magnesium	7439-95-4	5,790		0.435	9.88	1
06958	Manganese	7439-96-5	308		0.0356	0.494	1
10145	Phosphorus	7723-14-0	879		0.346	9.88	1
01662	Potassium	7440-09-7	1,630		11.2	49.4	1
01667	Sodium	7440-23-5	109		5.88	98.8	1
07968	Strontium	7440-24-6	22.4		0.0247	0.494	1
06969	Tin	7440-31-5	2.90	J	0.316	9.88	1
06970	Titanium	7440-32-6	1,160		0.0701	0.988	1
10146	Zirconium	7440-67-7	8.12		0.454	4.94	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.430		0.0745	0.201	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.99		0.0806	0.403	2
06126	Barium	7440-39-3	98.1		0.107	0.403	2
06127	Beryllium	7440-41-7	0.397		0.0161	0.101	2
06128	Cadmium	7440-43-9	0.351		0.0443	0.101	2
06131	Chromium	7440-47-3	63.1		0.121	0.403	2
06132	Cobalt	7440-48-4	11.7		0.0201	0.101	2
06133	Copper	7440-50-8	8.84		0.0806	0.403	2
06135	Lead	7439-92-1	48.0		0.0103	0.201	2
06138	Molybdenum	7439-98-7	0.906		0.0504	0.101	2
06139	Nickel	7440-02-0	19.4		0.101	0.403	2
06141	Selenium	7782-49-2	0.275	J	0.0584	0.403	2
06142	Silver	7440-22-4	0.0541	J	0.0143	0.101	2
06145	Thallium	7440-28-0	0.197		0.0302	0.101	2
06148	Vanadium	7440-62-2	118		0.0222	0.101	2
06149	Zinc	7440-66-6	82.3		0.564	3.02	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0115	J	0.0066	0.0943	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.82	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.51		0.0100	0.0100	1

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

Sample Description: DUP01-SA5DS-QC-092611 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA5DS-QC-092611

LLI Sample # SW 6419504
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:10

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

DUP01 SDG#: DE253-12FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	0.73	0.50	0.50	1

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11277SLC026	10/06/2011 16:40	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLG026	10/11/2011 02:16	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLG026	10/04/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11277SLC026	10/05/2011 07:35	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112770013A	10/06/2011 06:05	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112780013A	10/10/2011 21:49	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112740010A	10/04/2011 18:39	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112780013A	10/05/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112740010A	10/03/2011 16:15	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112770013A	10/05/2011 02:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112715708001	10/07/2011 18:28	John P Hook	1
07914	Boron	SW-846 6010B	1	112715708001	10/07/2011 08:41	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112715708001	10/07/2011 18:28	John P Hook	1
01654	Iron	SW-846 6010B	1	112715708001	10/07/2011 18:28	John P Hook	1
01656	Lithium	SW-846 6010B	1	112715708001	10/07/2011 18:28	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112715708001	10/07/2011 18:28	John P Hook	1
06958	Manganese	SW-846 6010B	1	112715708001	10/07/2011 08:41	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112715708001	10/07/2011 08:41	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112715708001	10/07/2011 18:28	John P Hook	1
01667	Sodium	SW-846 6010B	1	112715708001	10/07/2011 18:28	John P Hook	1
07968	Strontium	SW-846 6010B	1	112715708001	10/07/2011 08:41	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112715708001	10/07/2011 08:41	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112715708001	10/07/2011 08:41	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112715708001	10/10/2011 14:16	Eric L Eby	1

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

Sample Description: DUP01-SA5DS-QC-092611 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA5DS-QC-092611

LLI Sample # SW 6419504
LLI Group # 1268378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:10

Submitted: 09/27/2011 09:00
Reported: 10/20/2011 12:55

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

DUP01 SDG#: DE253-12FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112711026001A	09/29/2011 13:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112711026001A	09/29/2011 13:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112711026001D	09/29/2011 13:30	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112711026001A	09/29/2011 17:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112711026001A	09/29/2011 13:30	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112711026001A	09/29/2011 13:30	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112711026001A	09/29/2011 13:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112711026001A	09/29/2011 13:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112711026001A	09/29/2011 13:30	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112711026001C	09/29/2011 13:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112711026001A	09/29/2011 13:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112711026001B	09/29/2011 13:30	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112711026001A	09/29/2011 13:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112711026001A	09/29/2011 13:30	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112711026001A	09/29/2011 13:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112711026001A	09/29/2011 13:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112715711003	09/29/2011 09:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112715708001	09/28/2011 22:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112711026001	09/28/2011 22:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112715711003	09/29/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621201B	10/05/2011 15:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621201B	10/05/2011 21:42	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243201A	10/06/2011 21:42	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621201B	10/03/2011 07:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621201B	10/04/2011 08:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11283039401B	10/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243201A	10/05/2011 13:05	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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

Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268378
Reported: 10/20/11 at 12:55 PM

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

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11274SLG026	Sample number(s): 6419488-6419493,6419497-6419504									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	97		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	89		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	94		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	96		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	98		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	106		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	101		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	102		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	103		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	106		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	97		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	103		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	97		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	98		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	105		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	100		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	97		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	101		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	85		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	85		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	86		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	79		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	109		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	90		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	93		72-119		
Batch number: 11277SLC026	Sample number(s): 6419488-6419493,6419497-6419504									
Acenaphthene	17	U	17.	170	ug/kg	99		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	105		75-122		
Aniline	170 U		170.	500	ug/kg	62		20-115		
Anthracene	17	U	17.	170	ug/kg	106		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	45		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	107		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	107		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	115		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	116		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	99		67-125		
Benzoic acid	170 U		170.	500	ug/kg	68		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	88		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	96		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	109		75-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268378
Reported: 10/20/11 at 12:55 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Di-n-butylphthalate	17	U	17.	170	ug/kg	104		79-112		
Carbazole	17	U	17.	170	ug/kg	106		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	99		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	57		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	92		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	79		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	95		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	91		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	89		74-115		
Chrysene	17	U	17.	170	ug/kg	105		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	116		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	95		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	81		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	81		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	76		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	62		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	95		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	99		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	97		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	100		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	96		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	43*		46-120		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	19		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	106		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	103		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	107		75-117		
Fluoranthene	17	U	17.	170	ug/kg	109		78-116		
Fluorene	17	U	17.	170	ug/kg	99		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	81		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	78		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	80		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	117		64-119		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	88		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	94		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	90		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	86		66-117		
Naphthalene	17	U	17.	170	ug/kg	91		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	94		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	90		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	73		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	96		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	98		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	90		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	80		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	81		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	104		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	100		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	80		51-117		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268378
Reported: 10/20/11 at 12:55 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phenanthrene	17	U	17.	170	ug/kg	102		77-113		
Phenol	17	U	17.	170	ug/kg	86		58-112		
Pyrene	17	U	17.	170	ug/kg	102		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	86		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	101		78-111		
Batch number: 112770013A	Sample number(s): 6419488-6419493,6419495-6419504									
2,4-D	1.2	U	1.2	3.6	ug/kg	109		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	71		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	95		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	88		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	9*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	113		62-170		
MCPA	76	U	76.	250	ug/kg	80		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	72		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	101		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	88		68-114		
Batch number: 112740010A	Sample number(s): 6419488-6419493,6419495-6419504									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	69	73	36-106	5	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	84		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	95		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112780013A	Sample number(s): 6419488-6419493,6419495-6419504									
Aldrin	0.066	U	0.066	0.17	ug/kg	88		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	79		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	106		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	91		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	136		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	135		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	120		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	113		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	112		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	76		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	105		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	129		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	110		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	103		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	117		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	91		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	103		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	120		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112711026001A	Sample number(s): 6419488-6419494,6419497-6419504									
Antimony	0.0740	U	0.0740	0.200	mg/kg	101		10-224		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268378
Reported: 10/20/11 at 12:55 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Arsenic	0.0800	U	0.0800	0.400	mg/kg	104		78-122		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	103		80-120		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	105		81-119		
Chromium	0.120	U	0.120	0.400	mg/kg	113		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	99		80-119		
Copper	0.0800	U	0.0800	0.400	mg/kg	101		78-122		
Lead	0.0102	U	0.0102	0.200	mg/kg	106		77-123		
Nickel	0.100	U	0.100	0.400	mg/kg	108		80-120		
Silver	0.0142	U	0.0142	0.100	mg/kg	106		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	107		75-124		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	114		76-124		
Zinc	0.560	U	0.560	3.00	mg/kg	107		79-121		
Batch number: 112711026001B	Sample number(s): 6419488-6419494,6419497-6419504									
Selenium	0.0580	U	0.0580	0.400	mg/kg	109		77-123		
Batch number: 112711026001C	Sample number(s): 6419488-6419494,6419497-6419504									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	109		76-123		
Batch number: 112711026001D	Sample number(s): 6419488-6419494,6419497-6419504									
Barium	0.106	U	0.106	0.400	mg/kg	106		80-120		
Batch number: 112715708001	Sample number(s): 6419488-6419494,6419497-6419504									
Aluminum	8.80	J	6.05	20.0	mg/kg	143		42-158		
Boron	0.527	J	0.360	5.00	mg/kg	106		66-134		
Calcium	7.97	J	2.50	20.0	mg/kg	105		79-121		
Iron	12.9	J	2.61	20.0	mg/kg	140		51-149		
Lithium	0.62	U	0.62	2.0	mg/kg	102		80-120		
Magnesium	1.96	J	0.440	10.0	mg/kg	122		64-136		
Manganese	0.0430	J	0.0360	0.500	mg/kg	102		78-122		
Phosphorus	1.09	J	0.350	10.0	mg/kg	104		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	114		69-131		
Sodium	5.95	U	5.95	100	mg/kg	115		71-129		
Strontium	0.0680	J	0.0250	0.500	mg/kg	104		81-119		
Tin	1.38	J	0.320	10.0	mg/kg	101		74-126		
Titanium	0.0710	U	0.0710	1.00	mg/kg	87		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	104		80-120		
Batch number: 112715711003	Sample number(s): 6419488-6419494,6419497-6419504									
Mercury	0.0069	U	0.0069	0.0979	mg/kg	100		72-128		
Batch number: 11276621201A	Sample number(s): 6419488-6419492,6419494,6419497-6419502									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	90		90-110		
Batch number: 11276621201B	Sample number(s): 6419503-6419504									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	90		90-110		
Batch number: 11277621201A	Sample number(s): 6419488-6419492,6419494,6419497-6419501									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	114		85-115		
Batch number: 11277621201B	Sample number(s): 6419502-6419504									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	114		85-115		
Batch number: 11278243201A	Sample number(s): 6419488-6419492,6419494,6419497-6419504									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	90		80-120		
Batch number: 11283039401A	Sample number(s): 6419488-6419491,6419494,6419497-6419500									
17a pH by 9045C						100		95-105		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268378
Reported: 10/20/11 at 12:55 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11283039401B	Sample number(s): 6419501-6419504								
17a pH by 9045C					100		95-105		
Batch number: 11273162401B	Sample number(s): 6419488-6419495,6419497-6419504								
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11274SLG026	Sample number(s): 6419488-6419493,6419497-6419504 UNSPK: 6419491								
Acenaphthene	93	93	63-105	0	30				
Acenaphthylene	87	93	67-114	6	30				
Anthracene	94	99	73-115	5	30				
Benzo(a)anthracene	95	98	59-128	3	30				
Benzo(a)pyrene	101	100	58-142	1	30				
Benzo(b)fluoranthene	96	94	54-163	2	30				
Benzo(g,h,i)perylene	66	71	33-141	8	30				
Benzo(k)fluoranthene	111	107	57-153	4	30				
Butylbenzylphthalate	138	123	57-173	12	30				
Di-n-butylphthalate	114	115	65-148	1	30				
Chrysene	99	96	67-123	4	30				
Dibenz(a,h)anthracene	73	82	22-133	12	30				
Diethylphthalate	94	99	70-136	6	30				
Dimethylphthalate	98	101	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	197*	153	39-167	21	30				
Fluoranthene	113	103	51-149	9	30				
Fluorene	94	100	66-122	6	30				
Indeno(1,2,3-cd)pyrene	73	80	21-143	8	30				
1-Methylnaphthalene	87	89	72-123	3	30				
2-Methylnaphthalene	87	89	64-103	2	30				
Naphthalene	87	90	61-102	3	30				
N-Nitrosodimethylamine	83	87	48-113	5	30				
Di-n-octylphthalate	157	124	40-192	21	30				
Phenanthrene	95	94	62-122	2	30				
Pyrene	101	93	51-131	9	30				
Batch number: 11277SLC026	Sample number(s): 6419488-6419493,6419497-6419504 UNSPK: 6419491								
Acenaphthene	102	96	75-115	4	30				
Acenaphthylene	110	105	81-110	3	30				
Aniline	61	62	18-116	3	30				
Anthracene	108	103	75-115	4	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	105	104	65-122	0	30				
Benzo(a)pyrene	101	103	57-126	3	30				
Benzo(b)fluoranthene	104	102	59-125	1	30				
Benzo(g,h,i)perylene	112	115	59-127	4	30				
Benzo(k)fluoranthene	96	97	56-132	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268378
Reported: 10/20/11 at 12:55 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzoic acid	57	40	10-173	34*	30				
Benzyl alcohol	98	95	67-115	2	30				
4-Bromophenyl-phenylether	102	98	67-129	3	30				
Butylbenzylphthalate	109	108	73-134	1	30				
Di-n-butylphthalate	104	100	67-123	3	30				
Carbazole	104	100	64-120	3	30				
4-Chloro-3-methylphenol	98	99	62-122	2	30				
4-Chloroaniline	41	38	13-107	7	30				
bis(2-Chloroethoxy)methane	93	91	75-104	2	30				
bis(2-Chloroethyl)ether	90	89	60-116	1	30				
bis(2-Chloroisopropyl)ether	84	81	55-142	2	30				
2-Chloronaphthalene	88	81	50-141	8	30				
2-Chlorophenol	99	98	73-121	0	30				
4-Chlorophenyl-phenylether	94	87	80-109	6	30				
Chrysene	101	99	62-128	1	30				
Dibenz(a,h)anthracene	115	114	65-125	1	30				
Dibenzofuran	98	93	71-112	4	30				
1,2-Dichlorobenzene	82	83	66-108	3	30				
1,3-Dichlorobenzene	81	82	63-109	3	30				
1,4-Dichlorobenzene	80	81	58-108	3	30				
3,3'-Dichlorobenzidine	62	65	28-109	6	30				
2,4-Dichlorophenol	97	95	66-123	1	30				
Diethylphthalate	98	92	66-118	4	30				
2,4-Dimethylphenol	101	97	68-118	2	30				
3,5-Dimethylphenol	97	95	71-127	0	30				
Dimethylphthalate	99	90	64-118	8	30				
4,6-Dinitro-2-methylphenol	63	55	11-126	12	30				
2,4-Dinitrophenol	34	23	20-143	36*	30				
2,4-Dinitrotoluene	92	87	56-129	5	30				
2,6-Dinitrotoluene	99	97	69-123	1	30				
1,2-Diphenylhydrazine	109	106	71-129	2	30				
bis(2-Ethylhexyl)phthalate	113	110	63-122	2	30				
Fluoranthene	106	100	73-112	4	30				
Fluorene	104	96	63-121	6	30				
Hexachlorobenzene	93	92	77-114	0	30				
Hexachlorobutadiene	84	83	62-120	0	30				
Hexachlorocyclopentadiene	49	42	10-153	13	30				
Hexachloroethane	74	77	57-109	5	30				
Indeno(1,2,3-cd)pyrene	115	119	61-126	4	30				
Isophorone	94	93	73-102	0	30				
1-Methylnaphthalene	91	92	64-122	2	30				
2-Methylnaphthalene	96	95	76-114	0	30				
2-Methylphenol	99	96	75-111	1	30				
4-Methylphenol	94	88	59-123	5	30				
Naphthalene	93	93	72-116	1	30				
2-Nitroaniline	96	90	67-125	6	30				
3-Nitroaniline	91	86	59-122	5	30				
4-Nitroaniline	82	67	41-109	19	30				
Nitrobenzene	94	98	57-125	5	30				
2-Nitrophenol	97	97	56-127	2	30				
4-Nitrophenol	92	86	37-129	6	30				
N-Nitroso-di-n-propylamine	86	86	60-116	2	30				
N-Nitrosodimethylamine	85	83	47-116	1	30				

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268378
Reported: 10/20/11 at 12:55 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
N-Nitrosodiphenylamine	110	105	71-122	3	30				
Di-n-octylphthalate	99	98	56-126	0	30				
Pentachlorophenol	46	68	28-127	39*	30				
Phenanthrene	102	99	65-125	1	30				
Phenol	95	92	58-126	2	30				
Pyrene	100	101	74-126	2	30				
1,2,4-Trichlorobenzene	87	89	72-115	3	30				
2,4,5-Trichlorophenol	98	94	58-129	2	30				
2,4,6-Trichlorophenol	109	98	56-134	10	30				
Batch number: 112770013A	Sample number(s): 6419488-6419493,6419495-6419504 UNSPK: 6419491								
2,4-D	229*	63	17-180	114*	35				
Dalapon	22	0*	10-125	200*	50				
2,4-DB	0*	0*	10-201	0	50				
Dicamba	0*	0*	10-190	0	50				
Dinoseb	0*	6*	10-46	200*	35				
2,4-DP (Dichlorprop)	0*	0*	33-178	0	50				
MCPA	0*	0*	10-213	0	50				
MCPP (Mecoprop)	0*	0*	10-184	0	50				
2,4,5-T	58	51	10-156	13	35				
2,4,5-TP	0*	0*	24-141	0	35				
Batch number: 112740010A	Sample number(s): 6419488-6419493,6419495-6419504 UNSPK: 6419491								
PCB-1016	80	80	29-146	0	50				
PCB-1260	43	47	39-149	4	50				
Batch number: 112780013A	Sample number(s): 6419488-6419493,6419495-6419504 UNSPK: 6419491								
Aldrin	61	67	16-126	10	50				
Alpha BHC	62	65	10-129	5	50				
Beta BHC	41	53	14-147	27	50				
Gamma BHC - Lindane	74	82	10-140	11	50				
p,p-DDD	0*	91	16-163	200*	50				
p,p-DDE	58	88	18-161	19	50				
p,p-DDT	35	49	10-176	7	50				
Delta BHC	81	88	23-140	7	50				
Dieldrin	69	76	19-154	10	50				
Endosulfan I	74	68	16-137	8	50				
Endosulfan II	86	66	28-154	26	50				
Endosulfan Sulfate	72	89	21-160	21	50				
Endrin	90	88	11-149	2	50				
Endrin Aldehyde	0*	20	10-148	26	35				
Endrin Ketone	86	85	22-165	2	50				
Heptachlor	68	74	13-126	8	50				
Heptachlor Epoxide	124	100	13-157	22	50				
Methoxychlor	55	61	32-147	11	50				
Batch number: 112711026001A	Sample number(s): 6419488-6419494,6419497-6419504 UNSPK: 6419491 BKG: 6419491								
Antimony	54*	50*	75-125	5	20	0.433	0.397	9 (1)	20
Arsenic	187*	150*	75-125	7	20	7.31	7.26	1	20
Beryllium	81	76	75-125	4	20	0.399	0.375	6 (1)	20
Cadmium	143*	143*	75-125	1	20	0.292	0.229	24* (1)	20
Chromium	181 (2)	164 (2)	75-125	3	20	53.8	51.7	4	20
Cobalt	112	113	75-125	0	20	7.37	6.84	8	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268378
Reported: 10/20/11 at 12:55 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Copper	131*	134*	75-125	1	20	7.32	7.11	3	20
Lead	7 (2)	117 (2)	75-125	8	20	39.8	35.7	11	20
Nickel	147*	143*	75-125	2	20	14.0	12.9	8	20
Silver	139*	140*	75-125	0	20	0.0369 J	0.0344 J	7 (1)	20
Thallium	134*	141*	75-125	3	20	0.171	0.158	7 (1)	20
Vanadium	213 (2)	202 (2)	75-125	1	20	97.4	94.9	3	20
Zinc	123 (2)	131 (2)	75-125	1	20	72.2	70.2	3	20
Batch number: 112711026001B	Sample number(s): 6419488-6419494,6419497-6419504 UNSPK: 6419491 BKG: 6419491								
Selenium	137*	135*	75-125	2	20	0.255 J	0.242 J	5 (1)	20
Batch number: 112711026001C	Sample number(s): 6419488-6419494,6419497-6419504 UNSPK: 6419491 BKG: 6419491								
Molybdenum	145*	147*	75-125	0	20	0.752	0.703	7	20
Batch number: 112711026001D	Sample number(s): 6419488-6419494,6419497-6419504 UNSPK: 6419491 BKG: 6419491								
Barium	133 (2)	131 (2)	75-125	0	20	68.9	63.6	8	20
Batch number: 112715708001	Sample number(s): 6419488-6419494,6419497-6419504 UNSPK: 6419491 BKG: 6419491								
Aluminum	948 (2)	956 (2)	75-125	0	20	12,100	12,000	0	20
Boron	92	94	84-115	2	20	7.44	7.66	3 (1)	20
Calcium	335 (2)	259 (2)	75-125	5	20	5,120	5,130	0	20
Iron	330 (2)	763 (2)	75-125	2	20	22,700	23,000	1	20
Lithium	97	97	82-114	0	20	16.1	16.4	2	20
Magnesium	144 (2)	192 (2)	75-125	2	20	5,590	5,630	1	20
Manganese	105 (2)	123 (2)	75-125	2	20	303	291	4	20
Phosphorus	103 (2)	93 (2)	75-125	1	20	872	873	0	20
Potassium	124	125	75-125	0	20	1,750	1,760	1	20
Sodium	101	101	75-125	0	20	123	123	0 (1)	20
Strontium	98	99	75-115	1	20	21.8	21.7	1	20
Tin	91	91	80-110	1	20	2.98 J	3.08 J	3 (1)	20
Titanium	529 (2)	548 (2)	75-125	1	20	1,230	1,270	2	20
Zirconium	94	94	81-110	0	20	12.4	13.1	5 (1)	20
Batch number: 112715711003	Sample number(s): 6419488-6419494,6419497-6419504 UNSPK: 6419491 BKG: 6419491								
Mercury	79	91	65-135	15	20	0.0132 J	0.0068 U	200* (1)	20
Batch number: 11276621201A	Sample number(s): 6419488-6419492,6419494,6419497-6419502 UNSPK: 6419491 BKG: 6419491								
11a Anions by 300.0 - Fluoride	50*		80-120			4.5	3.5	27* (1)	20
Batch number: 11276621201B	Sample number(s): 6419503-6419504 UNSPK: 6419503 BKG: 6419503								
11a Anions by 300.0 - Fluoride	76*		80-120			1.2	1.9	42* (1)	20
Batch number: 11277621201A	Sample number(s): 6419488-6419492,6419494,6419497-6419501 UNSPK: 6419491 BKG: 6419491								
7a Perchlorate EPA 314.0	115		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11277621201B	Sample number(s): 6419502-6419504 UNSPK: P419519 BKG: P419519								
7a Perchlorate EPA 314.0	112		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11278243201A	Sample number(s): 6419488-6419492,6419494,6419497-6419504 UNSPK: 6419491 BKG: 6419491								
3a Cr VI by EPA 7199	85		75-125			0.20 U	0.20 U	0 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268378
Reported: 10/20/11 at 12:55 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11283039401A	Sample number(s): 6419488-6419491,6419494,6419497-6419500					BKG: 6419491			
17a pH by 9045C						6.04	6.06	0	3
Batch number: 11283039401B	Sample number(s): 6419501-6419504					BKG: P419519			
17a pH by 9045C						8.19	8.19	0	3
Batch number: 11273162401B	Sample number(s): 6419488-6419495,6419497-6419504					BKG: 6419491			
28a Moisture Content by 160.3						0.67	0.62	7 (1)	20
Moisture Content by 160.3						0.67	0.62	7 (1)	20
Moisture Content by 160.3						0.67	0.62	7 (1)	20

Surrogate Quality Control

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

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11274SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6419488	92	85	91
6419489	98	89	92
6419490	99	88	92
6419491	80	71	72
6419492	103	84	88
6419493	100	84	88
6419497	99	90	97
6419498	91	84	95
6419499	95	87	90
6419500	94	84	93
6419501	62	67	119
6419502	91	84	90
6419503	80	73	94
6419504	84	80	90
Blank	89	83	50
LCS	97	84	90
MS	103	84	88
MSD	100	84	88
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11277SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6419488	99	104	90	91	91	88
6419489	102	107	80	92	94	87
6419490	91	95	89	84	89	84
6419491	91	97	82	92	96	86

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268378
Reported: 10/20/11 at 12:55 PM

Surrogate Quality Control

6419492	97	102	87	93	98	84
6419493	96	102	81	94	92	86
6419497	102	105	89	87	108	94
6419498	82	85	77	79	79	76
6419499	94	97	78	87	91	84
6419500	90	92	83	83	83	82
6419501	90	98	81	89	92	81
6419502	100	102	85	91	92	85
6419503	95	97	86	91	93	84
6419504	99	103	89	93	95	85
Blank	101	109	90	100	108	97
LCS	89	95	90	92	91	86
MS	97	102	87	93	98	84
MSD	96	102	81	94	92	86
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112740010A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6419488	94	95
6419489	95	93
6419490	92	93
6419491	91	82
6419492	91	92
6419493	89	84
6419495	95	94
6419496	98	101
6419497	94	138*
6419498	84	86
6419499	92	86
6419500	90	88
6419501	70	68
6419502	90	89
6419503	81	75
6419504	86	84
Blank	90	96
LCS	92	97
LCSD	97	106
MS	91	92
MSD	89	84
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112770013A

	2,4-Dichlorophenylacetic acid
6419488	106
6419489	109
6419490	82
6419491	118
6419492	116
6419493	103
6419495	113

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268378
Reported: 10/20/11 at 12:55 PM

Surrogate Quality Control

6419496	79
6419497	98
6419498	69
6419499	80
6419500	96
6419501	121
6419502	100
6419503	88
6419504	119
Blank	92
LCS	91
MS	116
MSD	103
Limits:	36-156

Analysis Name: 12a Pesticides by 8081A
Batch number: 112780013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6419488	77	123*
6419489	54	77
6419490	78	102
6419491	80	116
6419492	62	90
6419493	64	100
6419495	69	110
6419496	85	88
6419497	142*	1601*
6419498	58	0*
6419499	63	145*
6419500	64	74
6419501	60	80
6419502	58	70
6419503	65	83
6419504	59	104
Blank	85	125*
LCS	84	128*
MS	62	90
MSD	64	100
Limits:	50-130	20-120

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CHAIN OF CUSTODY RECORD

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

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020BA7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	Other Instructions and Notes
						PRIMARY FOR ALL LOCATIONS									SS ONLY			Revised COC
SL-001-SA3-SS-0.0-0.5	9/26/11	0750	SOIL	NONE	1-SS Sleeve			X	X									
SL-001-SA3-SS-0.0-0.5	9/26/11	0750	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-002-SA3-SS-0.0-0.5	9/26/11	0815	SOIL	NONE	1-SS Sleeve			X	X									
SL-002-SA3-SS-0.0-0.5	9/26/11	0815	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-002-SA5DS-SS-0.0-0.5	9/26/11	1435	SOIL	NONE	1-SS Sleeve			X	X									
SL-002-SA5DS-SS-0.0-0.5	9/26/11	1435	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-001-SA5D-SS-0.0-0.5MS	9/26/11	1505	SOIL	NONE	2-SS Sleeves			X	X									MS/MSD sample
SL-001-SA5D-SS-0.0-0.5MS	9/26/11	1505	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X		MS/MSD sample
SL-026-SA5DS-SS-0.0-0.5	9/26/11	1035	SOIL	NONE	2-Encores												X	PL PB 10/03/11
SL-026-SA5DS-SS-0.0-0.5	9/26/11	1035	SOIL	NONE	1-SS Sleeve			X	X									
SL-026-SA5DS-SS-0.0-0.5	9/26/11	1035	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-027-SA5DS-SS-0.0-0.5	9/26/11	0925	SOIL	NONE	1-SS Sleeve			X	X									
SL-027-SA5DS-SS-0.0-0.5	9/26/11	0925	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-028-SA5DS-SS-0.0-0.5	9/26/11	1050	SOIL	NONE	1-SS Sleeve			X	X									
SL-028-SA5DS-SS-0.0-0.5	9/26/11	1050	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-029-SA5DS-SS-0.0-0.5	9/26/11	1110	SOIL	NONE	1-SS Sleeve			X	X									
SL-029-SA5DS-SS-0.0-0.5	9/26/11	1110	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-030-SA5DS-SS-0.0-0.5	9/26/11	1125	SOIL	NONE	1-SS Sleeve			X	X									
SL-030-SA5DS-SS-0.0-0.5	9/26/11	1125	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-031-SA5DS-SS-0.0-0.5	9/26/11	1150	SOIL	NONE	1-SS Sleeve			X	X									
SL-031-SA5DS-SS-0.0-0.5	9/26/11	1150	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-032-SA5DS-SS-0.0-0.5	9/26/11	1210	SOIL	NONE	1-SS Sleeve			X	X									
SL-032-SA5DS-SS-0.0-0.5	9/26/11	1210	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
DUP01-SA5DS-QC-092611	9/26/11	1510	SOIL	NONE	1-SS Sleeve			X	X									
DUP01-SA5DS-QC-092611	9/26/11	1510	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/26/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8767 9858 3428; 8767 9858 3439 8767 9858 3440	

CHAIN OF CUSTODY RECORD 13013/1268378/G419488-504

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

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A(surface soil only)	*Herbicides EPA 8151(surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dioxonal EPA 8270	Other Instructions and Notes
SL-102-SA7-SB-4.5MS	9/26/11	0905	SOIL	NONE	4-Encores														X											2 Extra Encores collected
SL-102-SA7-SB-4.0-5.0MS	9/26/11	0910	SOIL	NONE	9-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	MS/MSD Sample
SL-102-SA7-SB-9.5	9/26/11	0933	SOIL	NONE	2-Encores														X											MS/MSD Sample
SL-102-SA7-SB-9.0-10.0	9/26/11	0930	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
SL-109-SA7-SB-4.5	9/26/11	1210	SOIL	NONE	2-Encores														X											
SL-109-SA7-SB-4.0-5.0	9/26/11	1213	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
SL-109-SA7-SB-9.5	9/26/11	1218	SOIL	NONE	2-Encores														X											
SL-109-SA7-SB-9.0-10.0	9/26/11	1220	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
SL-125-SA7-SB-4.0-5.0MS	9/26/11	1452	SOIL	NONE	6-16 oz jars	X	X	X	X	X	X	X	X																	MS/MSD Sample
SL-170-SA7-SB-4.5	9/26/11	1110	SOIL	NONE	2-Encores														X											
SL-170-SA7-SB-4.0-5.0	9/26/11	1115	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
SL-170-SA7-SB-9.5	9/26/11	1123	SOIL	NONE	2-Encores														X											
SL-170-SA7-SB-9.0-10.0	9/26/11	1130	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
DUP007-SA7-QC-092611	9/26/11	0923	SOIL	NONE	8-Encores														X											
DUP007-SA7-QC-092611	9/26/11	0923	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
DUP008-SA7-QC-092611	9/26/11	1500	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X																	
TB-092611	9/26/11	1430	WATER	NONE	2-40mL vials														X											

Relinquished by: (*Signature*) Date/Time: 09/19/2011 / 1600

Received for Laboratory by: (*Signature*)

Laboratory: Lancaster Laboratories, Inc.

Received by: (*Signature*) Date/Time

Airbill No.(s)
8767 9858 3428; 8767 9858 3439
8767 9858 3440

Revised COC

13013 1268378 6419488-504

CHAIN OF CUSTODY RECORD

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

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SS ONLY			Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	
SL-001-SA3-SS-0.0-0.5	9/26/11	0750	SOIL	NONE	1-SS Sleeve			X	X									
SL-001-SA3-SS-0.0-0.5	9/26/11	0750	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-002-SA3-SS-0.0-0.5	9/26/11	0815	SOIL	NONE	1-SS Sleeve			X	X									
SL-002-SA3-SS-0.0-0.5	9/26/11	0815	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-002-SA5DS-SS-0.0-0.5	9/26/11	1435	SOIL	NONE	1-SS Sleeve			X	X									
SL-002-SA5DS-SS-0.0-0.5	9/26/11	1435	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-021-SA5D-SS-0.0-0.5MS	9/26/11	1505	SOIL	NONE	2-SS Sleeves			X	X									MS/MSD sample
SL-021-SA5D-SS-0.0-0.5MS	9/26/11	1505	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X		MS/MSD sample
SL-026-SA5DS-SS-0.0-0.5	9/26/11	1035	SOIL	NONE	2-Encores												X	
SL-026-SA5DS-SS-0.0-0.5	9/26/11	1035	SOIL	NONE	1-SS Sleeve			X	X									
SL-026-SA5DS-SS-0.0-0.5	9/26/11	1035	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-027-SA5DS-SS-0.0-0.5	9/26/11	0925	SOIL	NONE	1-SS Sleeve			X	X									
SL-027-SA5DS-SS-0.0-0.5	9/26/11	0925	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-028-SA5DS-SS-0.0-0.5	9/26/11	1050	SOIL	NONE	1-SS Sleeve			X	X									
SL-028-SA5DS-SS-0.0-0.5	9/26/11	1050	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-029-SA5DS-SS-0.0-0.5	9/26/11	1110	SOIL	NONE	1-SS Sleeve			X	X									
SL-029-SA5DS-SS-0.0-0.5	9/26/11	1110	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-030-SA5DS-SS-0.0-0.5	9/26/11	1125	SOIL	NONE	1-SS Sleeve			X	X									
SL-030-SA5DS-SS-0.0-0.5	9/26/11	1125	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-031-SA5DS-SS-0.0-0.5	9/26/11	1150	SOIL	NONE	1-SS Sleeve			X	X									
SL-031-SA5DS-SS-0.0-0.5	9/26/11	1150	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-032-SA5DS-SS-0.0-0.5	9/26/11	1210	SOIL	NONE	1-SS Sleeve			X	X									
SL-032-SA5DS-SS-0.0-0.5	9/26/11	1210	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
DUP01-SA5DS-QC-092611	9/26/11	1510	SOIL	NONE	1-SS Sleeve			X	X									
DUP01-SA5DS-QC-092611	9/26/11	1510	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/26/2011 / 1630	LLI 9/27/11 0900	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No(s)**	
		8767 9858 3428; 8767 9858 3439 8767 9858 3440	

Nicole Maljovec

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Thursday, September 29, 2011 10:22 AM
To: Nicole Maljovec; SA Env Entry
Cc: Hartman, Pamela
Subject: RE: SSFL COC for 9/28
Attachments: COC_09_28_11 revised.xlsx

I have revised the Subarea 5D South COC from yesterday to include samples for perchlorate confirmation. See attached.

Also I will not be submitting the encores associated with sample SA-026-SA5DS-SS-0.0-0.5 included on the COC dated 9/26.

Thanks! Peggy

From: Bloisa, Peggy
Sent: Wednesday, September 28, 2011 5:42 PM
To: 'Nicole Maljovec'; 'SA Env Entry'
Cc: Burgesser, Todd; Zakowski, Cherie; 'Laura Rainey'; Hartman, Pamela
Subject: RE: SSFL COC for 9/28

Attached is COC for 9/28/11. Surface sampling was completed in Subarea 5D South today.

Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

Please consider the environment before printing this email.

Nicole Maljovec

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Tuesday, September 27, 2011 7:33 PM
To: Nicole Maljovec; SA Env Entry
Cc: Burgesser, Todd; Zakowski, Cherie; Laura Rainey; Hartman, Pamela
Subject: SSFL COCs for 9/26 and 9/27
Attachments: COC_09_27_11.xlsx; COC_09_26_11 revised.xlsx

Attached is today's COC and a revised COC for yesterday 9/26. The sample shown as SL-021-002-SA5DS-SS-0.0-0.5 collected at 1505 as shown on yesterdays COC should have been labeled as SL-001. The "real" SL-021 was sampled today.

Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

Please consider the environment before printing this email.

Nicole Maljovec

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Monday, September 26, 2011 8:50 PM
To: Nicole Maljovec; SA Env Entry
Subject: SSFL COC for 9/26/2011
Attachments: COC_09_26_11.xlsx

Hi Nicole – see attached COC. Four of the Encore samplers collected for SL-102-SA7-SB-4.5MS and the Encores (2 encore samplers) for SL-026-SA5DS-SS-0.0-0.5 did not get included in the coolers (found them after the courier left – it was a typical Monday).

The sampler for SL-026 didn't know to collect enough Encores for VOCs, dioxane, and TPH-GRO (should have been five) and I assumed ☹ he incorrectly collected the encores for TPH-GRO only. I will send the remaining encores for SL-102, but I am going to ask John tomorrow about the other location, and will let you know if he wants us to recollect those encores and resubmit them.

Thanks! Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

Please consider the environment before printing this email.

Explanation of Symbols and Abbreviations

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

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

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

> greater than

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

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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

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

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

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

October 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/27/2011
Group Number: 1268380
SDG: DX142
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-001-SA3-SS-0.0-0.5 Soil	6419507
SL-002-SA3-SS-0.0-0.5 Soil	6419508
SL-002-SA5DS-SS-0.0-0.5 Soil	6419509
SL-001-SA5DS-SS-0.0-0.5 Soil	6419510
SL-001-SA5DS-SS-0.0-0.5 MS Soil	6419511
SL-001-SA5DS-SS-0.0-0.5 MSD Soil	6419512
SL-026-SA5DS-SS-0.0-0.5 Soil	6419513
SL-027-SA5DS-SS-0.0-0.5 Soil	6419514
SL-028-SA5DS-SS-0.0-0.5 Soil	6419515
SL-029-SA5DS-SS-0.0-0.5 Soil	6419516
SL-030-SA5DS-SS-0.0-0.5 Soil	6419517
SL-031-SA5DS-SS-0.0-0.5 Soil	6419518

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

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

Lancaster Laboratories

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Analysis Report

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

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA3-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA3-SS-0.0-0.5

LLI Sample # SW 6419507
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 07:50

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD001 SDG#: DX142-11

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

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

Sample Description: SL-001-SA3-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA3-SS-0.0-0.5

LLI Sample # SW 6419507
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 07:50

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD001 SDG#: DX142-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0640	JQ	0.0488	0.964	1
11031	12378-PeCDD	40321-76-4	0.142	JQ	0.0428	4.82	1
11031	123478-HxCDD	39227-28-6	0.183	J	0.0448	4.82	1
11031	123678-HxCDD	57653-85-7	0.534	JB	0.0433	4.82	1
11031	123789-HxCDD	19408-74-3	0.450	JBQ	0.0412	4.82	1
11031	1234678-HpCDD	35822-46-9	7.87	B	0.0516	4.82	1
11031	OCDD	3268-87-9	72.8	B	0.0573	9.64	1
11031	2378-TCDF	51207-31-9	0.186	JQ	0.0673	0.964	1
11031	12378-PeCDF	57117-41-6	0.0337	U	0.0337	4.82	1
11031	23478-PeCDF	57117-31-4	0.208	JBQ	0.0386	4.82	1
11031	123478-HxCDF	70648-26-9	0.287	JQ	0.0378	4.82	1
11031	123678-HxCDF	57117-44-9	0.215	JQ	0.0289	4.82	1
11031	123789-HxCDF	72918-21-9	0.147	JQ	0.0455	4.82	1
11031	234678-HxCDF	60851-34-5	0.365	JBQ	0.0344	4.82	1
11031	1234678-HpCDF	67562-39-4	2.15	JB	0.0216	4.82	1
11031	1234789-HpCDF	55673-89-7	0.135	JB	0.0563	4.82	1
11031	OCDF	39001-02-0	5.56	JB	0.0765	9.64	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	55	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	46	26 - 138
13C12-OCDF	44	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA3-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA3-SS-0.0-0.5

LLI Sample # SW 6419507
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 07:50

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD001 SDG#: DX142-11

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

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA3-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA3-SS-0.0-0.5

LLI Sample # SW 6419507
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 07:50

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD001 SDG#: DX142-11

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11278001	10/08/2011 04:39	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11278001	10/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA3-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA3-SS-0.0-0.5

LLI Sample # SW 6419508
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 08:15

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD002 SDG#: DX142-12

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

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

Sample Description: SL-002-SA3-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA3-SS-0.0-0.5

LLI Sample # SW 6419508
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 08:15

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD002 SDG#: DX142-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0470	U	0.0470	0.987	1
11031	12378-PeCDD	40321-76-4	0.0471	U	0.0471	4.94	1
11031	123478-HxCDD	39227-28-6	0.176	JQ	0.0513	4.94	1
11031	123678-HxCDD	57653-85-7	0.460	JB	0.0473	4.94	1
11031	123789-HxCDD	19408-74-3	0.312	JBQ	0.0404	4.94	1
11031	1234678-HpCDD	35822-46-9	7.87	B	0.0576	4.94	1
11031	OCDD	3268-87-9	81.3	B	0.0597	9.87	1
11031	2378-TCDF	51207-31-9	0.242	J	0.0768	0.987	1
11031	12378-PeCDF	57117-41-6	0.176	JBQ	0.0459	4.94	1
11031	23478-PeCDF	57117-31-4	0.236	JBQ	0.0461	4.94	1
11031	123478-HxCDF	70648-26-9	0.465	J	0.0430	4.94	1
11031	123678-HxCDF	57117-44-9	0.186	J	0.0361	4.94	1
11031	123789-HxCDF	72918-21-9	0.0486	U	0.0486	4.94	1
11031	234678-HxCDF	60851-34-5	0.244	JBQ	0.0400	4.94	1
11031	1234678-HpCDF	67562-39-4	2.10	JB	0.0250	4.94	1
11031	1234789-HpCDF	55673-89-7	0.122	JBQ	0.0460	4.94	1
11031	OCDF	39001-02-0	6.98	JB	0.0582	9.87	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	98	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	62	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-002-SA3-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA3-SS-0.0-0.5

LLI Sample # SW 6419508
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 08:15

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD002 SDG#: DX142-12

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

S *Saturation of detection signal*

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

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Analysis Report

Sample Description: SL-002-SA3-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA3-SS-0.0-0.5

LLI Sample # SW 6419508
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 08:15

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD002 SDG#: DX142-12

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11278001	10/08/2011 05:35	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11278001	10/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419509
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:35

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD025 SDG#: DX142-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.1	0.50	0.50	1

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

Sample Description: SL-002-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419509
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:35

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD025 SDG#: DX142-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0574	JQ	0.0441	0.986	1
11031	12378-PeCDD	40321-76-4	0.152	JQ	0.0435	4.93	1
11031	123478-HxCDD	39227-28-6	0.154	JQ	0.0398	4.93	1
11031	123678-HxCDD	57653-85-7	0.529	JB	0.0403	4.93	1
11031	123789-HxCDD	19408-74-3	0.655	JB	0.0401	4.93	1
11031	1234678-HpCDD	35822-46-9	6.48	B	0.0526	4.93	1
11031	OCDD	3268-87-9	54.8	B	0.0503	9.86	1
11031	2378-TCDF	51207-31-9	0.642	JQ	0.0987	0.986	1
11031	12378-PeCDF	57117-41-6	0.473	JB	0.0492	4.93	1
11031	23478-PeCDF	57117-31-4	1.09	JB	0.0492	4.93	1
11031	123478-HxCDF	70648-26-9	0.480	JQ	0.0419	4.93	1
11031	123678-HxCDF	57117-44-9	0.224	JQ	0.0371	4.93	1
11031	123789-HxCDF	72918-21-9	0.459	JQ	0.0451	4.93	1
11031	234678-HxCDF	60851-34-5	0.401	JB	0.0396	4.93	1
11031	1234678-HpCDF	67562-39-4	1.39	JB	0.0202	4.93	1
11031	1234789-HpCDF	55673-89-7	0.132	JB	0.0316	4.93	1
11031	OCDF	39001-02-0	2.64	JB	0.0490	9.86	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419509
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:35

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD025 SDG#: DX142-13

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

S *Saturation of detection signal*

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

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Analysis Report

Sample Description: SL-002-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419509
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:35

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD025 SDG#: DX142-13

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11278001	10/08/2011 09:35	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11278001	10/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419510
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD021 SDG#: DX142-14BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.67	0.50	0.50	1

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

Sample Description: SL-001-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419510
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD021 SDG#: DX142-14BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0449	U	0.0449	0.987	1
11031	12378-PeCDD	40321-76-4	0.246	JQ	0.0485	4.94	1
11031	123478-HxCDD	39227-28-6	0.286	J	0.0527	4.94	1
11031	123678-HxCDD	57653-85-7	0.734	JB	0.0514	4.94	1
11031	123789-HxCDD	19408-74-3	0.789	JB	0.0528	4.94	1
11031	1234678-HpCDD	35822-46-9	13.6	B	0.0585	4.94	1
11031	OCDD	3268-87-9	135	B	0.0709	9.87	1
11031	2378-TCDF	51207-31-9	0.510	J	0.105	0.987	1
11031	12378-PeCDF	57117-41-6	1.23	JB	0.0636	4.94	1
11031	23478-PeCDF	57117-31-4	1.31	JB	0.0628	4.94	1
11031	123478-HxCDF	70648-26-9	0.260	J	0.0468	4.94	1
11031	123678-HxCDF	57117-44-9	0.419	J	0.0429	4.94	1
11031	123789-HxCDF	72918-21-9	0.120	JQ	0.0494	4.94	1
11031	234678-HxCDF	60851-34-5	0.314	JBQ	0.0438	4.94	1
11031	1234678-HpCDF	67562-39-4	2.62	JB	0.0303	4.94	1
11031	1234789-HpCDF	55673-89-7	0.221	JB	0.0487	4.94	1
11031	OCDF	39001-02-0	5.49	JB	0.0544	9.87	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419510
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD021 SDG#: DX142-14BKG

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

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419510
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD021 SDG#: DX142-14BKG

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11278001	10/08/2011 10:31	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11278001	10/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA5DS-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419511
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD021 SDG#: DX142-14MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.67	0.50	0.50	1

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

Sample Description: SL-001-SA5DS-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419511
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD021 SDG#: DX142-14MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	19.8		0.0564	1.00	1
11031	12378-PeCDD	40321-76-4	99.8		0.0625	5.01	1
11031	123478-HxCDD	39227-28-6	99.4		0.0701	5.01	1
11031	123678-HxCDD	57653-85-7	96.9	B	0.0661	5.01	1
11031	123789-HxCDD	19408-74-3	103	B	0.0553	5.01	1
11031	1234678-HpCDD	35822-46-9	108	B	0.0738	5.01	1
11031	OCDD	3268-87-9	334	B	0.0896	10.0	1
11031	2378-TCDF	51207-31-9	19.6		0.0999	1.00	1
11031	12378-PeCDF	57117-41-6	97.4	B	0.0612	5.01	1
11031	23478-PeCDF	57117-31-4	95.5	B	0.0620	5.01	1
11031	123478-HxCDF	70648-26-9	96.2		0.131	5.01	1
11031	123678-HxCDF	57117-44-9	95.8		0.111	5.01	1
11031	123789-HxCDF	72918-21-9	94.2		0.0785	5.01	1
11031	234678-HxCDF	60851-34-5	95.1	B	0.0686	5.01	1
11031	1234678-HpCDF	67562-39-4	92.4	B	0.0722	5.01	1
11031	1234789-HpCDF	55673-89-7	94.2	B	0.0942	5.01	1
11031	OCDF	39001-02-0	195	B	0.104	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	35	26 - 152
13C12-123678-HxCDF	41	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	60	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	54	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-001-SA5DS-SS-0.0-0.5 MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419511
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD021 SDG#: DX142-14MS

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

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA5DS-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419511
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD021 SDG#: DX142-14MS

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11278001	10/08/2011 11:28	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11278001	10/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA5DS-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419512
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD021 SDG#: DX142-14MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.67	0.50	0.50	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA5DS-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419512
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD021 SDG#: DX142-14MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	19.1		0.0555	1.00	1
11031	12378-PeCDD	40321-76-4	97.6		0.0598	5.02	1
11031	123478-HxCDD	39227-28-6	95.5		0.0774	5.02	1
11031	123678-HxCDD	57653-85-7	93.7	B	0.0725	5.02	1
11031	123789-HxCDD	19408-74-3	101	B	0.0652	5.02	1
11031	1234678-HpCDD	35822-46-9	105	B	0.0787	5.02	1
11031	OCDD	3268-87-9	322	B	0.0911	10.0	1
11031	2378-TCDF	51207-31-9	18.8		0.106	1.00	1
11031	12378-PeCDF	57117-41-6	95.5	B	0.0658	5.02	1
11031	23478-PeCDF	57117-31-4	92.7	B	0.0627	5.02	1
11031	123478-HxCDF	70648-26-9	89.1		0.135	5.02	1
11031	123678-HxCDF	57117-44-9	88.9		0.108	5.02	1
11031	123789-HxCDF	72918-21-9	90.3		0.0963	5.02	1
11031	234678-HxCDF	60851-34-5	91.2	B	0.0855	5.02	1
11031	1234678-HpCDF	67562-39-4	91.1	B	0.0614	5.02	1
11031	1234789-HpCDF	55673-89-7	92.4	B	0.0928	5.02	1
11031	OCDF	39001-02-0	184	B	0.105	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	95	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	51	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	55	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA5DS-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419512
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD021 SDG#: DX142-14MSD

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

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA5DS-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419512
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:05

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD021 SDG#: DX142-14MSD

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11278001	10/08/2011 12:24	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11278001	10/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

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

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Analysis Report

Sample Description: SL-026-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419513
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 10:35

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD026 SDG#: DX142-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.4	0.50	0.50	1

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

Sample Description: SL-026-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419513
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 10:35

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

SD026 SDG#: DX142-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.426	U	0.426	9.85	1
11031	12378-PeCDD	40321-76-4	0.401	U	0.401	49.2	1
11031	123478-HxCDD	39227-28-6	0.285	U	0.285	49.2	1
11031	123678-HxCDD	57653-85-7	0.485	JBQ	0.283	49.2	1
11031	123789-HxCDD	19408-74-3	0.277	U	0.277	49.2	1
11031	1234678-HpCDD	35822-46-9	6.83	JB	0.373	49.2	1
11031	OCDD	3268-87-9	49.6	JB	0.406	98.5	1
11031	2378-TCDF	51207-31-9	1.10	JC	0.791	9.85	1
11031	12378-PeCDF	57117-41-6	3.87	JB	0.442	49.2	1
11031	23478-PeCDF	57117-31-4	9.93	JB	0.396	49.2	1
11031	123478-HxCDF	70648-26-9	11.3	JB	0.498	49.2	1
11031	123678-HxCDF	57117-44-9	3.91	JB	0.433	49.2	1
11031	123789-HxCDF	72918-21-9	3.86	J	0.406	49.2	1
11031	234678-HxCDF	60851-34-5	4.40	JB	0.379	49.2	1
11031	1234678-HpCDF	67562-39-4	5.02	JB	0.315	49.2	1
11031	1234789-HpCDF	55673-89-7	4.10	JB	0.320	49.2	1
11031	OCDF	39001-02-0	8.98	JB	0.436	98.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	55	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	65	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419513
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 10:35

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD026 SDG#: DX142-15

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

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419513
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 10:35

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD026 SDG#: DX142-15

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11285001	10/15/2011 12:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11285001	10/12/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419514
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:25

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD027 SDG#: DX142-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.2	0.50	0.50	1

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

Sample Description: SL-027-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419514
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:25

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD027 SDG#: DX142-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.128	U	0.128	0.973	1
11031	12378-PeCDD	40321-76-4	0.170	U	0.170	4.87	1
11031	123478-HxCDD	39227-28-6	0.158	U	0.158	4.87	1
11031	123678-HxCDD	57653-85-7	0.356	JBQ	0.154	4.87	1
11031	123789-HxCDD	19408-74-3	0.249	JBQ	0.145	4.87	1
11031	1234678-HpCDD	35822-46-9	9.15	B	0.186	4.87	1
11031	OCDD	3268-87-9	55.0	B	0.220	9.73	1
11031	2378-TCDF	51207-31-9	0.108	JQ	0.0936	0.973	1
11031	12378-PeCDF	57117-41-6	0.190	JBQ	0.0912	4.87	1
11031	23478-PeCDF	57117-31-4	0.427	JBQ	0.0845	4.87	1
11031	123478-HxCDF	70648-26-9	0.256	JQ	0.111	4.87	1
11031	123678-HxCDF	57117-44-9	0.105	U	0.105	4.87	1
11031	123789-HxCDF	72918-21-9	0.272	JQ	0.121	4.87	1
11031	234678-HxCDF	60851-34-5	0.372	JBQ	0.100	4.87	1
11031	1234678-HpCDF	67562-39-4	0.893	JBQ	0.153	4.87	1
11031	1234789-HpCDF	55673-89-7	0.597	JBQ	0.174	4.87	1
11031	OCDF	39001-02-0	2.01	JBQ	0.269	9.73	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	52	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-027-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419514
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:25

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD027 SDG#: DX142-16

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

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419514
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:25

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD027 SDG#: DX142-16

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11278001	10/08/2011 14:18	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11278001	10/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419515
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 10:50

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD028 SDG#: DX142-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.56	0.50	0.50	1

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

Sample Description: SL-028-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419515
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 10:50

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD028 SDG#: DX142-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0478	U	0.0478	0.971	1
11031	12378-PeCDD	40321-76-4	0.188	JQ	0.0524	4.85	1
11031	123478-HxCDD	39227-28-6	0.301	JQ	0.0925	4.85	1
11031	123678-HxCDD	57653-85-7	0.451	JBQ	0.0968	4.85	1
11031	123789-HxCDD	19408-74-3	0.320	JBQ	0.0916	4.85	1
11031	1234678-HpCDD	35822-46-9	7.10	B	0.201	4.85	1
11031	OCDD	3268-87-9	57.5	B	0.259	9.71	1
11650	2378-TCDF-Conf	51207-31-9	0.788	JC	0.0759	0.971	1
11031	12378-PeCDF	57117-41-6	0.179	JB	0.0744	4.85	1
11031	23478-PeCDF	57117-31-4	0.855	JB	0.0688	4.85	1
11031	123478-HxCDF	70648-26-9	0.594	J	0.139	4.85	1
11031	123678-HxCDF	57117-44-9	0.461	JQ	0.0888	4.85	1
11031	123789-HxCDF	72918-21-9	0.109	JQ	0.0640	4.85	1
11031	234678-HxCDF	60851-34-5	0.470	JB	0.0551	4.85	1
11031	1234678-HpCDF	67562-39-4	1.78	JB	0.174	4.85	1
11031	1234789-HpCDF	55673-89-7	0.156	JBQ	0.127	4.85	1
11031	OCDF	39001-02-0	3.00	JB	0.224	9.71	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-2378-TCDF-Conf	74	24 - 169
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	59	23 - 140
13C12-OCDD	37	17 - 157
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	29	26 - 152
13C12-123678-HxCDF	46	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	39	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	34	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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

Analysis Report

Sample Description: **SL-028-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419515
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 10:50

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD028 SDG#: DX142-17

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

S *Saturation of detection signal*

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

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Analysis Report

Sample Description: SL-028-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419515
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 10:50

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD028 SDG#: DX142-17

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11278001	10/08/2011 15:14	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11278001	10/12/2011 22:20	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11278001	10/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

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Analysis Report

Sample Description: SL-029-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419516
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:10

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD029 SDG#: DX142-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.4	0.50	0.50	1

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

Sample Description: SL-029-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419516
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:10

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD029 SDG#: DX142-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0467	U	0.0467	0.998	1
11031	12378-PeCDD	40321-76-4	0.0602	U	0.0602	4.99	1
11031	123478-HxCDD	39227-28-6	0.0913	JQ	0.0618	4.99	1
11031	123678-HxCDD	57653-85-7	0.121	JBQ	0.0635	4.99	1
11031	123789-HxCDD	19408-74-3	0.179	JBQ	0.0693	4.99	1
11031	1234678-HpCDD	35822-46-9	1.51	JB	0.104	4.99	1
11031	OCDD	3268-87-9	12.7	B	0.147	9.98	1
11031	2378-TCDF	51207-31-9	0.166	J	0.0778	0.998	1
11031	12378-PeCDF	57117-41-6	0.629	JB	0.0466	4.99	1
11031	23478-PeCDF	57117-31-4	0.655	JB	0.0464	4.99	1
11031	123478-HxCDF	70648-26-9	0.605	JQ	0.0552	4.99	1
11031	123678-HxCDF	57117-44-9	0.336	JQ	0.0459	4.99	1
11031	123789-HxCDF	72918-21-9	0.122	J	0.0617	4.99	1
11031	234678-HxCDF	60851-34-5	0.202	JB	0.0497	4.99	1
11031	1234678-HpCDF	67562-39-4	0.542	JB	0.0547	4.99	1
11031	1234789-HpCDF	55673-89-7	0.0976	U	0.0976	4.99	1
11031	OCDF	39001-02-0	1.09	JB	0.177	9.98	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	49	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	49	26 - 138
13C12-OCDF	37	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-029-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419516
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:10

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD029 SDG#: DX142-18

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

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-029-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419516
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:10

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD029 SDG#: DX142-18

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11278001	10/08/2011 16:11	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11278001	10/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-030-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419517
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:25

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD030 SDG#: DX142-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.2	0.50	0.50	1

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

Sample Description: SL-030-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419517
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:25

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD030 SDG#: DX142-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0439 U	0.0439	1.01	1
11031	12378-PeCDD	40321-76-4	0.0762 JQ	0.0383	5.05	1
11031	123478-HxCDD	39227-28-6	0.0932 JQ	0.0536	5.05	1
11031	123678-HxCDD	57653-85-7	0.133 JBQ	0.0507	5.05	1
11031	123789-HxCDD	19408-74-3	0.145 JBQ	0.0478	5.05	1
11031	1234678-HpCDD	35822-46-9	3.49 JB	0.0870	5.05	1
11031	OCDD	3268-87-9	28.5 B	0.132	10.1	1
11031	2378-TCDF	51207-31-9	0.0640 JQ	0.0555	1.01	1
11031	12378-PeCDF	57117-41-6	0.0580 JBQ	0.0298	5.05	1
11031	23478-PeCDF	57117-31-4	0.0297 U	0.0297	5.05	1
11031	123478-HxCDF	70648-26-9	0.112 JQ	0.0362	5.05	1
11031	123678-HxCDF	57117-44-9	0.111 JQ	0.0319	5.05	1
11031	123789-HxCDF	72918-21-9	0.0578 J	0.0415	5.05	1
11031	234678-HxCDF	60851-34-5	0.109 JBQ	0.0332	5.05	1
11031	1234678-HpCDF	67562-39-4	0.797 JB	0.0429	5.05	1
11031	1234789-HpCDF	55673-89-7	0.0979 JBQ	0.0742	5.05	1
11031	OCDF	39001-02-0	1.79 JB	0.146	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	89	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	56	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	43	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-030-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419517
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:25

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD030 SDG#: DX142-19

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

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-030-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419517
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:25

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD030 SDG#: DX142-19

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11278001	10/08/2011 17:07	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11278001	10/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-031-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419518
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:50

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD031 SDG#: DX142-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.4	0.50	0.50	1

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

Sample Description: SL-031-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419518
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:50

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD031 SDG#: DX142-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0792	JQ	0.0384	1.04	1
11031	12378-PeCDD	40321-76-4	0.183	JQ	0.0396	5.18	1
11031	123478-HxCDD	39227-28-6	0.173	J	0.0464	5.18	1
11031	123678-HxCDD	57653-85-7	0.504	JBQ	0.0472	5.18	1
11031	123789-HxCDD	19408-74-3	0.479	JBQ	0.0524	5.18	1
11031	1234678-HpCDD	35822-46-9	8.56	B	0.0522	5.18	1
11031	OCDD	3268-87-9	77.9	B	0.0891	10.4	1
11031	2378-TCDF	51207-31-9	0.674	J	0.0808	1.04	1
11031	12378-PeCDF	57117-41-6	0.294	JB	0.0436	5.18	1
11031	23478-PeCDF	57117-31-4	0.239	JBQ	0.0448	5.18	1
11031	123478-HxCDF	70648-26-9	0.162	JQ	0.0391	5.18	1
11031	123678-HxCDF	57117-44-9	0.170	J	0.0319	5.18	1
11031	123789-HxCDF	72918-21-9	0.0449	U	0.0449	5.18	1
11031	234678-HxCDF	60851-34-5	0.176	JBQ	0.0344	5.18	1
11031	1234678-HpCDF	67562-39-4	1.42	JB	0.0237	5.18	1
11031	1234789-HpCDF	55673-89-7	0.145	JB	0.0440	5.18	1
11031	OCDF	39001-02-0	3.07	JB	0.0836	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	43	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-031-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419518
LLI Group # 1268380
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:50

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD031 SDG#: DX142-20*

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

S *Saturation of detection signal*

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-031-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419518
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:50

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 12:23

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

SD031 SDG#: DX142-20*

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11278001	10/08/2011 18:04	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11278001	10/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

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

Lancaster Laboratories

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

Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268380
Reported: 10/18/11 at 12:23 PM

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

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11273162401B	Sample number(s): 6419507-6419518								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11278001	Sample number(s): 6419507-6419512,6419514-6419518								
2378-TCDD	0.0414 U	0.0414	1.00	ng/kg	103		67-158		
12378-PeCDD	0.0292 U	0.0292	5.00	ng/kg	101		70-142		
123478-HxCDD	0.0220 U	0.0220	5.00	ng/kg	99		70-164		
123678-HxCDD	0.0339 J	0.0218	5.00	ng/kg	97		76-134		
123789-HxCDD	0.0358 J	0.0215	5.00	ng/kg	98		64-162		
1234678-HpCDD	0.161 J	0.0245	5.00	ng/kg	97		70-140		
OCDD	0.328 J	0.0286	10.0	ng/kg	96		78-144		
2378-TCDF	0.0321 U	0.0321	1.00	ng/kg	102		75-158		
2378-TCDF-Conf	0.0143 J	0.0122	1.00	ng/kg	102		75-158		
12378-PeCDF	0.0235 J	0.0149	5.00	ng/kg	97		80-134		
23478-PeCDF	0.0573 J	0.0154	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0336 U	0.0336	5.00	ng/kg	94		72-134		
123678-HxCDF	0.0260 U	0.0260	5.00	ng/kg	94		84-130		
123789-HxCDF	0.0215 U	0.0215	5.00	ng/kg	94		78-130		
234678-HxCDF	0.0337 J	0.0154	5.00	ng/kg	96		70-156		
1234678-HpCDF	0.0842 J	0.0124	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0285 J	0.0178	5.00	ng/kg	95		78-138		
OCDF	0.135 J	0.0560	10.0	ng/kg	95		63-170		
Batch number: 11285001	Sample number(s): 6419513								
2378-TCDD	0.0501 J	0.0485	1.00	ng/kg	95		67-158		
12378-PeCDD	0.0433 J	0.0366	5.00	ng/kg	95		70-142		
123478-HxCDD	0.0242 U	0.0242	5.00	ng/kg	94		70-164		
123678-HxCDD	0.0270 J	0.0240	5.00	ng/kg	90		76-134		
123789-HxCDD	0.0287 J	0.0255	5.00	ng/kg	92		64-162		
1234678-HpCDD	0.227 J	0.0371	5.00	ng/kg	90		70-140		
OCDD	0.456 J	0.0253	10.0	ng/kg	90		78-144		
2378-TCDF	0.0371 U	0.0371	1.00	ng/kg	100		75-158		
12378-PeCDF	0.0611 J	0.0199	5.00	ng/kg	92		80-134		
23478-PeCDF	0.0852 J	0.0206	5.00	ng/kg	89		68-160		
123478-HxCDF	0.0401 J	0.0208	5.00	ng/kg	89		72-134		
123678-HxCDF	0.0225 J	0.0172	5.00	ng/kg	90		84-130		
123789-HxCDF	0.0229 U	0.0229	5.00	ng/kg	90		78-130		
234678-HxCDF	0.0261 J	0.0185	5.00	ng/kg	88		70-156		
1234678-HpCDF	0.0966 J	0.0117	5.00	ng/kg	88		82-122		
1234789-HpCDF	0.0371 J	0.0200	5.00	ng/kg	92		78-138		
OCDF	0.217 J	0.0584	10.0	ng/kg	92		63-170		

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268380
Reported: 10/18/11 at 12:23 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11273162401B	Sample number(s): 6419507-6419518					BKG: P419491			
Moisture Content by 160.3						0.67	0.62	7 (1)	20
Batch number: 11278001	Sample number(s): 6419507-6419512,6419514-6419518 UNSPK: 6419510								
2378-TCDD	99	95	67-158	4	25				
12378-PeCDD	99	97	70-142	2	25				
123478-HxCDD	99	95	70-164	4	25				
123678-HxCDD	96	93	76-134	3	25				
123789-HxCDD	102	99	64-162	2	25				
1234678-HpCDD	94	91	70-140	3	25				
OCDD	99	93	78-144	4	25				
2378-TCDF	95	91	75-158	4	25				
2378-TCDF-Conf	95	91	75-158	4	25				
12378-PeCDF	96	94	80-134	2	25				
23478-PeCDF	94	91	68-160	3	25				
123478-HxCDF	96	89	72-134	8	25				
123678-HxCDF	95	88	84-130	7	25				
123789-HxCDF	94	90	78-130	4	25				
234678-HxCDF	95	91	70-156	4	25				
1234678-HpCDF	89	88	82-122	1	25				
1234789-HpCDF	94	92	78-138	2	25				
OCDF	95	89	63-170	6	25				

Surrogate Quality Control

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

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11278001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6419507	71	59	57	73	61	55
6419508	73	64	64	77	67	68
6419509	71	65	64	71	67	71
6419510	73	64	64	69	64	69
6419511	71	64	35	41	64	67
6419512	73	62	41	51	63	66
6419514	75	64	68	70	74	74
6419515	82	65	29	46	75	73
6419516	71	63	61	71	66	60
6419517	89	76	75	83	79	74
6419518	76	60	60	71	65	60
Blank	72	64	31	40	69	60
MS	71	64	35	41	64	67
MSD	73	62	41	51	63	66
OPR	66	58	49	63	61	53

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268380
Reported: 10/18/11 at 12:23 PM

Surrogate Quality Control

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6419507	96	46	44	70	76	79
6419508	95	60	62	72	81	88
6419509	85	63	61	71	76	82
6419510	79	59	58	70	73	78
6419511	60	56	54	70	74	79
6419512	70	56	55	70	77	88
6419514	67	67	52	66	79	80
6419515	39	55	34	66	78	76
6419516	71	49	37	69	75	77
6419517	82	58	43	81	87	90
6419518	80	52	43	69	78	79
Blank	65	55	48	77	85	87
MS	60	56	54	70	74	79
MSD	70	56	55	70	77	88
OPR	88	53	46	71	79	81

Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6419507	80	79	79	63	73	
6419508	98	87	91	67	73	
6419509	80	80	81	67	70	
6419510	75	80	77	67	70	
6419511	86	80	82	67	71	
6419512	95	84	80	67	68	
6419514	79	72	57	75	64	
6419515	76	59	37		67	74
6419516	68	65	49	67	69	
6419517	92	76	56	86	83	
6419518	68	73	62	72	70	
Blank	88	89	86	61	74	55
MS	86	80	82	67	71	67
MSD	95	84	80	67	68	67
OPR	80	84	82	57	69	57

Limits:	28-130	23-140	17-157	24-169	24-185	24-169

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11285001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6419513	68	64	51	55	64	68
Blank	73	68	59	72	66	66
OPR	63	58	55	65	60	60

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6419513	62	70	65	67	70	72
Blank	93	64	68	79	81	85

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268380
Reported: 10/18/11 at 12:23 PM

Surrogate Quality Control

OPR	89	58	61	69	73	78
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6419513	72	75	72	66	63	
Blank	83	92	96	64	76	
OPR	76	83	88	54	65	54
Limits:	28-130	23-140	17-157	24-169	24-185	22-152

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

13013/12GS350/G419507-18

CHAIN OF CUSTODY RECORD

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

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	Other Instructions and Notes
SL-001-SA3-SS-0.0-0.5	9/26/11	0750	SOIL	NONE	1-SS Sleeve			X	X									Revised COC
SL-001-SA3-SS-0.0-0.5	9/26/11	0750	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-002-SA3-SS-0.0-0.5	9/26/11	0815	SOIL	NONE	1-SS Sleeve			X	X									
SL-002-SA3-SS-0.0-0.5	9/26/11	0815	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-002-SA5DS-SS-0.0-0.5	9/26/11	1435	SOIL	NONE	1-SS Sleeve			X	X									
SL-002-SA5DS-SS-0.0-0.5	9/26/11	1435	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-001-SA5D-SS-0.0-0.5MS	9/26/11	1505	SOIL	NONE	2-SS Sleeves			X	X									MS/MSD sample
SL-001-SA5D-SS-0.0-0.5MS	9/26/11	1505	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X		MS/MSD sample
SL-026-SA5DS-SS-0.0-0.5	9/26/11	1035	SOIL	NONE	2-Encores												X	
SL-026-SA5DS-SS-0.0-0.5	9/26/11	1035	SOIL	NONE	1-SS Sleeve			X	X									
SL-026-SA5DS-SS-0.0-0.5	9/26/11	1035	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-027-SA5DS-SS-0.0-0.5	9/26/11	0925	SOIL	NONE	1-SS Sleeve			X	X									
SL-027-SA5DS-SS-0.0-0.5	9/26/11	0925	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-028-SA5DS-SS-0.0-0.5	9/26/11	1050	SOIL	NONE	1-SS Sleeve			X	X									
SL-028-SA5DS-SS-0.0-0.5	9/26/11	1050	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-029-SA5DS-SS-0.0-0.5	9/26/11	1110	SOIL	NONE	1-SS Sleeve			X	X									
SL-029-SA5DS-SS-0.0-0.5	9/26/11	1110	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-030-SA5DS-SS-0.0-0.5	9/26/11	1125	SOIL	NONE	1-SS Sleeve			X	X									
SL-030-SA5DS-SS-0.0-0.5	9/26/11	1125	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-031-SA5DS-SS-0.0-0.5	9/26/11	1150	SOIL	NONE	1-SS Sleeve			X	X									
SL-031-SA5DS-SS-0.0-0.5	9/26/11	1150	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-032-SA5DS-SS-0.0-0.5	9/26/11	1210	SOIL	NONE	1-SS Sleeve			X	X									
SL-032-SA5DS-SS-0.0-0.5	9/26/11	1210	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
DUP01-SA5DS-QC-092611	9/26/11	1510	SOIL	NONE	1-SS Sleeve			X	X									
DUP01-SA5DS-QC-092611	9/26/11	1510	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/26/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8767 9858 3428; 8767 9858 3439 8767 9858 3440	

SL-001-SA5DS-1 per email 10/13/11

Nicole Maljovec

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Tuesday, September 27, 2011 7:33 PM
To: Nicole Maljovec; SA Env Entry
Cc: Burgesser, Todd; Zakowski, Cherie; Laura Rainey; Hartman, Pamela
Subject: SSFL COCs for 9/26 and 9/27
Attachments: COC_09_27_11.xlsx; COC_09_26_11 revised.xlsx

Attached is today's COC and a revised COC for yesterday 9/26. The sample shown as SL-021-002-SA5DS-SS-0.0-0.5 collected at 1505 as shown on yesterdays COC should have been labeled as SL-001. The "real" SL-021 was sampled today.

Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|


Please consider the environment before printing this email.

13013 1268380 6419507-18

CHAIN OF CUSTODY RECORD

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

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures: Vikki Gatz

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/SW7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	Other Instructions and Notes
						PRIMARY FOR ALL LOCATIONS									SS ONLY			
SL-001-SA3-SS-0.0-0.5	9/26/11	0750	SOIL	NONE	1-SS Sleeve			X	X									
SL-001-SA3-SS-0.0-0.5	9/26/11	0750	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-002-SA3-SS-0.0-0.5	9/26/11	0815	SOIL	NONE	1-SS Sleeve			X	X									
SL-002-SA3-SS-0.0-0.5	9/26/11	0815	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-002-SA5DS-SS-0.0-0.5	9/26/11	1435	SOIL	NONE	1-SS Sleeve			X	X									
SL-002-SA5DS-SS-0.0-0.5	9/26/11	1435	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-021-SA5D-SS-0.0-0.5MS	9/26/11	1505	SOIL	NONE	2-SS Sleeves			X	X									MS/MSD sample
SL-021-SA5D-SS-0.0-0.5MS	9/26/11	1505	SOIL	NONE	2-16 oz. Jars	X	X			X	X	X	X		X	X		MS/MSD sample
SL-026-SA5DS-SS-0.0-0.5	9/26/11	1035	SOIL	NONE	2-Encores												X	
SL-026-SA5DS-SS-0.0-0.5	9/26/11	1035	SOIL	NONE	1-SS Sleeve			X	X									
SL-026-SA5DS-SS-0.0-0.5	9/26/11	1035	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-027-SA5DS-SS-0.0-0.5	9/26/11	0925	SOIL	NONE	1-SS Sleeve			X	X									
SL-027-SA5DS-SS-0.0-0.5	9/26/11	0925	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-028-SA5DS-SS-0.0-0.5	9/26/11	1050	SOIL	NONE	1-SS Sleeve			X	X									
SL-028-SA5DS-SS-0.0-0.5	9/26/11	1050	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-029-SA5DS-SS-0.0-0.5	9/26/11	1110	SOIL	NONE	1-SS Sleeve			X	X									
SL-029-SA5DS-SS-0.0-0.5	9/26/11	1110	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-030-SA5DS-SS-0.0-0.5	9/26/11	1125	SOIL	NONE	1-SS Sleeve			X	X									
SL-030-SA5DS-SS-0.0-0.5	9/26/11	1125	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-031-SA5DS-SS-0.0-0.5	9/26/11	1150	SOIL	NONE	1-SS Sleeve			X	X									
SL-031-SA5DS-SS-0.0-0.5	9/26/11	1150	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-032-SA5DS-SS-0.0-0.5	9/26/11	1210	SOIL	NONE	1-SS Sleeve			X	X									
SL-032-SA5DS-SS-0.0-0.5	9/26/11	1210	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
DUP01-SA5DS-QC-092611	9/26/11	1510	SOIL	NONE	1-SS Sleeve			X	X									
DUP01-SA5DS-QC-092611	9/26/11	1510	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
Vikki Gatz	09/26/2011 / 1630	Mary Hall LLI 9/27/11 0900	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No(s)	
		8767 9858 3428; 8767 9858 3439 8767 9858 3440	

Explanation of Symbols and Abbreviations

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

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

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

> greater than

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

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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

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

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

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Lancaster Laboratories

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

Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

October 28, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/12/2011
Group Number: 1270785
SDG: DE266
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-265-SA6-SB-4.0-5.0 Soil	6434468
SL-147-SA7-SB-1.0-2.0 Soil	6434469
SL-155-SA7-SB-1.5-2.5 Soil	6434470
SL-009-SA3-SB-4.0-5.0 Soil	6434471
SL-049-SA7-SB-4.0-5.0 Soil	6434472
SL-162-SA7-SB-0.0-1.0 Soil	6434473
SL-166-SA7-SB-1.0-2.0 Soil	6434474
SL-167-SA7-SB-0.5-1.5 Soil	6434475
SL-168-SA7-SB-0.5-1.5 Soil	6434476
EB-SA7-SB-101111 Water	6434477
TB-101111 Water	6434478
TB-101111 Sand	6434479
TB-101111 Water	6434480

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

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

Lancaster Laboratories

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Analysis Report

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

Respectfully Submitted,



Chad A. Moline
Group Leader

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-265-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-265-SA6-SB-4.0-5.0

LLI Sample # SW 6434468
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 08:47

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6601 SDG#: DE266-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	180	U	180	361		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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

Sample Description: SL-265-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-265-SA6-SB-4.0-5.0

LLI Sample # SW 6434468
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 08:47

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6601 SDG#: DE266-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.72	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.11

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

Sample Description: SL-265-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-265-SA6-SB-4.0-5.0

LLI Sample # SW 6434468
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 08:47

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6601 SDG#: DE266-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1

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Sample Description: SL-265-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-265-SA6-SB-4.0-5.0

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

E6601 SDG#: DE266-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.89	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	J	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	4.0		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	7.8		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,100		6.48	21.4		1
07914	Boron	7440-42-8	0.386	U	0.386	5.36		1
01650	Calcium	7440-70-2	2,220		2.68	21.4		1
01654	Iron	7439-89-6	20,900		2.80	21.4		1
01656	Lithium	7439-93-2	23.0		0.66	2.1		1
01657	Magnesium	7439-95-4	4,150		0.471	10.7		1
06958	Manganese	7439-96-5	269		0.0386	0.536		1
10145	Phosphorus	7723-14-0	207		0.375	10.7		1
01662	Potassium	7440-09-7	2,260		12.1	53.6		1
01667	Sodium	7440-23-5	118		6.38	107		1
07968	Strontium	7440-24-6	22.3		0.0268	0.536		1
06969	Tin	7440-31-5	3.02	J	0.343	10.7		1
06970	Titanium	7440-32-6	1,230		0.0761	1.07		1
10146	Zirconium	7440-67-7	2.90	J	0.493	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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

Sample Description: SL-265-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-265-SA6-SB-4.0-5.0

LLI Sample # SW 6434468
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 08:47

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6601 SDG#: DE266-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.182	J	0.0793	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.19		0.0857	0.429		2
06126	Barium	7440-39-3	120		0.114	0.429		2
06127	Beryllium	7440-41-7	0.781		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.103	J	0.0471	0.107		2
06131	Chromium	7440-47-3	23.4		0.129	0.429		2
06132	Cobalt	7440-48-4	5.62		0.0214	0.107		2
06133	Copper	7440-50-8	8.96		0.0857	0.429		2
06135	Lead	7439-92-1	6.04		0.0109	0.214		2
06138	Molybdenum	7439-98-7	0.500		0.0536	0.107		2
06139	Nickel	7440-02-0	14.8		0.107	0.429		2
06141	Selenium	7782-49-2	0.0999	J	0.0621	0.429		2
06142	Silver	7440-22-4	0.0402	J	0.0152	0.107		2
06145	Thallium	7440-28-0	0.288		0.0321	0.107		2
06148	Vanadium	7440-62-2	45.4		0.0236	0.107		2
06149	Zinc	7440-66-6	57.0		0.600	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.84		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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

Sample Description: SL-265-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-265-SA6-SB-4.0-5.0

LLI Sample # SW 6434468
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 08:47

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6601 SDG#: DE266-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-265-SA6-SB-4.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11285SLG026	10/17/2011 22:04	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11290SLE026	10/20/2011 10:11	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011 02:44	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11285SLG026	10/13/2011 06:25	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11290B16A	10/18/2011 00:31	Laura M Krieger	21.11
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128525828	10/12/2011 14:15	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128525828	10/12/2011 14:15	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 11:41	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112860003A	10/14/2011 18:28	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112860020A	10/19/2011 17:56	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112860020A	10/14/2011 06:45	Katheryne V Sponheimer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112860003A	10/13/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112850037A	10/13/2011 19:11	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112870018A	10/18/2011 01:08	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/22/2011 01:40	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112860009A	10/15/2011 00:49	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112860009A	10/13/2011 14:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112850037A	10/13/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112870018A	10/14/2011 17:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112855708001	10/21/2011 04:27	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112855708001	10/20/2011 02:07	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112855708001	10/21/2011 04:27	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112855708001	10/21/2011 04:27	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112855708001	10/20/2011 02:07	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112855708001	10/21/2011 04:27	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112855708001	10/20/2011 02:07	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112855708001	10/20/2011 02:07	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112855708001	10/21/2011 04:27	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112855708001	10/20/2011 02:07	Tara L Snyder	1

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

Sample Description: SL-265-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-265-SA6-SB-4.0-5.0

LLI Sample # SW 6434468
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 08:47

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6601 SDG#: DE266-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112855708001	10/20/2011 02:07	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112855708001	10/21/2011 04:27	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112855708001	10/20/2011 02:07	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112855708001	10/20/2011 02:07	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112851026001A	10/13/2011 08:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112851026001A	10/13/2011 08:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112851026001D	10/13/2011 08:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112851026001A	10/13/2011 08:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112851026001A	10/13/2011 08:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112851026001A	10/13/2011 08:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112851026001A	10/13/2011 08:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112851026001A	10/13/2011 08:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112851026001A	10/13/2011 08:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112851026001C	10/13/2011 08:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112851026001A	10/13/2011 08:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112851026001B	10/13/2011 08:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112851026001A	10/13/2011 08:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112851026001A	10/13/2011 08:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112851026001A	10/13/2011 08:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112851026001A	10/13/2011 08:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112855711001	10/13/2011 08:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112855708001	10/12/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112851026001	10/12/2011 22:14	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112855711001	10/13/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201A	10/25/2011 20:58	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11297495201A	10/25/2011 20:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202A	10/20/2011 01:35	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11291243201A	10/20/2011 12:14	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11290102201A	10/17/2011 20:32	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201A	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202A	10/19/2011 08:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11290102201A	10/17/2011 16:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11294039401A	10/21/2011 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-147-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA7-SB-1.0-2.0

LLI Sample # SW 6434469
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:22

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6602 SDG#: DE266-02

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

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

Sample Description: SL-147-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA7-SB-1.0-2.0

LLI Sample # SW 6434469
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:22

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6602 SDG#: DE266-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.79	J	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		23.32
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1

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

Sample Description: SL-147-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA7-SB-1.0-2.0

LLI Sample # SW 6434469
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:22

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6602 SDG#: DE266-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,500		6.27	20.7		1
07914	Boron	7440-42-8	0.373	U	0.373	5.18		1
01650	Calcium	7440-70-2	2,330		2.59	20.7		1
01654	Iron	7439-89-6	18,500		2.70	20.7		1
01656	Lithium	7439-93-2	15.0		0.64	2.1		1
01657	Magnesium	7439-95-4	4,380		0.456	10.4		1
06958	Manganese	7439-96-5	237		0.0373	0.518		1
10145	Phosphorus	7723-14-0	303		0.363	10.4		1
01662	Potassium	7440-09-7	2,180		11.7	51.8		1
01667	Sodium	7440-23-5	69.6	J	6.17	104		1
07968	Strontium	7440-24-6	11.1		0.0259	0.518		1
06969	Tin	7440-31-5	2.81	J	0.332	10.4		1

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

Sample Description: SL-147-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA7-SB-1.0-2.0

LLI Sample # SW 6434469
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:22

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6602 SDG#: DE266-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06970	Titanium	7440-32-6	1,140	0.0736	1.04		1
10146	Zirconium	7440-67-7	1.56 J	0.477	5.18		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.152 J	0.0759	0.205		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.03	0.0821	0.410		2
06126	Barium	7440-39-3	62.0	0.109	0.410		2
06127	Beryllium	7440-41-7	0.455	0.0164	0.103		2
06128	Cadmium	7440-43-9	0.0452 U	0.0452	0.103		2
06131	Chromium	7440-47-3	13.9	0.123	0.410		2
06132	Cobalt	7440-48-4	5.87	0.0205	0.103		2
06133	Copper	7440-50-8	5.78	0.0821	0.410		2
06135	Lead	7439-92-1	4.26	0.0105	0.205		2
06138	Molybdenum	7439-98-7	0.286	0.0513	0.103		2
06139	Nickel	7440-02-0	7.57	0.103	0.410		2
06141	Selenium	7782-49-2	0.185 J	0.0595	0.410		2
06142	Silver	7440-22-4	0.0146 U	0.0146	0.103		2
06145	Thallium	7440-28-0	0.278	0.0308	0.103		2
06148	Vanadium	7440-62-2	31.7	0.0226	0.103		2
06149	Zinc	7440-66-6	53.7	0.575	3.08		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073 U	0.0073	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0	0.85	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6 U	9.6	32.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.52		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	5.40	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.3	0.50	0.50		1

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Sample Description: SL-147-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA7-SB-1.0-2.0

LLI Sample # SW 6434469
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:22

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6602 SDG#: DE266-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

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

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-147-SA7-SB-1.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11290SLE026	10/20/2011	10:36	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011	03:17	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011	18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011	10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11290B16A	10/18/2011	01:08	Laura M Krieger	23.32
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128525828	10/12/2011	14:20	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128525828	10/12/2011	14:20	Larry E Bevins	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112860020A	10/19/2011	18:15	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112860020A	10/14/2011	06:45	Katheryne V Sponheimer	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112850037A	10/13/2011	19:27	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112870018A	10/18/2011	01:21	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/21/2011	23:05	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112860009A	10/14/2011	22:01	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112860009A	10/13/2011	14:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011	13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112850037A	10/13/2011	17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112870018A	10/14/2011	17:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112855708001	10/21/2011	04:31	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112855708001	10/20/2011	02:11	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112855708001	10/21/2011	04:31	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112855708001	10/21/2011	04:31	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112855708001	10/20/2011	02:11	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112855708001	10/21/2011	04:31	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112855708001	10/20/2011	02:11	Tara L Snyder	1

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

Sample Description: SL-147-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA7-SB-1.0-2.0

LLI Sample # SW 6434469
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:22

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6602 SDG#: DE266-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112855708001	10/20/2011 02:11	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112855708001	10/21/2011 04:31	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112855708001	10/20/2011 02:11	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112855708001	10/20/2011 02:11	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112855708001	10/21/2011 04:31	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112855708001	10/20/2011 02:11	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112855708001	10/20/2011 02:11	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112851026001A	10/13/2011 08:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112851026001A	10/13/2011 08:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112851026001D	10/13/2011 08:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112851026001A	10/13/2011 08:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112851026001A	10/13/2011 08:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112851026001A	10/13/2011 08:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112851026001A	10/13/2011 08:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112851026001A	10/13/2011 08:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112851026001A	10/13/2011 08:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112851026001C	10/13/2011 08:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112851026001A	10/13/2011 08:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112851026001B	10/13/2011 08:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112851026001A	10/13/2011 08:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112851026001A	10/13/2011 08:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112851026001A	10/13/2011 08:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112851026001A	10/13/2011 08:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112855711001	10/13/2011 08:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112855708001	10/12/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112851026001	10/12/2011 22:14	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112855711001	10/13/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201A	10/25/2011 21:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202A	10/20/2011 02:44	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11291243201A	10/20/2011 12:40	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11290102201A	10/17/2011 20:33	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201A	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202A	10/19/2011 08:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11290102201A	10/17/2011 16:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11294039401A	10/21/2011 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11291162401B	10/18/2011 21:20	Scott W Freisher	1

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Lancaster Laboratories

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

Analysis Report

Sample Description: SL-155-SA7-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA7-SB-1.5-2.5

LLI Sample # SW 6434470
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 12:32

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6603 SDG#: DE266-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	22.2	J	17.2	34.4		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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

Sample Description: SL-155-SA7-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA7-SB-1.5-2.5

LLI Sample # SW 6434470
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 12:32

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6603 SDG#: DE266-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	15	J	6.3	19		1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		26.65

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Sample Description: SL-155-SA7-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA7-SB-1.5-2.5

LLI Sample # SW 6434470
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 12:32

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6603 SDG#: DE266-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	59	U	59	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	39	U	39	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	79	U	79	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	79	U	79	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	39	U	39	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	39	U	39	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	39	U	39	120	10000000	1
10132	HMX	2691-41-0	98	U	98	290	10000000	1
10132	Nitrobenzene	98-95-3	39	U	39	120	10000000	1
10132	Nitroglycerin	55-63-0	790	U	790	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	79	U	79	120	10000000	1
10132	3-Nitrotoluene	99-08-1	98	U	98	120	10000000	1
10132	4-Nitrotoluene	99-99-0	79	U	79	120	10000000	1
10132	PETN	78-11-5	790	U	790	2,400	10000000	1
10132	RDX	121-82-4	49	U	49	120	10000000	1
10132	Tetryl	479-45-8	60	U	60	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	39	U	39	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	39	U	39	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1

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Sample Description: SL-155-SA7-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA7-SB-1.5-2.5

LLI Sample # SW 6434470
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 12:32

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6603 SDG#: DE266-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	1.0	J	0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,500		6.06	20.0		1
07914	Boron	7440-42-8	0.361	U	0.361	5.01		1
01650	Calcium	7440-70-2	2,890		2.50	20.0		1
01654	Iron	7439-89-6	23,200		2.61	20.0		1
01656	Lithium	7439-93-2	24.7		0.62	2.0		1
01657	Magnesium	7439-95-4	6,010		0.441	10.0		1
06958	Manganese	7439-96-5	429		0.0361	0.501		1
10145	Phosphorus	7723-14-0	426		0.351	10.0		1
01662	Potassium	7440-09-7	3,360		11.3	50.1		1
01667	Sodium	7440-23-5	82.9	J	5.96	100		1
07968	Strontium	7440-24-6	14.5		0.0250	0.501		1
06969	Tin	7440-31-5	2.87	J	0.321	10.0		1
06970	Titanium	7440-32-6	1,330		0.0711	1.00		1
10146	Zirconium	7440-67-7	1.85	J	0.461	5.01		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-155-SA7-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA7-SB-1.5-2.5

LLI Sample # SW 6434470
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 12:32

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6603 SDG#: DE266-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.146	J	0.0741	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.28		0.0801	0.401		2
06126	Barium	7440-39-3	123		0.106	0.401		2
06127	Beryllium	7440-41-7	0.655		0.0160	0.100		2
06128	Cadmium	7440-43-9	0.123		0.0441	0.100		2
06131	Chromium	7440-47-3	27.8		0.120	0.401		2
06132	Cobalt	7440-48-4	9.38		0.0200	0.100		2
06133	Copper	7440-50-8	10.7		0.0801	0.401		2
06135	Lead	7439-92-1	5.45		0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.728		0.0501	0.100		2
06139	Nickel	7440-02-0	19.8		0.100	0.401		2
06141	Selenium	7782-49-2	0.216	J	0.0581	0.401		2
06142	Silver	7440-22-4	0.0252	J	0.0142	0.100		2
06145	Thallium	7440-28-0	0.340		0.0300	0.100		2
06148	Vanadium	7440-62-2	49.3		0.0220	0.100		2
06149	Zinc	7440-66-6	67.3		0.561	3.00		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	J	0.0070	0.0992		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	J	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.88		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-155-SA7-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA7-SB-1.5-2.5

LLI Sample # SW 6434470
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 12:32

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6603 SDG#: DE266-03

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-155-SA7-SB-2.0.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11285SLG026	10/17/2011 22:24	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11290SLE026	10/20/2011 11:01	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011 03:50	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11285SLG026	10/13/2011 06:25	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11290B16A	10/18/2011 01:46	Laura M Krieger	26.65
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128525828	10/12/2011 14:21	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128525828	10/12/2011 14:22	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 12:24	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112860003A	10/14/2011 18:37	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112860020A	10/19/2011 18:33	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112860020A	10/14/2011 06:45	Katheryne V Sponheimer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112860003A	10/13/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112850037A	10/13/2011 19:44	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112870018A	10/18/2011 01:34	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/22/2011 00:33	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112860009A	10/14/2011 22:26	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112860009A	10/13/2011 14:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112850037A	10/13/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112870018A	10/14/2011 17:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112855708001	10/21/2011 04:35	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112855708001	10/20/2011 02:15	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112855708001	10/21/2011 04:35	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112855708001	10/21/2011 04:35	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112855708001	10/20/2011 02:15	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112855708001	10/21/2011 04:35	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112855708001	10/20/2011 02:15	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112855708001	10/20/2011 02:15	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112855708001	10/21/2011 04:35	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112855708001	10/20/2011 02:15	Tara L Snyder	1

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Sample Description: SL-155-SA7-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA7-SB-1.5-2.5

LLI Sample # SW 6434470
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 12:32

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6603 SDG#: DE266-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112855708001	10/20/2011 02:15	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112855708001	10/21/2011 04:35	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112855708001	10/20/2011 02:15	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112855708001	10/20/2011 02:15	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112851026001A	10/13/2011 08:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112851026001A	10/13/2011 08:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112851026001D	10/13/2011 08:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112851026001A	10/13/2011 08:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112851026001A	10/13/2011 08:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112851026001A	10/13/2011 08:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112851026001A	10/13/2011 08:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112851026001A	10/13/2011 08:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112851026001A	10/13/2011 08:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112851026001C	10/13/2011 08:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112851026001A	10/13/2011 08:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112851026001B	10/13/2011 08:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112851026001A	10/13/2011 08:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112851026001A	10/13/2011 08:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112851026001A	10/13/2011 08:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112851026001A	10/13/2011 08:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112855711001	10/13/2011 09:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112855708001	10/12/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112851026001	10/12/2011 22:14	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112855711001	10/13/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201A	10/25/2011 21:29	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11297495201A	10/25/2011 21:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202A	10/20/2011 03:30	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11291243201A	10/20/2011 12:54	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11290102201A	10/17/2011 20:34	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201A	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202A	10/19/2011 08:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11290102201A	10/17/2011 16:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11294039401A	10/21/2011 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

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Analysis Report

Sample Description: SL-009-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA3-SB-4.0-5.0

LLI Sample # SW 6434471
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:05

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6604 SDG#: DE266-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SL-009-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA3-SB-4.0-5.0

LLI Sample # SW 6434471
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:05

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6604 SDG#: DE266-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.0	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.5	U	5.5	18		5
10225	Aroclor 5442	12642-23-8	5.5	U	5.5	18		5
10225	Aroclor 5460	11126-42-4	47		5.5	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.4		5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.4		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.4		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.4		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.4		5
10225	PCB-1254	11097-69-1	96		1.8	9.4		5
10225	PCB-1260	11096-82-5	55		2.1	9.4		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.4		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.4		5

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Sample Description: SL-009-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA3-SB-4.0-5.0

LLI Sample # SW 6434471
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:05

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6604 SDG#: DE266-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		6.49	21.5		1
07914	Boron	7440-42-8	0.386	U	0.386	5.36		1
01650	Calcium	7440-70-2	3,350		2.68	21.5		1
01654	Iron	7439-89-6	19,800		2.80	21.5		1
01656	Lithium	7439-93-2	24.7		0.67	2.1		1
01657	Magnesium	7439-95-4	4,330		0.472	10.7		1
06958	Manganese	7439-96-5	333		0.0386	0.536		1
10145	Phosphorus	7723-14-0	264		0.375	10.7		1
01662	Potassium	7440-09-7	2,920		12.1	53.6		1
01667	Sodium	7440-23-5	1,530		6.38	107		1
07968	Strontium	7440-24-6	19.8		0.0268	0.536		1
06969	Tin	7440-31-5	4.24	J	0.343	10.7		1
06970	Titanium	7440-32-6	1,070		0.0762	1.07		1
10146	Zirconium	7440-67-7	1.82	J	0.493	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.298		0.0794	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.87		0.0858	0.429		2
06126	Barium	7440-39-3	98.4		0.114	0.429		2
06127	Beryllium	7440-41-7	0.913		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.673		0.0472	0.107		2
06131	Chromium	7440-47-3	26.1		0.129	0.429		2
06132	Cobalt	7440-48-4	6.33		0.0215	0.107		2
06133	Copper	7440-50-8	42.8		0.0858	0.429		2
06135	Lead	7439-92-1	49.5		0.0109	0.215		2
06138	Molybdenum	7439-98-7	0.932		0.0536	0.107		2
06139	Nickel	7440-02-0	23.9		0.107	0.429		2
06141	Selenium	7782-49-2	0.100	J	0.0622	0.429		2
06142	Silver	7440-22-4	0.217		0.0152	0.107		2
06145	Thallium	7440-28-0	0.303		0.0322	0.107		2
06148	Vanadium	7440-62-2	35.9		0.0236	0.107		2
06149	Zinc	7440-66-6	90.2		0.601	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0712	J	0.0077	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	14.8		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27	J	0.21	1.1		1

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Analysis Report

Sample Description: SL-009-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA3-SB-4.0-5.0

LLI Sample # SW 6434471
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:05

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

E6604 SDG#: DE266-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	9.61	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.5	0.50	0.50		1

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11290SLE026	10/20/2011	11:27	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011	06:14	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011	18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011	10:00	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112860020A	10/19/2011	18:52	Jessica L Miller	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112860020A	10/14/2011	06:45	Katheryne V Sponheimer	1
01643	Aluminum	SW-846 6010B	1	112855708001	10/21/2011	04:39	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112855708001	10/20/2011	02:20	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112855708001	10/21/2011	04:39	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112855708001	10/21/2011	04:39	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112855708001	10/20/2011	02:20	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112855708001	10/21/2011	04:39	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112855708001	10/20/2011	02:20	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112855708001	10/20/2011	02:20	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112855708001	10/21/2011	04:39	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112855708001	10/20/2011	02:20	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112855708001	10/20/2011	02:20	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112855708001	10/21/2011	04:39	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112855708001	10/20/2011	02:20	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112855708001	10/20/2011	02:20	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112851026001A	10/13/2011	08:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112851026001A	10/13/2011	08:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112851026001D	10/13/2011	08:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112851026001A	10/13/2011	08:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112851026001A	10/13/2011	08:59	Choon Y Tian	2

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

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Analysis Report

Sample Description: SL-009-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA3-SB-4.0-5.0

LLI Sample # SW 6434471
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:05

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6604 SDG#: DE266-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112851026001A	10/13/2011 08:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112851026001A	10/13/2011 08:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112851026001A	10/13/2011 08:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112851026001A	10/13/2011 08:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112851026001C	10/13/2011 08:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112851026001A	10/13/2011 08:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112851026001B	10/13/2011 08:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112851026001A	10/13/2011 08:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112851026001A	10/13/2011 08:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112851026001A	10/13/2011 08:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112851026001A	10/13/2011 08:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112855711001	10/13/2011 09:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112855708001	10/12/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112851026001	10/12/2011 22:14	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112855711001	10/13/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201A	10/25/2011 21:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202A	10/20/2011 03:53	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11291243201A	10/20/2011 13:14	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201A	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202A	10/19/2011 08:05	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11294039401A	10/21/2011 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11291162401B	10/18/2011 21:20	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SB-4.0-5.0

LLI Sample # SW 6434472
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:25

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6605 SDG#: DE266-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	17.2	U	17.2	34.3		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Sample Description: SL-049-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SB-4.0-5.0

LLI Sample # SW 6434472
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:25

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6605 SDG#: DE266-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	2.2		0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.8		0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.7	J	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	2.3		0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	1.2	J	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	34		6.2	19		1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.75	J	0.69	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		24.04

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Sample Description: SL-049-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SB-4.0-5.0

LLI Sample # SW 6434472
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:25

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6605 SDG#: DE266-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	83	U	83	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	83	U	83	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	120	10000000	1
10132	Nitroglycerin	55-63-0	830	U	830	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	83	U	83	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	83	U	83	120	10000000	1
10132	PETN	78-11-5	830	U	830	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	120	10000000	1
10132	Tetryl	479-45-8	64	U	64	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	1,200	U	1,200	3,100		1
	Reporting limits were raised due to limited sample volume.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1

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Sample Description: SL-049-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SB-4.0-5.0

LLI Sample # SW 6434472
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:25

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E6605 SDG#: DE266-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.2		1
10199	EFH (C15-C20)	n.a.	1.0	J	0.42	1.2		1
10199	EFH (C21-C30)	n.a.	5.9		0.42	1.2		1
10199	EFH (C30 - C40)	n.a.	21		0.42	1.2		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,900		6.05	20.0		1
07914	Boron	7440-42-8	0.360	U	0.360	5.00		1
01650	Calcium	7440-70-2	3,410		2.50	20.0		1
01654	Iron	7439-89-6	20,000		2.61	20.0		1
01656	Lithium	7439-93-2	25.2		0.62	2.0		1
01657	Magnesium	7439-95-4	4,650		0.440	10.0		1
06958	Manganese	7439-96-5	283		0.0360	0.500		1
10145	Phosphorus	7723-14-0	347		0.350	10.0		1
01662	Potassium	7440-09-7	2,670		11.3	50.0		1
01667	Sodium	7440-23-5	77.8	J	5.95	100		1
07968	Strontium	7440-24-6	13.8		0.0250	0.500		1
06969	Tin	7440-31-5	2.80	J	0.320	10.0		1
06970	Titanium	7440-32-6	1,140		0.0710	1.00		1
10146	Zirconium	7440-67-7	1.83	J	0.460	5.00		1

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Sample Description: SL-049-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SB-4.0-5.0

LLI Sample # SW 6434472
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:25

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6605 SDG#: DE266-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.142	J	0.0762	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.77		0.0824	0.412		2
06126	Barium	7440-39-3	107		0.109	0.412		2
06127	Beryllium	7440-41-7	0.536		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.119		0.0453	0.103		2
06131	Chromium	7440-47-3	19.3		0.124	0.412		2
06132	Cobalt	7440-48-4	6.87		0.0206	0.103		2
06133	Copper	7440-50-8	8.41		0.0824	0.412		2
06135	Lead	7439-92-1	5.32		0.0105	0.206		2
06138	Molybdenum	7439-98-7	0.432		0.0515	0.103		2
06139	Nickel	7440-02-0	14.2		0.103	0.412		2
06141	Selenium	7782-49-2	0.140	J	0.0598	0.412		2
06142	Silver	7440-22-4	0.0173	J	0.0146	0.103		2
06145	Thallium	7440-28-0	0.334		0.0309	0.103		2
06148	Vanadium	7440-62-2	39.2		0.0227	0.103		2
06149	Zinc	7440-66-6	73.4		0.577	3.09		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0087	J	0.0070	0.0988		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.92	J	0.83	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.64	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.15		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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

Sample Description: SL-049-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SB-4.0-5.0

LLI Sample # SW 6434472
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:25

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6605 SDG#: DE266-05

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-049-SA7-SB-4.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11285SLG026	10/17/2011 22:43	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11290SLE026	10/20/2011 11:52	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011 06:47	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11285SLG026	10/13/2011 06:25	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11290B16A	10/18/2011 03:01	Laura M Krieger	24.04
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128525828	10/12/2011 14:16	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128525828	10/12/2011 14:17	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 13:06	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112860003A	10/14/2011 18:47	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112860020A	10/19/2011 19:11	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112860020A	10/14/2011 06:45	Katheryne V Sponheimer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112860003A	10/13/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112850037A	10/13/2011 20:00	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112870018A	10/18/2011 02:12	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/22/2011 03:30	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112860009A	10/15/2011 04:01	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112860009A	10/13/2011 14:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112850037A	10/13/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112870018A	10/14/2011 17:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112855708001	10/21/2011 04:43	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112855708001	10/20/2011 02:24	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112855708001	10/21/2011 04:43	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112855708001	10/21/2011 04:43	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112855708001	10/20/2011 02:24	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112855708001	10/21/2011 04:43	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112855708001	10/20/2011 02:24	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112855708001	10/20/2011 02:24	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112855708001	10/21/2011 04:43	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112855708001	10/20/2011 02:24	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112855708001	10/20/2011 02:24	Tara L Snyder	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-049-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SB-4.0-5.0

LLI Sample # SW 6434472
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:25

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6605 SDG#: DE266-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112855708001	10/21/2011 04:43	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112855708001	10/20/2011 02:24	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112855708001	10/20/2011 02:24	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112851026001A	10/13/2011 09:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112851026001A	10/13/2011 09:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112851026001D	10/13/2011 09:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112851026001A	10/13/2011 09:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112851026001A	10/13/2011 09:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112851026001A	10/13/2011 09:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112851026001A	10/13/2011 09:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112851026001A	10/13/2011 09:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112851026001A	10/13/2011 09:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112851026001C	10/13/2011 09:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112851026001A	10/13/2011 09:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112851026001B	10/13/2011 09:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112851026001A	10/13/2011 09:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112851026001A	10/13/2011 09:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112851026001A	10/13/2011 09:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112851026001A	10/13/2011 09:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112855711001	10/13/2011 09:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112855708001	10/12/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112851026001	10/12/2011 22:14	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112855711001	10/13/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201A	10/25/2011 22:01	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11297495201A	10/25/2011 22:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202A	10/20/2011 04:16	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11291243201A	10/20/2011 13:27	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11290102201B	10/17/2011 20:35	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201A	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202A	10/19/2011 08:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11290102201B	10/17/2011 16:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11294039401A	10/21/2011 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

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

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Analysis Report

Sample Description: SL-162-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA7-SB-0.0-1.0

LLI Sample # SW 6434473
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:15

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6606 SDG#: DE266-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	175	U	175	350		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1

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

Sample Description: SL-162-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA7-SB-0.0-1.0

LLI Sample # SW 6434473
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:15

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6606 SDG#: DE266-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.8		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.8		5
10138	Anthracene	120-12-7	1.8	U	1.8	8.8		5
10138	Benzo(a)anthracene	56-55-3	6.2	J	3.5	8.8		5
10138	Benzo(a)pyrene	50-32-8	7.6	J	3.5	8.8		5
10138	Benzo(b)fluoranthene	205-99-2	16		3.5	8.8		5
10138	Benzo(g,h,i)perylene	191-24-2	4.2	J	3.5	8.8		5
10138	Benzo(k)fluoranthene	207-08-9	9.1		3.5	8.8		5
10138	Butylbenzylphthalate	85-68-7	58	J	32	95		5
10138	Chrysene	218-01-9	6.9	J	1.8	8.8		5
10138	Dibenz(a,h)anthracene	53-70-3	3.5	U	3.5	8.8		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	78	J	32	95		5
10138	Fluoranthene	206-44-0	18		3.5	8.8		5
10138	Fluorene	86-73-7	3.5	U	3.5	8.8		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.8	J	3.5	8.8		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.8		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.8		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.8		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.8		5
10138	Phenanthrene	85-01-8	5.2	J	3.5	8.8		5
10138	Pyrene	129-00-0	11		3.5	8.8		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1

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

Sample Description: SL-162-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA7-SB-0.0-1.0

LLI Sample # SW 6434473
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:15

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6606 SDG#: DE266-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	83	U	83	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	83	U	83	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	830	U	830	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	83	U	83	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	83	U	83	120	10000000	1
10132	PETN	78-11-5	830	U	830	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	1.3	J	0.41	1.8		1

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

Sample Description: SL-162-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA7-SB-0.0-1.0

LLI Sample # SW 6434473
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:15

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6606 SDG#: DE266-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.3		5
10199	EFH (C15-C20)	n.a.	2.1	U	2.1	6.3		5
10199	EFH (C21-C30)	n.a.	14		2.1	6.3		5
10199	EFH (C30 - C40)	n.a.	75		2.1	6.3		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.3		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,500		6.33	20.9		1
07914	Boron	7440-42-8	0.377	U	0.377	5.23		1
01650	Calcium	7440-70-2	2,800		2.62	20.9		1
01654	Iron	7439-89-6	19,100		2.73	20.9		1
01656	Lithium	7439-93-2	24.3		0.65	2.1		1
01657	Magnesium	7439-95-4	4,180		0.461	10.5		1
06958	Manganese	7439-96-5	256		0.0377	0.523		1
10145	Phosphorus	7723-14-0	370		0.366	10.5		1
01662	Potassium	7440-09-7	3,120		11.8	52.3		1
01667	Sodium	7440-23-5	64.3	J	6.23	105		1
07968	Strontium	7440-24-6	13.9		0.0262	0.523		1
06969	Tin	7440-31-5	2.93	J	0.335	10.5		1
06970	Titanium	7440-32-6	1,120		0.0743	1.05		1
10146	Zirconium	7440-67-7	1.88	J	0.481	5.23		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.135	J	0.0759	0.205		2

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

Sample Description: SL-162-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA7-SB-0.0-1.0

LLI Sample # SW 6434473
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:15

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6606 SDG#: DE266-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.37		0.0821	0.411		2
06126	Barium	7440-39-3	100		0.109	0.411		2
06127	Beryllium	7440-41-7	0.525		0.0164	0.103		2
06128	Cadmium	7440-43-9	0.127		0.0452	0.103		2
06131	Chromium	7440-47-3	18.5		0.123	0.411		2
06132	Cobalt	7440-48-4	6.40		0.0205	0.103		2
06133	Copper	7440-50-8	8.65		0.0821	0.411		2
06135	Lead	7439-92-1	5.67		0.0105	0.205		2
06138	Molybdenum	7439-98-7	0.424		0.0513	0.103		2
06139	Nickel	7440-02-0	12.9		0.103	0.411		2
06141	Selenium	7782-49-2	0.121	J	0.0595	0.411		2
06142	Silver	7440-22-4	0.0222	J	0.0146	0.103		2
06145	Thallium	7440-28-0	0.308		0.0308	0.103		2
06148	Vanadium	7440-62-2	36.8		0.0226	0.103		2
06149	Zinc	7440-66-6	72.0		0.575	3.08		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0085	J	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.95	J	0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27	J	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.65		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-162-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA7-SB-0.0-1.0

LLI Sample # SW 6434473
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:15

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6606 SDG#: DE266-06

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11285SLG026	10/17/2011 23:02	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11290SLE026	10/20/2011 12:18	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011 07:21	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11285SLG026	10/13/2011 06:25	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011 10:00	Kerrie A Freeburn	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 15:14	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112860003A	10/14/2011 18:56	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112860020A	10/19/2011 19:30	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112860020A	10/14/2011 06:45	Katheryne V Sponheimer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112860003A	10/13/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112850037A	10/13/2011 20:17	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112870018A	10/18/2011 02:25	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/22/2011 04:14	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112860009A	10/15/2011 05:12	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112860009A	10/13/2011 14:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112850037A	10/13/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112870018A	10/14/2011 17:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112855708001	10/21/2011 04:47	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112855708001	10/20/2011 02:28	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112855708001	10/21/2011 04:47	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112855708001	10/21/2011 04:47	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112855708001	10/20/2011 02:28	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112855708001	10/21/2011 04:47	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112855708001	10/20/2011 02:28	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112855708001	10/20/2011 02:28	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112855708001	10/21/2011 04:47	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112855708001	10/20/2011 02:28	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112855708001	10/20/2011 02:28	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112855708001	10/21/2011 04:47	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112855708001	10/20/2011 02:28	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112855708001	10/20/2011 02:28	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112851026001A	10/13/2011 09:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112851026001A	10/13/2011 09:05	Choon Y Tian	2

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-162-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA7-SB-0.0-1.0

LLI Sample # SW 6434473
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:15

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6606 SDG#: DE266-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112851026001D	10/13/2011 09:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112851026001A	10/13/2011 09:05	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112851026001A	10/13/2011 09:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112851026001A	10/13/2011 09:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112851026001A	10/13/2011 09:05	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112851026001A	10/13/2011 09:05	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112851026001A	10/13/2011 09:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112851026001C	10/13/2011 09:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112851026001A	10/13/2011 09:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112851026001B	10/13/2011 09:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112851026001A	10/13/2011 09:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112851026001A	10/13/2011 09:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112851026001A	10/13/2011 09:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112851026001A	10/13/2011 09:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112855711001	10/13/2011 09:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112855708001	10/12/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112851026001	10/12/2011 22:14	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112855711001	10/13/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201A	10/25/2011 22:48	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11297495201A	10/25/2011 22:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202A	10/20/2011 04:39	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11291243201A	10/20/2011 13:34	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11290102201B	10/17/2011 20:39	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201A	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202A	10/19/2011 08:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11290102201B	10/17/2011 16:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11294039401A	10/21/2011 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-166-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA7-SB-1.0-2.0

LLI Sample # SW 6434474
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 10:40

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6607 SDG#: DE266-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	174	U	174	348		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	27	J	17	170		1
04688	Benzo(a)pyrene	50-32-8	25	J	17	170		1
04688	Benzo(b)fluoranthene	205-99-2	35	J	17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	18	J	17	170		1
04688	Benzo(k)fluoranthene	207-08-9	19	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Chrysene	218-01-9	30	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	340		1
04688	Fluoranthene	206-44-0	55	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	18	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1

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

Sample Description: SL-166-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA7-SB-1.0-2.0

LLI Sample # SW 6434474
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 10:40

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6607 SDG#: DE266-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenanthrene	85-01-8	27	J	17	170		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	44	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.7		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.7		5
10138	Anthracene	120-12-7	2.9	J	1.7	8.7		5
10138	Dibenz(a,h)anthracene	53-70-3	3.5	U	3.5	8.7		5
10138	Fluorene	86-73-7	3.5	U	3.5	8.7		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.7		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.7		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.7		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.7		5
	Reporting limits were raised due to interference from the sample matrix.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	2.4	U	2.4	12		281.53
	Reporting limits were raised due to sample foaming.							

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Sample Description: SL-166-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA7-SB-1.0-2.0

LLI Sample # SW 6434474
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 10:40

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6607 SDG#: DE266-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1

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SSFL Area IV Collocated Soil Sampling
SL-166-SA7-SB-1.0-2.0

LLI Sample # SW 6434474
LLI Group # 1270785
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 10:40

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

E6607 SDG#: DE266-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	2.3		0.41	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.2	U	4.2	13		10
10199	EFH (C15-C20)	n.a.	4.2	U	4.2	13		10
10199	EFH (C21-C30)	n.a.	71		4.2	13		10
10199	EFH (C30 - C40)	n.a.	250		4.2	13		10
10199	EFH (C8-C11)	n.a.	4.2	U	4.2	13		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,800		6.26	20.7		1
07914	Boron	7440-42-8	0.372	U	0.372	5.17		1
01650	Calcium	7440-70-2	2,830		2.59	20.7		1
01654	Iron	7439-89-6	19,400		2.70	20.7		1
01656	Lithium	7439-93-2	25.1		0.64	2.1		1
01657	Magnesium	7439-95-4	4,350		0.455	10.3		1
06958	Manganese	7439-96-5	269		0.0372	0.517		1
10145	Phosphorus	7723-14-0	353		0.362	10.3		1
01662	Potassium	7440-09-7	3,040		11.7	51.7		1
01667	Sodium	7440-23-5	72.2	J	6.16	103		1
07968	Strontium	7440-24-6	13.0		0.0259	0.517		1
06969	Tin	7440-31-5	2.86	J	0.331	10.3		1
06970	Titanium	7440-32-6	1,190		0.0735	1.03		1
10146	Zirconium	7440-67-7	1.89	J	0.476	5.17		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-166-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA7-SB-1.0-2.0

LLI Sample # SW 6434474
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 10:40

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6607 SDG#: DE266-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.168	J	0.0766	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.64		0.0828	0.414		2
06126	Barium	7440-39-3	101		0.110	0.414		2
06127	Beryllium	7440-41-7	0.536		0.0166	0.103		2
06128	Cadmium	7440-43-9	0.132		0.0455	0.103		2
06131	Chromium	7440-47-3	17.6		0.124	0.414		2
06132	Cobalt	7440-48-4	6.26		0.0207	0.103		2
06133	Copper	7440-50-8	8.59		0.0828	0.414		2
06135	Lead	7439-92-1	6.71		0.0106	0.207		2
06138	Molybdenum	7439-98-7	0.408		0.0517	0.103		2
06139	Nickel	7440-02-0	12.7		0.103	0.414		2
06141	Selenium	7782-49-2	0.112	J	0.0600	0.414		2
06142	Silver	7440-22-4	0.0263	J	0.0147	0.103		2
06145	Thallium	7440-28-0	0.305		0.0310	0.103		2
06148	Vanadium	7440-62-2	37.3		0.0228	0.103		2
06149	Zinc	7440-66-6	83.7		0.579	3.10		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0099	J	0.0072	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.95	J	0.83	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.75		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-166-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA7-SB-1.0-2.0

LLI Sample # SW 6434474
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 10:40

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6607 SDG#: DE266-07

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-166-SA7-SB-1.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11285SLG026	10/17/2011 23:21	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11290SLE026	10/20/2011 12:43	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011 08:27	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11285SLG026	10/13/2011 06:25	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11290B16A	10/18/2011 16:20	Laura M Krieger	281.53
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128525828	10/12/2011 14:23	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128525828	10/12/2011 14:23	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 15:56	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112860003A	10/14/2011 19:06	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112860020A	10/19/2011 19:49	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112860020A	10/14/2011 06:45	Katheryne V Sponheimer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112860003A	10/13/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112850037A	10/13/2011 20:33	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112870018A	10/18/2011 02:38	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/22/2011 06:49	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112860009A	10/15/2011 06:24	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112860009A	10/13/2011 14:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112850037A	10/13/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112870018A	10/14/2011 17:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112855708001	10/21/2011 04:50	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112855708001	10/20/2011 02:32	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112855708001	10/21/2011 04:50	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112855708001	10/21/2011 04:50	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112855708001	10/20/2011 02:32	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112855708001	10/21/2011 04:50	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112855708001	10/20/2011 02:32	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112855708001	10/20/2011 02:32	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112855708001	10/21/2011 04:50	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112855708001	10/20/2011 02:32	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112855708001	10/20/2011 02:32	Tara L Snyder	1

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Lancaster Laboratories

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

Analysis Report

Sample Description: SL-166-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA7-SB-1.0-2.0

LLI Sample # SW 6434474
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 10:40

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E6607 SDG#: DE266-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112855708001	10/21/2011 04:50	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112855708001	10/20/2011 02:32	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112855708001	10/20/2011 02:32	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112851026001A	10/13/2011 09:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112851026001A	10/13/2011 09:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112851026001D	10/13/2011 09:08	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112851026001A	10/13/2011 09:08	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112851026001A	10/13/2011 09:08	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112851026001A	10/13/2011 09:08	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112851026001A	10/13/2011 09:08	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112851026001A	10/13/2011 09:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112851026001A	10/13/2011 09:08	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112851026001C	10/13/2011 09:08	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112851026001A	10/13/2011 09:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112851026001B	10/13/2011 09:08	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112851026001A	10/13/2011 09:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112851026001A	10/13/2011 09:08	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112851026001A	10/13/2011 09:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112851026001A	10/13/2011 09:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112855711001	10/13/2011 09:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112855708001	10/12/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112851026001	10/12/2011 22:14	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112855711001	10/13/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201A	10/25/2011 23:04	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11297495201A	10/25/2011 23:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202A	10/20/2011 05:03	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11291243201A	10/20/2011 13:47	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11290102201B	10/17/2011 20:40	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201A	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202A	10/19/2011 08:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11290102201B	10/17/2011 16:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11294039401B	10/21/2011 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

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Lancaster Laboratories

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

Analysis Report

Sample Description: SL-167-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA7-SB-0.5-1.5

LLI Sample # SW 6434475
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 09:25

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6608 SDG#: DE266-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	174	U	174	349		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	57	J	17	170		1
04688	Aniline	62-53-3	170	U	170	520		1
04688	Anthracene	120-12-7	200		17	170		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	970		17	170		1
04688	Benzo(a)pyrene	50-32-8	920		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	1,200		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	710		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	490		17	170		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	250		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Chrysene	218-01-9	1,200		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	190		17	170		1
04688	Dibenzofuran	132-64-9	53	J	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	17	350		1
04688	Fluoranthene	206-44-0	2,700		17	170		1
04688	Fluorene	86-73-7	58	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1

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Sample Description: SL-167-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA7-SB-0.5-1.5

LLI Sample # SW 6434475
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 09:25

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6608 SDG#: DE266-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	670		17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenanthrene	85-01-8	1,500		17	170		1
04688	Phenol	108-95-2	19	J	17	170		1
04688	Pyrene	129-00-0	2,100		17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.8		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.8		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.8		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.8		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.8		5
	Reporting limits were raised due to interference from the sample matrix.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		mg/kg		mg/kg	mg/kg	mg/kg	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.9	J	0.2	1.1		26.04

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Sample Description: SL-167-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA7-SB-0.5-1.5

LLI Sample # SW 6434475
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 09:25

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6608 SDG#: DE266-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	83	U	83	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	83	U	83	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	830	U	830	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	83	U	83	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	83	U	83	120	10000000	1
10132	PETN	78-11-5	830	U	830	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	2.0	J	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.48	J	0.35	1.8		1

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Sample Description: SL-167-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA7-SB-0.5-1.5

LLI Sample # SW 6434475
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 09:25

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

E6608 SDG#: DE266-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	2.4		0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.3		5
10199	EFH (C15-C20)	n.a.	2.1	U	2.1	6.3		5
10199	EFH (C21-C30)	n.a.	17		2.1	6.3		5
10199	EFH (C30 - C40)	n.a.	93		2.1	6.3		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.3		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,600		6.24	20.6		1
07914	Boron	7440-42-8	0.372	U	0.372	5.16		1
01650	Calcium	7440-70-2	3,220		2.58	20.6		1
01654	Iron	7439-89-6	19,900		2.69	20.6		1
01656	Lithium	7439-93-2	26.5		0.64	2.1		1
01657	Magnesium	7439-95-4	4,410		0.454	10.3		1
06958	Manganese	7439-96-5	271		0.0372	0.516		1
10145	Phosphorus	7723-14-0	363		0.361	10.3		1
01662	Potassium	7440-09-7	2,990		11.7	51.6		1
01667	Sodium	7440-23-5	64.9	J	6.14	103		1
07968	Strontium	7440-24-6	14.8		0.0258	0.516		1
06969	Tin	7440-31-5	2.95	J	0.330	10.3		1
06970	Titanium	7440-32-6	1,150		0.0733	1.03		1
10146	Zirconium	7440-67-7	1.89	J	0.475	5.16		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-167-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA7-SB-0.5-1.5

LLI Sample # SW 6434475
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 09:25

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6608 SDG#: DE266-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.163	J	0.0756	0.204		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.78		0.0818	0.409		2
06126	Barium	7440-39-3	104		0.108	0.409		2
06127	Beryllium	7440-41-7	0.577		0.0164	0.102		2
06128	Cadmium	7440-43-9	0.162		0.0450	0.102		2
06131	Chromium	7440-47-3	21.6		0.123	0.409		2
06132	Cobalt	7440-48-4	6.74		0.0204	0.102		2
06133	Copper	7440-50-8	8.76		0.0818	0.409		2
06135	Lead	7439-92-1	7.03		0.0104	0.204		2
06138	Molybdenum	7439-98-7	0.434		0.0511	0.102		2
06139	Nickel	7440-02-0	13.4		0.102	0.409		2
06141	Selenium	7782-49-2	0.101	J	0.0593	0.409		2
06142	Silver	7440-22-4	0.0378	J	0.0145	0.102		2
06145	Thallium	7440-28-0	0.312		0.0307	0.102		2
06148	Vanadium	7440-62-2	40.5		0.0225	0.102		2
06149	Zinc	7440-66-6	90.2		0.572	3.07		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069	U	0.0069	0.0983		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.84	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.84	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.88		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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

Sample Description: SL-167-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA7-SB-0.5-1.5

LLI Sample # SW 6434475
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 09:25

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6608 SDG#: DE266-08

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-167-SA7-SB-1.0.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11285SLG026	10/17/2011 23:40	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11290SLE026	10/20/2011 13:08	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011 09:01	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11285SLG026	10/13/2011 06:25	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11290B16A	10/18/2011 18:13	Laura M Krieger	26.04
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128525828	10/12/2011 14:17	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128525828	10/12/2011 14:18	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 16:39	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112860003A	10/14/2011 19:25	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112860020A	10/19/2011 20:08	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112860020A	10/14/2011 06:45	Katheryne V Sponheimer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112860003A	10/13/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112850037A	10/13/2011 20:50	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112870018A	10/18/2011 02:51	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/22/2011 04:59	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112860009A	10/15/2011 05:36	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112860009A	10/13/2011 14:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112850037A	10/13/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112870018A	10/14/2011 17:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112855708001	10/21/2011 04:54	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112855708001	10/20/2011 02:36	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112855708001	10/21/2011 04:54	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112855708001	10/21/2011 04:54	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112855708001	10/20/2011 02:36	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112855708001	10/21/2011 04:54	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112855708001	10/20/2011 02:36	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112855708001	10/20/2011 02:36	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112855708001	10/21/2011 04:54	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112855708001	10/20/2011 02:36	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112855708001	10/20/2011 02:36	Tara L Snyder	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-167-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA7-SB-0.5-1.5

LLI Sample # SW 6434475
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 09:25

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6608 SDG#: DE266-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112855708001	10/21/2011 04:54	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112855708001	10/20/2011 02:36	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112855708001	10/20/2011 02:36	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112851026001A	10/13/2011 09:17	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112851026001A	10/13/2011 09:17	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112851026001D	10/13/2011 09:17	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112851026001A	10/13/2011 09:17	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112851026001A	10/13/2011 09:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112851026001A	10/13/2011 09:17	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112851026001A	10/13/2011 09:17	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112851026001A	10/13/2011 09:17	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112851026001A	10/13/2011 09:17	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112851026001C	10/13/2011 09:17	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112851026001A	10/13/2011 09:17	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112851026001B	10/13/2011 09:17	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112851026001A	10/13/2011 09:17	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112851026001A	10/13/2011 09:17	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112851026001A	10/13/2011 09:17	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112851026001A	10/13/2011 09:17	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112855711001	10/13/2011 09:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112855708001	10/12/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112851026001	10/12/2011 22:14	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112855711001	10/13/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201B	10/26/2011 00:07	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11297495201B	10/26/2011 00:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202A	10/20/2011 05:26	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11291243201A	10/20/2011 14:01	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11290102201B	10/17/2011 20:41	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201B	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202A	10/19/2011 08:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11290102201B	10/17/2011 16:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11294039401B	10/21/2011 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

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Analysis Report

Sample Description: SL-168-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA7-SB-0.5-1.5

LLI Sample # SW 6434476
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 13:45

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6609 SDG#: DE266-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	171	U	171	342		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	38	J	17	170		1
04688	Benzo(a)pyrene	50-32-8	49	J	17	170		1
04688	Benzo(b)fluoranthene	205-99-2	65	J	17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	47	J	17	170		1
04688	Benzo(k)fluoranthene	207-08-9	27	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Chrysene	218-01-9	45	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	30	J	17	340		1
04688	Fluoranthene	206-44-0	94	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	40	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1

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

Sample Description: SL-168-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA7-SB-0.5-1.5

LLI Sample # SW 6434476
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 13:45

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6609 SDG#: DE266-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenanthrene	85-01-8	49	J	17	170		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	80	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.7		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.7		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.7		5
10138	Dibenz(a,h)anthracene	53-70-3	3.5	U	3.5	8.7		5
10138	Fluorene	86-73-7	3.5	U	3.5	8.7		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.7		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.7		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.7		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.7		5
	Reporting limits were raised due to interference from the sample matrix.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		26.43

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

Sample Description: SL-168-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA7-SB-0.5-1.5

LLI Sample # SW 6434476
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 13:45

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6609 SDG#: DE266-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	620	U	620	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	2.1	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1

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

Sample Description: SL-168-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA7-SB-0.5-1.5

LLI Sample # SW 6434476
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 13:45

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6609 SDG#: DE266-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	4.0		0.41	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.2		5
10199	EFH (C15-C20)	n.a.	2.1	U	2.1	6.2		5
10199	EFH (C21-C30)	n.a.	32		2.1	6.2		5
10199	EFH (C30 - C40)	n.a.	120		2.1	6.2		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.2		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,100		6.11	20.2		1
07914	Boron	7440-42-8	0.364	U	0.364	5.05		1
01650	Calcium	7440-70-2	2,920		2.53	20.2		1
01654	Iron	7439-89-6	19,100		2.64	20.2		1
01656	Lithium	7439-93-2	25.4		0.63	2.0		1
01657	Magnesium	7439-95-4	4,300		0.445	10.1		1
06958	Manganese	7439-96-5	269		0.0364	0.505		1
10145	Phosphorus	7723-14-0	371		0.354	10.1		1
01662	Potassium	7440-09-7	2,930		11.4	50.5		1
01667	Sodium	7440-23-5	63.1	J	6.01	101		1
07968	Strontium	7440-24-6	13.4		0.0253	0.505		1
06969	Tin	7440-31-5	2.82	J	0.323	10.1		1
06970	Titanium	7440-32-6	1,130		0.0717	1.01		1
10146	Zirconium	7440-67-7	1.85	J	0.465	5.05		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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

Sample Description: SL-168-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA7-SB-0.5-1.5

LLI Sample # SW 6434476
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 13:45

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6609 SDG#: DE266-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0933	J	0.0755	0.204		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.49		0.0816	0.408		2
06126	Barium	7440-39-3	79.0		0.108	0.408		2
06127	Beryllium	7440-41-7	0.414		0.0163	0.102		2
06128	Cadmium	7440-43-9	0.146		0.0449	0.102		2
06131	Chromium	7440-47-3	14.2		0.122	0.408		2
06132	Cobalt	7440-48-4	5.04		0.0204	0.102		2
06133	Copper	7440-50-8	6.34		0.0816	0.408		2
06135	Lead	7439-92-1	5.26		0.0104	0.204		2
06138	Molybdenum	7439-98-7	0.320		0.0510	0.102		2
06139	Nickel	7440-02-0	9.62		0.102	0.408		2
06141	Selenium	7782-49-2	0.0808	J	0.0592	0.408		2
06142	Silver	7440-22-4	0.0234	J	0.0145	0.102		2
06145	Thallium	7440-28-0	0.212		0.0306	0.102		2
06148	Vanadium	7440-62-2	27.8		0.0224	0.102		2
06149	Zinc	7440-66-6	72.1		0.571	3.06		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1	J	0.83	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.86		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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

Sample Description: SL-168-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA7-SB-0.5-1.5

LLI Sample # SW 6434476
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 13:45

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6609 SDG#: DE266-09

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-168-SA7-SB-1.0.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11285SLG026	10/17/2011 23:59	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11290SLE026	10/20/2011 13:34	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011 09:34	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11285SLG026	10/13/2011 06:25	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11290B16B	10/18/2011 20:06	Carrie E Miller	26.43
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128525828	10/12/2011 14:19	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128525828	10/12/2011 14:19	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 17:21	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112860003A	10/14/2011 19:34	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112860020A	10/19/2011 20:26	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112860020A	10/14/2011 06:45	Katheryne V Sponheimer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112860003A	10/13/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112850037A	10/13/2011 21:06	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112870018A	10/18/2011 03:04	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/22/2011 05:43	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112860009A	10/15/2011 06:00	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112860009A	10/13/2011 14:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112850037A	10/13/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112870018A	10/14/2011 17:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112855708001	10/21/2011 05:06	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112855708001	10/20/2011 02:40	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112855708001	10/21/2011 05:06	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112855708001	10/21/2011 05:06	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112855708001	10/20/2011 02:40	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112855708001	10/21/2011 05:06	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112855708001	10/20/2011 02:40	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112855708001	10/20/2011 02:40	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112855708001	10/21/2011 05:06	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112855708001	10/20/2011 02:40	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112855708001	10/20/2011 02:40	Tara L Snyder	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-168-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA7-SB-0.5-1.5

LLI Sample # SW 6434476
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 13:45

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6609 SDG#: DE266-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112855708001	10/21/2011 05:06	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112855708001	10/20/2011 02:40	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112855708001	10/20/2011 02:40	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112851026001A	10/13/2011 09:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112851026001A	10/13/2011 09:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112851026001D	10/13/2011 09:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112851026001A	10/13/2011 09:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112851026001A	10/13/2011 09:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112851026001A	10/13/2011 09:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112851026001A	10/13/2011 09:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112851026001A	10/13/2011 09:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112851026001A	10/13/2011 09:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112851026001C	10/13/2011 09:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112851026001A	10/13/2011 09:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112851026001B	10/13/2011 09:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112851026001A	10/13/2011 09:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112851026001A	10/13/2011 09:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112851026001A	10/13/2011 09:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112851026001A	10/13/2011 09:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112855711001	10/13/2011 09:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112855708001	10/12/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112851026001	10/12/2011 22:14	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112855711001	10/13/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201B	10/26/2011 00:22	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11297495201B	10/26/2011 00:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202A	10/20/2011 05:49	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11291243201A	10/20/2011 14:14	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11290102201B	10/17/2011 20:44	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201B	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202A	10/19/2011 08:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11290102201B	10/17/2011 16:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11294039401B	10/21/2011 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA7-SB-101111 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101111

LLI Sample # WW 6434477
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 14:30

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6610 SDG#: DE266-10EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l	ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	3.07	0.483	0.965		1

The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.

N-nitrosodimethylamine was detected in the method blank at a concentration of 1.14 ng/l. The blank value was not subtracted from the analytical result.

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11286WAH026	10/17/2011 18:15	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11286WAH026	10/14/2011 03:10	David V Hershey Jr	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: TB-101111 Water
SSFL Area IV Collocated Soil Sampling
TB-101111

LLI Sample # WW 6434478
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 08:00

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6611 SDG#: DE266-11TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l	ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	1.16	0.499	0.997		1

The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.

N-nitrosodimethylamine was detected in the method blank at a concentration of 1.14 ng/l. The blank value was not subtracted from the analytical result.

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11286WAH026	10/17/2011 18:34	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11286WAH026	10/14/2011 03:10	David V Hershey Jr	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: TB-101111 Sand
SSFL Area IV Collocated Soil Sampling
TB-101111

LLI Sample # SW 6434479
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 08:00

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6612 SDG#: DE266-12TB

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	16.6	U	16.6	33.1		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50		1

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11285SLG026	10/18/2011 00:37	Matthew S Woods	1
11630	NDMA Soil Microwave	SW-846 3546	1	11285SLG026	10/13/2011 06:25	Roman Kuropatkin	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11291162401B	10/18/2011 21:20	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: TB-101111 Water
SSFL Area IV Collocated Soil Sampling
TB-101111

LLI Sample # WW 6434480
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 08:00

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

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

E6613 SDG#: DE266-13TB*

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11285A20A	10/13/2011 16:45	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11285A20A	10/13/2011 16:45	Marie D John	1

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

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

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

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11285SLG026	Sample number(s): 6434468,6434470,6434472-6434476,6434479									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	98		70-130		
Batch number: 11286WAH026	Sample number(s): 6434477-6434478									
N-Nitrosodimethylamine	1.14		0.500	1.00	ng/l	98	103	70-130	5	30
Batch number: 11290SLE026	Sample number(s): 6434468-6434476									
Acenaphthene	17	U	17.	170	ug/kg	98		76-111		
Aniline	170 U		170.	500	ug/kg	74		20-115		
Anthracene	17	U	17.	170	ug/kg	98		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	43		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	98		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	100		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	101		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	94		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	100		67-125		
Benzoic acid	170 U		170.	500	ug/kg	63		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	113*		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	97		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	92		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	94		79-112		
Carbazole	17	U	17.	170	ug/kg	95		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	112		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	47		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	105		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	107*		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	107		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	71		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	109		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	104		74-115		
Chrysene	17	U	17.	170	ug/kg	96		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	100		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	98		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	91		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	90		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	91		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	42		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	107		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	99		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	109		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	118		83-120		

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dimethylphthalate	17	U	17.	170	ug/kg	100		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	41*		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	22		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	109		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	106		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	103		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	96		75-117		
Fluoranthene	17	U	17.	170	ug/kg	102		78-116		
Fluorene	17	U	17.	170	ug/kg	101		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	100		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	93		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	92		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	90		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	97		64-119		
Isophorone	17	U	17.	170	ug/kg	109		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	116*		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	113		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	107		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	99		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	75		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	110		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	105		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	89		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	109*		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	96		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	101		62-137		
Pentachlorophenol	170 U		170.	500	ug/kg	86		51-117		
Phenanthrene	17	U	17.	170	ug/kg	93		77-113		
Phenol	17	U	17.	170	ug/kg	112		58-112		
Pyrene	17	U	17.	170	ug/kg	95		75-115		
Tetralin	170 U		170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	104		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	102		78-111		
Batch number: 11298SLA026	Sample number(s): 6434468-6434476									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	102		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	94		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	99		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	98		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	100		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	103		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	110		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	124		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	101		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	104		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	110		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	105		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	129		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	102		64-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluorene	0.67	U	0.67	1.7	ug/kg	103		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	102		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	91		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	95		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	94		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	110		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	99		72-119		
Batch number: 11285A20A	Sample number(s): 6434480									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 11290B16A	Sample number(s): 6434468-6434470,6434472,6434474-6434475									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	80		67-119		
Batch number: 11290B16B	Sample number(s): 6434476									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	80		67-119		
Batch number: 112880014A	Sample number(s): 6434468,6434470,6434472-6434476									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	108		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	106		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	85	85	54-134	0	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	84	85	54-134	0	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	109		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	100		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	106		80-120		
HMX	100 U		100.	300	ug/kg	91		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	103		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	86		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	101		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	107		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	100		80-120		
PETN	800 U		800.	2,400	ug/kg	101		80-120		
RDX	50	U	50.	120	ug/kg	101		75-131		
Tetryl	61	U	61.	120	ug/kg	97		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	103		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
Batch number: 112860003A	Sample number(s): 6434468,6434470,6434472-6434476									
20a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	101		80-126		
Batch number: 112860020A	Sample number(s): 6434468-6434476									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	67	79	36-106	16	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	82		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	97		65-137		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112850037A	Sample number(s): 6434468-6434470,6434472-6434476									
Ethanol	100 U		100.	500	ug/kg	89		71-129		
Isopropanol	100 U		100.	500	ug/kg	89		75-125		
Methanol	100 U		100.	500	ug/kg	86		68-129		
Batch number: 112870018A	Sample number(s): 6434468-6434470,6434472-6434476									
Diethylene glycol	5.0	U	5.0	10	mg/kg	94		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	95		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	84		67-131		
Batch number: 112860009A	Sample number(s): 6434468-6434470,6434472-6434476									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	96		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	99		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	100		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	84		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	85		49-107		
Batch number: 112870007A	Sample number(s): 6434468-6434470,6434472-6434476									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	102		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	107		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	100		69-109		
Batch number: 112851026001A	Sample number(s): 6434468-6434476									
Antimony	0.0740	U	0.0740	0.200	mg/kg	139		40-227		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	103		83-111		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	105		84-112		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	105		83-111		
Chromium	0.120	U	0.120	0.400	mg/kg	114		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	110		85-114		
Copper	0.0800	U	0.0800	0.400	mg/kg	104		81-110		
Lead	0.0102	U	0.0102	0.200	mg/kg	104		84-112		
Nickel	0.100	U	0.100	0.400	mg/kg	102		81-110		
Silver	0.0142	U	0.0142	0.100	mg/kg	106		83-112		
Thallium	0.0300	U	0.0300	0.100	mg/kg	103		82-112		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	107		76-110		
Zinc	0.560	U	0.560	3.00	mg/kg	102		82-110		
Batch number: 112851026001B	Sample number(s): 6434468-6434476									
Selenium	0.0580	U	0.0580	0.400	mg/kg	105		79-110		
Batch number: 112851026001C	Sample number(s): 6434468-6434476									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	106		80-110		
Batch number: 112851026001D	Sample number(s): 6434468-6434476									
Barium	0.106	U	0.106	0.400	mg/kg	106		83-110		
Batch number: 112855708001	Sample number(s): 6434468-6434476									
Aluminum	6.05	U	6.05	20.0	mg/kg	94		40-127		
Boron	0.599	J	0.360	5.00	mg/kg	108		83-110		
Calcium	13.1	J	2.50	20.0	mg/kg	107		81-110		
Iron	2.73	J	2.61	20.0	mg/kg	102		47-129		
Lithium	0.62	U	0.62	2.0	mg/kg	102		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Magnesium	0.891	J	0.440	10.0	mg/kg	99		63-116		
Manganese	0.0360	U	0.0360	0.500	mg/kg	107		85-116		
Phosphorus	1.39	J	0.350	10.0	mg/kg	107		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	108		71-110		
Sodium	5.95	U	5.95	100	mg/kg	108		76-110		
Strontium	0.0750	J	0.0250	0.500	mg/kg	108		84-110		
Tin	1.44	J	0.320	10.0	mg/kg	105		86-120		
Titanium	0.0710	U	0.0710	1.00	mg/kg	96		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	103		80-120		
Batch number: 112855711001	Sample number(s): 6434468-6434476									
Mercury	0.0068	U	0.0068	0.0968	mg/kg	100		83-119		
Batch number: 11290102201A	Sample number(s): 6434468-6434470									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11290102201B	Sample number(s): 6434472-6434476									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11291243201A	Sample number(s): 6434468-6434476									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	81		80-120		
Batch number: 11292621202A	Sample number(s): 6434468-6434476									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	111		85-115		
Batch number: 11297495201A	Sample number(s): 6434468-6434474									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	102		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	103		90-110		
Batch number: 11297495201B	Sample number(s): 6434475-6434476									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	102		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	103		90-110		
Batch number: 11294039401A	Sample number(s): 6434468-6434473									
17a pH by 9045C						100		95-105		
Batch number: 11294039401B	Sample number(s): 6434474-6434476									
17a pH by 9045C						100		95-105		
Batch number: 11291162401B	Sample number(s): 6434469,6434471,6434479									
Moisture Content by 160.3						100		80-120		
Batch number: 11298162401A	Sample number(s): 6434468,6434470,6434472-6434476									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11285SLG026	Sample number(s): 6434468,6434470,6434472-6434476,6434479 UNSPK: P432178								
N-Nitrosodimethylamine	89	105	70-130	16	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11290SLE026	Sample number(s): 6434468-6434476 UNSPK: P435690								
Acenaphthene	98	97	75-115	1	30				
Aniline	72	71	18-116	2	30				
Anthracene	101	97	75-115	4	30				
Benzidine	38	37	35-141	4	30				
Benzo(a)anthracene	100	97	65-122	3	30				
Benzo(a)pyrene	103	99	57-126	4	30				
Benzo(b)fluoranthene	108	100	59-125	8	30				
Benzo(g,h,i)perylene	110	104	59-127	5	30				
Benzo(k)fluoranthene	94	93	56-132	2	30				
Benzoic acid	0*	0*	10-173	0	30				
Benzyl alcohol	106	103	67-115	2	30				
4-Bromophenyl-phenylether	106	102	67-129	4	30				
Butylbenzylphthalate	99	95	73-134	4	30				
Di-n-butylphthalate	97	93	67-123	4	30				
Carbazole	96	93	64-120	3	30				
4-Chloro-3-methylphenol	110	109	62-122	1	30				
4-Chloroaniline	62	68	13-107	9	30				
bis(2-Chloroethoxy)methane	103	102	75-104	1	30				
bis(2-Chloroethyl)ether	100	96	60-116	4	30				
bis(2-Chloroisopropyl)ether	101	97	55-142	4	30				
2-Chloronaphthalene	81	79	50-141	3	30				
2-Chlorophenol	101	101	73-121	1	30				
4-Chlorophenyl-phenylether	103	102	80-109	2	30				
Chrysene	95	92	62-128	4	30				
Dibenz(a,h)anthracene	114	108	65-125	5	30				
Dibenzofuran	98	97	71-112	2	30				
1,2-Dichlorobenzene	86	85	66-108	1	30				
1,3-Dichlorobenzene	84	82	63-109	3	30				
1,4-Dichlorobenzene	85	83	58-108	3	30				
3,3'-Dichlorobenzidine	55	59	28-109	7	30				
2,4-Dichlorophenol	101	104	66-123	3	30				
Diethylphthalate	96	94	66-118	2	30				
2,4-Dimethylphenol	106	105	68-118	2	30				
3,5-Dimethylphenol	118	118	71-127	0	30				
Dimethylphthalate	98	95	64-118	2	30				
4,6-Dinitro-2-methylphenol	10*	12	11-126	14	30				
2,4-Dinitrophenol	0*	0*	20-143	0	30				
2,4-Dinitrotoluene	103	101	56-129	2	30				
2,6-Dinitrotoluene	103	102	69-123	1	30				
1,2-Diphenylhydrazine	109	105	71-129	3	30				
bis(2-Ethylhexyl)phthalate	102	100	63-122	2	30				
Fluoranthene	99	97	73-112	2	30				
Fluorene	102	100	63-121	1	30				
Hexachlorobenzene	108	104	77-114	4	30				
Hexachlorobutadiene	96	95	62-120	1	30				
Hexachlorocyclopentadiene	47	48	10-153	3	30				
Hexachloroethane	84	81	57-109	3	30				
Indeno(1,2,3-cd)pyrene	112	107	61-126	4	30				
Isophorone	108*	107*	73-102	1	30				
2-Methylphenol	108	106	75-111	2	30				
4-Methylphenol	107	104	59-123	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Nitroaniline	106	108	67-125	2	30				
3-Nitroaniline	97	96	59-122	1	30				
4-Nitroaniline	79	76	41-109	4	30				
Nitrobenzene	109	108	57-125	1	30				
2-Nitrophenol	89	104	56-127	16	30				
4-Nitrophenol	66	78	37-129	17	30				
N-Nitroso-di-n-propylamine	102	100	60-116	3	30				
N-Nitrosodiphenylamine	101	96	71-122	5	30				
Di-n-octylphthalate	105	100	56-126	4	30				
Pentachlorophenol	24*	41	28-127	52*	30				
Phenanthrene	97	93	65-125	4	30				
Phenol	105	102	58-126	3	30				
Pyrene	99	95	74-126	3	30				
1,2,4-Trichlorobenzene	96	97	72-115	0	30				
2,4,5-Trichlorophenol	92	102	58-129	9	30				
2,4,6-Trichlorophenol	85	100	56-134	16	30				
Batch number: 11298SLA026	Sample number(s): 6434468-6434476 UNSPK: P437195								
Acenaphthene	93	100	63-105	7	30				
Acenaphthylene	90	97	67-114	7	30				
Anthracene	94	102	73-115	8	30				
Benzo(a)anthracene	95	101	59-128	6	30				
Benzo(a)pyrene	93	99	58-142	6	30				
Benzo(b)fluoranthene	98	105	54-163	7	30				
Benzo(g,h,i)perylene	78	85	33-141	9	30				
Benzo(k)fluoranthene	97	103	57-153	5	30				
Butylbenzylphthalate	107	120	57-173	11	30				
Di-n-butylphthalate	112	159*	65-148	34*	30				
Chrysene	94	101	67-123	7	30				
Dibenz(a,h)anthracene	85	94	22-133	10	30				
Diethylphthalate	102	126	70-136	21	30				
Dimethylphthalate	100	107	74-118	7	30				
Bis(2-Ethylhexyl)phthalate	119	100	39-167	13	30				
Fluoranthene	97	104	51-149	7	30				
Fluorene	97	104	66-122	7	30				
Indeno(1,2,3-cd)pyrene	84	92	21-143	9	30				
1-Methylnaphthalene	87	94	72-123	8	30				
2-Methylnaphthalene	85	92	64-103	7	30				
Naphthalene	90	95	61-102	5	30				
N-Nitrosodimethylamine	88	94	48-113	7	30				
Di-n-octylphthalate	139	113	40-192	21	30				
Phenanthrene	90	98	62-122	8	30				
Pyrene	94	100	51-131	6	30				
Batch number: 11290B16A	Sample number(s): 6434468-6434470,6434472,6434474-6434475 UNSPK: P435690								
9a TPH by EPA 8015B Gas C5-C12	73	65	39-118	7	30				
Batch number: 11290B16B	Sample number(s): 6434476 UNSPK: P435690								
9a TPH by EPA 8015B Gas C5-C12	73	65	39-118	7	30				
Batch number: 112880014A	Sample number(s): 6434468,6434470,6434472-6434476 UNSPK: P435690								
4-Amino-2,6-Dinitrotoluene	109	110	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	109	107	80-137	1	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,3-Dinitrobenzene	112	111	38-166	1	50				
2,4-Dinitrotoluene	102	102	80-131	0	50				
2,6-Dinitrotoluene	107	105	80-127	1	50				
HMX	94	94	63-128	0	50				
Nitrobenzene	107	105	80-125	2	50				
Nitroglycerin	100	99	80-120	1	50				
2-Nitrotoluene	104	102	80-122	2	50				
3-Nitrotoluene	110	109	72-119	2	50				
4-Nitrotoluene	103	102	80-125	1	50				
PETN	109	108	80-121	1	50				
RDX	100	99	75-129	1	50				
Tetryl	93	92	55-174	1	50				
1,3,5-Trinitrobenzene	105	103	82-126	2	50				
2,4,6-Trinitrotoluene	109	108	82-130	1	50				
Batch number: 112860003A	Sample number(s): 6434468,6434470,6434472-6434476 UNSPK: P433414								
20a Formaldehyde 8315A	94	108	80-120	14	50				
Batch number: 112860020A	Sample number(s): 6434468-6434476 UNSPK: P431135								
PCB-1016	91	95	29-146	4	50				
PCB-1260	92	96	39-149	4	50				
Batch number: 112850037A	Sample number(s): 6434468-6434470,6434472-6434476 UNSPK: 6434468								
Ethanol	43*	70	48-130	48*	20				
Isopropanol	39	66	12-149	51*	20				
Methanol	43	70	43-138	49*	20				
Batch number: 112870018A	Sample number(s): 6434468-6434470,6434472-6434476 UNSPK: 6434470								
Diethylene glycol	9*	8*	59-109	5	20				
Ethylene glycol	43*	42*	63-107	3	20				
Propylene glycol	52*	50*	63-107	3	20				
Batch number: 112860009A	Sample number(s): 6434468-6434470,6434472-6434476 UNSPK: P430028								
EFH (C12-C14)	85	85	49-123	0	20				
EFH (C15-C20)	106	112	49-123	5	20				
EFH (C21-C30)	111	135*	49-123	12	20				
EFH (C30 - C40)	171*	251*	49-123	19	20				
EFH (C8-C11)	68	67	49-123	2	20				
Batch number: 112870007A	Sample number(s): 6434468-6434470,6434472-6434476 UNSPK: P435690								
m-Terphenyl	93	95	75-125	1	20				
o-Terphenyl	107	107	75-125	0	20				
p-Terphenyl	85	90	75-125	6	20				
Batch number: 112851026001A	Sample number(s): 6434468-6434476 UNSPK: P433412 BKG: P433412								
Antimony	38*	33*	75-125	6	20	0.388	0.234	49* (1)	20
Arsenic	-241 (2)	-213 (2)	75-125	6	20	13.6	6.97	65*	20
Beryllium	115	104	75-125	5	20	0.713	0.610	16	20
Cadmium	121	123	75-125	1	20	0.286	0.201	35* (1)	20
Chromium	106	86	75-125	5	20	28.7	25.5	12	20
Cobalt	131*	123	75-125	5	20	11.1	8.64	25*	20
Copper	95	71*	75-125	8	20	21.5	16.6	26*	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Lead	83	124	75-125	9	20	11.0	11.2	2	20
Nickel	129*	80	75-125	15	20	22.5	18.8	18	20
Silver	129*	129*	75-125	0	20	0.0877 J	0.0777 J	12 (1)	20
Thallium	111	113	75-125	1	20	0.433	0.432	0 (1)	20
Vanadium	44 (2)	34 (2)	75-125	2	20	56.1	47.1	17	20
Zinc	63 (2)	69 (2)	75-125	1	20	90.8	78.2	15	20
Batch number: 112851026001B	Sample number(s): 6434468-6434476 UNSPK: P433412 BKG: P433412								
Selenium	110	115	75-125	4	20	0.556	0.403	32* (1)	20
Batch number: 112851026001C	Sample number(s): 6434468-6434476 UNSPK: P433412 BKG: P433412								
Molybdenum	125	123	75-125	1	20	1.45	0.799	58*	20
Batch number: 112851026001D	Sample number(s): 6434468-6434476 UNSPK: P433412 BKG: P433412								
Barium	246 (2)	61 (2)	75-125	12	20	131	121	8	20
Batch number: 112855708001	Sample number(s): 6434468-6434476 UNSPK: P433412 BKG: P433412								
Aluminum	575 (2)	1076 (2)	75-125	6	20	14,300	15,100	5	20
Boron	103	102	84-115	1	20	0.356 U	0.356 U	0 (1)	20
Calcium	127 (2)	90 (2)	75-125	3	20	5,290	5,130	3	20
Iron	-29 (2)	1606 (2)	75-125	6	20	24,700	30,300	21*	20
Lithium	99	101	82-114	2	20	35.1	39.5	12	20
Magnesium	172 (2)	445 (2)	75-125	8	20	6,590	7,710	16	20
Manganese	67 (2)	66 (2)	75-125	0	20	362	322	11	20
Phosphorus	141 (2)	125 (2)	75-125	3	20	496	571	14	20
Potassium	116	143*	75-125	6	20	3,500	3,700	5	20
Sodium	99	99	75-125	0	20	112	122	9 (1)	20
Strontium	100	99	75-115	1	20	16.5	17.2	4	20
Tin	88	90	80-110	1	20	3.03 J	3.15 J	4 (1)	20
Titanium	261 (2)	339 (2)	75-125	5	20	1,400	1,580	12	20
Zirconium	99	99	81-110	0	20	2.38 J	2.88 J	19 (1)	20
Batch number: 112855711001	Sample number(s): 6434468-6434476 UNSPK: P433412 BKG: P433412								
Mercury	93	97	65-135	4	20	0.0237 J	0.0066 U	200* (1)	20
Batch number: 11290102201A	Sample number(s): 6434468-6434470 UNSPK: P431140 BKG: P431140								
16a Cyanide by 9012B	101		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11290102201B	Sample number(s): 6434472-6434476 UNSPK: 6434472 BKG: 6434472								
16a Cyanide by 9012B	100		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11291243201A	Sample number(s): 6434468-6434476 UNSPK: P435690 BKG: P435690								
3a Cr VI by EPA 7199	91		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11292621202A	Sample number(s): 6434468-6434476 UNSPK: 6434468 BKG: 6434468								
7a Perchlorate EPA 314.0	109		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11297495201A	Sample number(s): 6434468-6434474 UNSPK: P433412 BKG: P433412								
11a Anions by 300.0 - Fluoride	79*		80-120			2.0	2.0	3 (1)	20
11a Anions by 300.0 - Nitrate	97		80-120			2.1	2.0	3 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11297495201B	Sample number(s): 6434475-6434476 UNSPK: P435690 BKG: P435690								
11a Anions by 300.0 - Fluoride	76*		80-120			2.1	1.9	11 (1)	20
11a Anions by 300.0 - Nitrate	95		80-120			0.98 J	0.89 J	9 (1)	20
Batch number: 11294039401A	Sample number(s): 6434468-6434473 BKG: P433413								
17a pH by 9045C						6.81	6.92	2	3
Batch number: 11294039401B	Sample number(s): 6434474-6434476 BKG: 6434476								
17a pH by 9045C						7.86	7.87	0	3
Batch number: 11291162401B	Sample number(s): 6434469,6434471,6434479 BKG: P431141								
Moisture Content by 160.3						4.4	4.3	2	20
Batch number: 11298162401A	Sample number(s): 6434468,6434470,6434472-6434476 BKG: P435690								
Moisture Content by 160.3						2.2	2.3	4 (1)	20

Surrogate Quality Control

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

Analysis Name: 21a NDMA by 1625C
Batch number: 11285SLG026

	N-Nitrosodimethylamine-d6
6434468	132
6434470	126
6434472	131
6434473	145
6434474	124
6434475	109
6434476	104
6434479	127
Blank	175*
LCS	182*
MS	180*
MSD	147
Limits:	50-150

Analysis Name: 21b. NDMA in Water
Batch number: 11286WAH026

	N-Nitrosodimethylamine-d6
6434477	320*
6434478	171*
Blank	153*
LCS	148

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

Surrogate Quality Control

LCSD 160*

Limits: 50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11290SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6434468	99	101	89	97	86	88
6434469	104	105	106	101	87	88
6434470	105	102	105	95	85	88
6434471	106	104	99	97	86	85
6434472	98	97	102	97	87	89
6434473	107	105	95	98	89	89
6434474	105	105	93	99	89	86
6434475	101	103	94	99	89	87
6434476	100	101	93	95	86	86
Blank	94	95	94	96	87	87
LCS	110	109	106	100	88	83
MS	104	102	79	101	88	89
MSD	103	103	92	101	88	87
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11298SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6434468	90	86	91
6434469	92	85	93
6434470	92	85	91
6434471	91	84	86
6434472	96	86	78
6434473	112	87	78
6434474	100	97	88
6434475	80	78	70
6434476	90	82	73
Blank	105	101	110
LCS	100	91	97
MS	94	86	91
MSD	100	91	97
Limits:	40-130	45-130	45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11285A20A

	Trifluorotoluene-F
6434480	87
Blank	88
LCS	113
LCSD	115
Limits:	63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11290B16A

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Quality Control Summary

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Reported: 10/28/11 at 01:28 PM

Surrogate Quality Control

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11290B16B

	Trifluorotoluene-F
6434468	78
6434469	86
6434470	88
6434472	87
6434474	96
6434475	84
Blank	84
LCS	92
MS	96
MSD	92
Limits:	61-122

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11290B16B

	Trifluorotoluene-F
6434476	86
Blank	94
LCS	92
MS	96
MSD	92
Limits:	61-122

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112860003A

	Butyraldehyde
6434468	108
6434470	113
6434472	118
6434473	98
6434474	103
6434475	100
6434476	106
Blank	117
LCS	103
MS	106
MSD	95
Limits:	64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112860020A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6434468	84	93
6434469	93	110
6434470	99	113
6434471	95	71
6434472	92	80
6434473	93	81
6434474	79	60
6434475	87	71

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

Surrogate Quality Control

6434476	108	88
Blank	98	106
LCS	92	102
LCSD	98	106
MS	101	98
MSD	101	97
Limits:	53-139	45-120

Analysis Name: 15a Energetics by 8330A
Batch number: 112880014A

	2-Nitro-m-xylene
6434468	123
6434470	120
6434472	123
6434473	130
6434474	127
6434475	124
6434476	124
Blank	118
LCS	112
LCSD	129
MS	116
MSD	113
Limits:	80-146

Analysis Name: 18a Alcohols by 8015B
Batch number: 112850037A

	Acetone
6434468	75
6434469	52
6434470	75
6434472	81
6434473	59
6434474	60
6434475	58
6434476	81
Blank	89
LCS	85
MS	34*
MSD	61
Limits:	42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112860009A

	Chlorobenzene	Orthoterphenyl
6434468	74	84
6434469	74	87
6434470	82	89
6434472	82	89
6434473	79	87
6434474	85	88

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

Surrogate Quality Control

6434475	85	89
6434476	83	86
Blank	88	90
LCS	79	90
MS	80	86
MSD	77	87
Limits:	37-125	47-145

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112870007A

	n-Triacontane-d62
6434468	77
6434469	79
6434470	78
6434472	83
6434473	80
6434474	148
6434475	78
6434476	87
Blank	76
LCS	76
MS	73
MSD	72
Limits:	19-152

Analysis Name: 19a Glycols by 8015B
Batch number: 112870018A

	Tetramethylene glycol
6434468	74
6434469	74
6434470	74
6434472	74
6434473	74
6434474	74
6434475	72
6434476	73
Blank	84
LCS	87
MS	76
MSD	74
Limits:	29-137

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

acct# 13013 Ap# 1270735 Sample# 6434463-80

CHAIN OF CUSTODY RECORD

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

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-265-SA6-SB-4.5	10.11.11	0843	SOIL	NONE	2-Encores										X											
SL-265-SA6-SB-4.0-5.0	10.11.11	0847	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-147-SA7-SB-1.5	10.11.11	1120	SOIL	NONE	2-Encores										X											
SL-147-SA7-SB-1.0-2.0	10.11.11	1122	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X					X	X	X	X		
SL-155-SA7-SB-2.0	10.11.11	1228	SOIL	NONE	2-Encores										X											
SL-155-SA7-SB-1.5-2.5	10.11.11	1232	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-265-SA6-SB-4.5	10.11.11	0843	SOIL	NONE	2-Encores										X											
SL-265-SA6-SB-4.0-5.0	10.11.11	0847	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-009-SA3-SB-4.0-5.0	10.11.11	1505	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													

Relinquished by: (*Signature*) | **Date/Time** 10/11/2011 / 1630 | **Received for Laboratory by: (*Signature*)** LLI 10/12/11 0900

Received by: (*Signature*) | **Date/Time** | **Airbill No.(s)** 8767 9858 5501, 5497

Laboratory: Lancaster Laboratories, Inc.

acct# 13013 Cap# 1370755 sample# 6434468-30

CHAIN OF CUSTODY RECORD

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

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 5 (SA5) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphonyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-049-SA7-SB-4.5	10.11.11	1525	SOIL	NONE	1-SS Sleeve										X											
SL-049-SA7-SB-4.0-5.0	10.11.11	1525	SOIL	NONE	1-SS Sleeve			X	X																	
SL-049-SA7-SB-4.0-5.0	10.11.11	1525	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-162-SA7-SB-0.0-1.0	10.11.11	1115	SOIL	NONE	1-SS Sleeve			X	X																	
SL-162-SA7-SB-0.0-1.0	10.11.11	1115	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-166-SA7-SB-1.5	10.11.11	1045	SOIL	NONE	2-Encores										X											
SL-166-SA7-SB-1.0-2.0	10.11.11	1040	SOIL	NONE	1-SS Sleeve			X	X																	
SL-166-SA7-SB-1.0-2.0	10.11.11	1040	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-167-SA7-SB-1.0	10.11.11	0930	SOIL	NONE	2-Encores										X											
SL-167-SA7-SB-0.5-1.5	10.11.11	0925	SOIL	NONE	1-SS Sleeve			X	X																	
SL-167-SA7-SB-0.5-1.5	10.11.11	0925	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-168-SA7-SB-1.0	10.11.11	1350	SOIL	NONE	2-Encores										X											
SL-168-SA7-SB-0.5-1.5	10.11.11	1345	SOIL	NONE	1-SS Sleeve			X	X																	
SL-168-SA7-SB-0.5-1.5	10.11.11	1345	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
EB-SA7-SB-101111	10.11.11	1430	WATER	NONE	1-1 L Amber														X							
TB-101111	10.11.11	0800	WATER	NONE	1-1 L Amber														X							HGL ASTM II WATER
TB-101111	10.11.11	0800	SOIL	NONE	1-4 oz Jar														X							
TB-101111	10.11.11	0800	WATER	NONE	2-40 mL Vials										X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	10/11/2011 / 1630	[signature]	10/12/11 0910
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
		8767 9858 5501, 5497	

Laboratory:
Lancaster Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
						*Metals EPA 6010/6020/8847471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8650 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics LPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	
SL-147-SA7-SB-1.5	10.11.11	1120	SOIL	NONE	2-Encores										X										
SL-147-SA7-SB-1.0-2.0	10.11.11	1122	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X					X	X	X	X	
SL-155-SA7-SB-2.0	10.11.11	1228	SOIL	NONE	2-Encores										X										
SL-155-SA7-SB-1.5-2.5	10.11.11	1232	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	
SL-265-SA6-SB-4.5	10.11.11	0843	SOIL	NONE	2-Encores										X										
SL-265-SA6-SB-4.0-5.0	10.11.11	0847	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	
SL-009-SA3-SB-4.0-5.0	10.11.11	1505	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X												

Relinquished by: (*Signature*) | **Date/Time** 10/11/2011 / 1630 | **Received for Laboratory by: (*Signature*)**

Laboratory: Lancaster Laboratories, Inc.

Received by: (*Signature*) | **Date/Time** | **Airbill No.(s)** 8767 9858 5501, 5497

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Wednesday, October 12, 2011 11:05 AM
To: Nicole Maljovec
Cc: Bloisa, Peggy
Subject: Repeated line in 10/11/11 COC

Hi Nicole

I sent you guys a COC with a repeated line, please see my corrected COC. Thanks!

Pam

Explanation of Symbols and Abbreviations

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

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

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

> greater than

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

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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

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

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

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

Lancaster Laboratories

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

Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

October 31, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/12/2011
Group Number: 1270786
SDG: DX148
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-265-SA6-SB-4.0-5.0 Soil	6434481
SL-147-SA7-SB-1.0-2.0 Soil	6434482
SL-155-SA7-SB-1.5-2.5 Soil	6434483
SL-009-SA3-SB-4.0-5.0 Soil	6434484
SL-049-SA7-SB-4.0-5.0 Soil	6434485
SL-162-SA7-SB-0.0-1.0 Soil	6434486
SL-166-SA7-SB-1.0-2.0 Soil	6434487
SL-167-SA7-SB-0.5-1.5 Soil	6434488

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

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

Lancaster Laboratories

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

Analysis Report

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

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-265-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-265-SA6-SB-4.0-5.0

LLI Sample # SW 6434481
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 08:47

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4813 SDG#: DX148-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1

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

Sample Description: SL-265-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-265-SA6-SB-4.0-5.0

LLI Sample # SW 6434481
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 08:47

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4813 SDG#: DX148-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0280	U	0.0280	1.04	1
11031	12378-PeCDD	40321-76-4	0.0256	U	0.0256	5.22	1
11031	123478-HxCDD	39227-28-6	0.0246	JQ	0.0228	5.22	1
11031	123678-HxCDD	57653-85-7	0.0662	JB	0.0211	5.22	1
11031	123789-HxCDD	19408-74-3	0.0835	JBQ	0.0211	5.22	1
11031	1234678-HpCDD	35822-46-9	0.836	JB	0.0292	5.22	1
11031	OCDD	3268-87-9	6.83	JB	0.0256	10.4	1
11031	2378-TCDF	51207-31-9	0.0481	J	0.0230	1.04	1
11031	12378-PeCDF	57117-41-6	0.0336	JB	0.0130	5.22	1
11031	23478-PeCDF	57117-31-4	0.0136	U	0.0136	5.22	1
11031	123478-HxCDF	70648-26-9	0.0509	JBQ	0.0173	5.22	1
11031	123678-HxCDF	57117-44-9	0.0370	JBQ	0.0154	5.22	1
11031	123789-HxCDF	72918-21-9	0.0179	U	0.0179	5.22	1
11031	234678-HxCDF	60851-34-5	0.0898	JBQ	0.0153	5.22	1
11031	1234678-HpCDF	67562-39-4	0.170	JB	0.0167	5.22	1
11031	1234789-HpCDF	55673-89-7	0.0550	JB	0.0256	5.22	1
11031	OCDF	39001-02-0	0.322	JB	0.0272	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	97	23 - 140
13C12-OCDD	100	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	82	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-265-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-265-SA6-SB-4.0-5.0

LLI Sample # SW 6434481
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 08:47

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4813 SDG#: DX148-13

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

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-265-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-265-SA6-SB-4.0-5.0

LLI Sample # SW 6434481
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 08:47

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4813 SDG#: DX148-13

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11293002	10/22/2011 21:15	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11293002	10/20/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-147-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA7-SB-1.0-2.0

LLI Sample # SW 6434482
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:22

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4814 SDG#: DX148-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.3	0.50	0.50	1

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

Sample Description: SL-147-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA7-SB-1.0-2.0

LLI Sample # SW 6434482
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:22

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4814 SDG#: DX148-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0378 U	0.0378	1.07	1
11031	12378-PeCDD	40321-76-4	0.0361 JQ	0.0288	5.33	1
11031	123478-HxCDD	39227-28-6	0.0236 U	0.0236	5.33	1
11031	123678-HxCDD	57653-85-7	0.262 JBQ	0.0241	5.33	1
11031	123789-HxCDD	19408-74-3	0.377 JB	0.0244	5.33	1
11031	1234678-HpCDD	35822-46-9	0.303 JBQ	0.0275	5.33	1
11031	OCDD	3268-87-9	0.495 JB	0.0248	10.7	1
11031	2378-TCDF	51207-31-9	0.0343 JQ	0.0232	1.07	1
11031	12378-PeCDF	57117-41-6	0.0394 JB	0.0147	5.33	1
11031	23478-PeCDF	57117-31-4	0.0496 JB	0.0142	5.33	1
11031	123478-HxCDF	70648-26-9	0.0494 JBQ	0.0162	5.33	1
11031	123678-HxCDF	57117-44-9	0.187 JB	0.0136	5.33	1
11031	123789-HxCDF	72918-21-9	0.122 JBQ	0.0186	5.33	1
11031	234678-HxCDF	60851-34-5	0.0351 JB	0.0143	5.33	1
11031	1234678-HpCDF	67562-39-4	0.0737 JB	0.0137	5.33	1
11031	1234789-HpCDF	55673-89-7	0.0356 JBQ	0.0247	5.33	1
11031	OCDF	39001-02-0	0.125 JBQ	0.0327	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	100	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-147-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA7-SB-1.0-2.0

LLI Sample # SW 6434482
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:22

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4814 SDG#: DX148-14

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

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-147-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA7-SB-1.0-2.0

LLI Sample # SW 6434482
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:22

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4814 SDG#: DX148-14

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11293002	10/22/2011 22:11	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11293002	10/20/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11291162401B	10/18/2011 21:20	Scott W Freisher	1

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Analysis Report

Sample Description: SL-155-SA7-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA7-SB-1.5-2.5

LLI Sample # SW 6434483
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 12:32

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4815 SDG#: DX148-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.0	0.50	0.50	1

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

Sample Description: SL-155-SA7-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA7-SB-1.5-2.5

LLI Sample # SW 6434483
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 12:32

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4815 SDG#: DX148-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0395 U	0.0395	1.04	1
11031	12378-PeCDD	40321-76-4	0.0300 U	0.0300	5.19	1
11031	123478-HxCDD	39227-28-6	0.0301 JQ	0.0216	5.19	1
11031	123678-HxCDD	57653-85-7	0.0334 JB	0.0220	5.19	1
11031	123789-HxCDD	19408-74-3	0.0465 JBQ	0.0216	5.19	1
11031	1234678-HpCDD	35822-46-9	0.292 JBQ	0.0217	5.19	1
11031	OCDD	3268-87-9	1.11 JB	0.0215	10.4	1
11031	2378-TCDF	51207-31-9	0.0419 JQ	0.0332	1.04	1
11031	12378-PeCDF	57117-41-6	0.0395 JBQ	0.0158	5.19	1
11031	23478-PeCDF	57117-31-4	0.0634 JBQ	0.0168	5.19	1
11031	123478-HxCDF	70648-26-9	0.0151 U	0.0151	5.19	1
11031	123678-HxCDF	57117-44-9	0.0272 JBQ	0.0129	5.19	1
11031	123789-HxCDF	72918-21-9	0.0355 JBQ	0.0160	5.19	1
11031	234678-HxCDF	60851-34-5	0.0447 JBQ	0.0130	5.19	1
11031	1234678-HpCDF	67562-39-4	0.122 JBQ	0.0114	5.19	1
11031	1234789-HpCDF	55673-89-7	0.0326 JBQ	0.0201	5.19	1
11031	OCDF	39001-02-0	0.173 JBQ	0.0278	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	96	32 - 141
13C12-123678-HxCDD	97	28 - 130
13C12-123789-HxCDD	96	28 - 130
13C12-1234678-HpCDD	107	23 - 140
13C12-OCDD	120	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	112	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	86	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-155-SA7-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA7-SB-1.5-2.5

LLI Sample # SW 6434483
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 12:32

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4815 SDG#: DX148-15

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

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-155-SA7-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA7-SB-1.5-2.5

LLI Sample # SW 6434483
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 12:32

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4815 SDG#: DX148-15

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11293002	10/22/2011 23:08	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11293002	10/20/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA3-SB-4.0-5.0

LLI Sample # SW 6434484
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:05

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4816 SDG#: DX148-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

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

Sample Description: SL-009-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA3-SB-4.0-5.0

LLI Sample # SW 6434484
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:05

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4816 SDG#: DX148-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0717	JQ	0.0417	1.08	1
11031	12378-PeCDD	40321-76-4	0.560	J	0.0562	5.39	1
11031	123478-HxCDD	39227-28-6	0.602	J	0.0606	5.39	1
11031	123678-HxCDD	57653-85-7	6.08	B	0.0603	5.39	1
11031	123789-HxCDD	19408-74-3	2.38	JB	0.0576	5.39	1
11031	1234678-HpCDD	35822-46-9	218	B	0.142	5.39	1
11031	OCDD	3268-87-9	2,250	B	0.160	10.8	1
11031	2378-TCDF	51207-31-9	1.34	C	0.109	1.08	1
11031	12378-PeCDF	57117-41-6	1.27	JB	0.0586	5.39	1
11031	23478-PeCDF	57117-31-4	9.79	B	0.0520	5.39	1
11031	123478-HxCDF	70648-26-9	2.11	JB	0.0465	5.39	1
11031	123678-HxCDF	57117-44-9	2.85	JB	0.0445	5.39	1
11031	123789-HxCDF	72918-21-9	0.720	JB	0.0501	5.39	1
11031	234678-HxCDF	60851-34-5	5.33	JB	0.0421	5.39	1
11031	1234678-HpCDF	67562-39-4	20.2	B	0.0383	5.39	1
11031	1234789-HpCDF	55673-89-7	1.29	JB	0.0477	5.39	1
11031	OCDF	39001-02-0	58.3	B	0.0397	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	95	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	99	23 - 140
13C12-OCDD	108	17 - 157
13C12-2378-TCDF	88	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	89	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	91	26 - 138
13C12-OCDF	99	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA3-SB-4.0-5.0

LLI Sample # SW 6434484
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:05

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4816 SDG#: DX148-16

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

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA3-SB-4.0-5.0

LLI Sample # SW 6434484
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:05

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4816 SDG#: DX148-16

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11293002	10/23/2011 00:04	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11293002	10/20/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11291162401B	10/18/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SB-4.0-5.0

LLI Sample # SW 6434485
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:25

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4817 SDG#: DX148-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.9	0.50	0.50	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SB-4.0-5.0

LLI Sample # SW 6434485
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:25

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4817 SDG#: DX148-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0573	JQ	0.0318	1.03	1
11031	12378-PeCDD	40321-76-4	0.258	J	0.0320	5.14	1
11031	123478-HxCDD	39227-28-6	0.171	JQ	0.0354	5.14	1
11031	123678-HxCDD	57653-85-7	0.352	JB	0.0352	5.14	1
11031	123789-HxCDD	19408-74-3	0.276	JB	0.0344	5.14	1
11031	1234678-HpCDD	35822-46-9	7.23	B	0.0433	5.14	1
11031	OCDD	3268-87-9	70.5	B	0.0492	10.3	1
11031	2378-TCDF	51207-31-9	0.114	J	0.0235	1.03	1
11031	12378-PeCDF	57117-41-6	0.336	JB	0.0170	5.14	1
11031	23478-PeCDF	57117-31-4	0.259	JBQ	0.0166	5.14	1
11031	123478-HxCDF	70648-26-9	0.186	JB	0.0246	5.14	1
11031	123678-HxCDF	57117-44-9	0.167	JB	0.0221	5.14	1
11031	123789-HxCDF	72918-21-9	0.125	JB	0.0255	5.14	1
11031	234678-HxCDF	60851-34-5	0.142	JBQ	0.0217	5.14	1
11031	1234678-HpCDF	67562-39-4	1.02	JB	0.0186	5.14	1
11031	1234789-HpCDF	55673-89-7	0.0862	JB	0.0286	5.14	1
11031	OCDF	39001-02-0	2.31	JB	0.0309	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	100	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	82	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-049-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SB-4.0-5.0

LLI Sample # SW 6434485
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:25

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4817 SDG#: DX148-17

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

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SB-4.0-5.0

LLI Sample # SW 6434485
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:25

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4817 SDG#: DX148-17

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11293002	10/23/2011 01:01	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11293002	10/20/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-162-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA7-SB-0.0-1.0

LLI Sample # SW 6434486
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:15

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4818 SDG#: DX148-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.4	0.50	0.50	1

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

Sample Description: SL-162-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA7-SB-0.0-1.0

LLI Sample # SW 6434486
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:15

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4818 SDG#: DX148-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0273	U	0.0273	1.01	1
11031	12378-PeCDD	40321-76-4	0.385	JQ	0.0332	5.05	1
11031	123478-HxCDD	39227-28-6	0.392	JQ	0.0438	5.05	1
11031	123678-HxCDD	57653-85-7	1.02	JBQ	0.0452	5.05	1
11031	123789-HxCDD	19408-74-3	0.697	JB	0.0409	5.05	1
11031	1234678-HpCDD	35822-46-9	30.2	B	0.0673	5.05	1
11031	OCDD	3268-87-9	323	B	0.0766	10.1	1
11031	2378-TCDF	51207-31-9	0.0823	J	0.0234	1.01	1
11031	12378-PeCDF	57117-41-6	0.308	JB	0.0183	5.05	1
11031	23478-PeCDF	57117-31-4	0.328	JBQ	0.0178	5.05	1
11031	123478-HxCDF	70648-26-9	0.301	JB	0.0288	5.05	1
11031	123678-HxCDF	57117-44-9	0.209	JBQ	0.0263	5.05	1
11031	123789-HxCDF	72918-21-9	0.126	JBQ	0.0279	5.05	1
11031	234678-HxCDF	60851-34-5	0.307	JBQ	0.0246	5.05	1
11031	1234678-HpCDF	67562-39-4	4.04	JB	0.0239	5.05	1
11031	1234789-HpCDF	55673-89-7	0.375	JB	0.0333	5.05	1
11031	OCDF	39001-02-0	9.98	JB	0.0310	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	97	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	85	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-162-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA7-SB-0.0-1.0

LLI Sample # SW 6434486
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:15

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4818 SDG#: DX148-18

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

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-162-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA7-SB-0.0-1.0

LLI Sample # SW 6434486
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:15

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4818 SDG#: DX148-18

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11293002	10/23/2011 05:01	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11293002	10/20/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-166-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA7-SB-1.0-2.0

LLI Sample # SW 6434487
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 10:40

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4819 SDG#: DX148-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.3	0.50	0.50	1

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

Sample Description: SL-166-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA7-SB-1.0-2.0

LLI Sample # SW 6434487
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 10:40

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4819 SDG#: DX148-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.116	J	0.0336	1.02	1
11031	12378-PeCDD	40321-76-4	1.76	J	0.0703	5.09	1
11031	123478-HxCDD	39227-28-6	4.14	J	0.0740	5.09	1
11031	123678-HxCDD	57653-85-7	18.3	B	0.0782	5.09	1
11031	123789-HxCDD	19408-74-3	9.20	B	0.0757	5.09	1
11031	1234678-HpCDD	35822-46-9	479	B	0.168	5.09	1
11031	OCDD	3268-87-9	4,110	EB	0.147	10.2	1
11031	2378-TCDF	51207-31-9	0.250	JQ	0.0443	1.02	1
11031	12378-PeCDF	57117-41-6	0.645	JB	0.0307	5.09	1
11031	23478-PeCDF	57117-31-4	0.861	JB	0.0329	5.09	1
11031	123478-HxCDF	70648-26-9	2.06	JB	0.0599	5.09	1
11031	123678-HxCDF	57117-44-9	2.41	JB	0.0495	5.09	1
11031	123789-HxCDF	72918-21-9	0.544	JB	0.0706	5.09	1
11031	234678-HxCDF	60851-34-5	4.65	JB	0.0527	5.09	1
11031	1234678-HpCDF	67562-39-4	56.7	B	0.0421	5.09	1
11031	1234789-HpCDF	55673-89-7	5.59	B	0.0796	5.09	1
11031	OCDF	39001-02-0	137	B	0.0571	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	100	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	71	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-166-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA7-SB-1.0-2.0

LLI Sample # SW 6434487
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 10:40

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4819 SDG#: DX148-19

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

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-166-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA7-SB-1.0-2.0

LLI Sample # SW 6434487
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 10:40

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4819 SDG#: DX148-19

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11293002	10/23/2011 05:57	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11293002	10/20/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-167-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA7-SB-0.5-1.5

LLI Sample # SW 6434488
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 09:25

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4820 SDG#: DX148-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.0	0.50	0.50	1

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

Sample Description: SL-167-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA7-SB-0.5-1.5

LLI Sample # SW 6434488
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 09:25

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4820 SDG#: DX148-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0256	U	0.0256	1.03	1
11031	12378-PeCDD	40321-76-4	0.450	JQ	0.0356	5.13	1
11031	123478-HxCDD	39227-28-6	0.765	J	0.0452	5.13	1
11031	123678-HxCDD	57653-85-7	2.70	JB	0.0459	5.13	1
11031	123789-HxCDD	19408-74-3	1.50	JB	0.0484	5.13	1
11031	1234678-HpCDD	35822-46-9	74.3	B	0.0821	5.13	1
11031	OCDD	3268-87-9	742	B	0.0854	10.3	1
11031	2378-TCDF	51207-31-9	0.138	JQ	0.0376	1.03	1
11031	12378-PeCDF	57117-41-6	0.199	JBQ	0.0351	5.13	1
11031	23478-PeCDF	57117-31-4	0.439	JBQ	0.0333	5.13	1
11031	123478-HxCDF	70648-26-9	0.645	JB	0.0320	5.13	1
11031	123678-HxCDF	57117-44-9	0.447	JBQ	0.0304	5.13	1
11031	123789-HxCDF	72918-21-9	0.169	JB	0.0340	5.13	1
11031	234678-HxCDF	60851-34-5	0.655	JB	0.0293	5.13	1
11031	1234678-HpCDF	67562-39-4	9.05	B	0.0286	5.13	1
11031	1234789-HpCDF	55673-89-7	0.779	JB	0.0365	5.13	1
11031	OCDF	39001-02-0	21.0	B	0.0269	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	99	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	88	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-167-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA7-SB-0.5-1.5

LLI Sample # SW 6434488
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 09:25

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

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

X4820 SDG#: DX148-20*

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

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

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X4820 SDG#: DX148-20*

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11293002	10/23/2011 06:54	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11293002	10/20/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270786
Reported: 10/31/11 at 02:03 PM

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

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11291162401B	Sample number(s): 6434482,6434484								
Moisture Content by 160.3					100		80-120		
Batch number: 11298162401A	Sample number(s): 6434481,6434483,6434485-6434488								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11293002	Sample number(s): 6434481-6434488								
2378-TCDD	0.0314 U	0.0314	1.00	ng/kg	106		67-158		
12378-PeCDD	0.0231 U	0.0231	5.00	ng/kg	105		70-142		
123478-HxCDD	0.0172 U	0.0172	5.00	ng/kg	100		70-164		
123678-HxCDD	0.0373 J	0.0179	5.00	ng/kg	96		76-134		
123789-HxCDD	0.0323 J	0.0162	5.00	ng/kg	101		64-162		
1234678-HpCDD	0.244 J	0.0198	5.00	ng/kg	99		70-140		
OCDD	0.356 J	0.0157	10.0	ng/kg	96		78-144		
2378-TCDF	0.0253 U	0.0253	1.00	ng/kg	101		75-158		
12378-PeCDF	0.0371 J	0.0138	5.00	ng/kg	103		80-134		
23478-PeCDF	0.0800 J	0.0135	5.00	ng/kg	95		68-160		
123478-HxCDF	0.0412 J	0.0144	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0308 J	0.0122	5.00	ng/kg	99		84-130		
123789-HxCDF	0.0261 J	0.0158	5.00	ng/kg	100		78-130		
234678-HxCDF	0.0373 J	0.0132	5.00	ng/kg	97		70-156		
1234678-HpCDF	0.0886 J	0.00730	5.00	ng/kg	91		82-122		
1234789-HpCDF	0.0364 J	0.0126	5.00	ng/kg	98		78-138		
OCDF	0.107 J	0.0264	10.0	ng/kg	98		63-170		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11291162401B	Sample number(s): 6434482,6434484 BKG: P431141								
Moisture Content by 160.3						4.4	4.3	2	20
Batch number: 11298162401A	Sample number(s): 6434481,6434483,6434485-6434488 BKG: P435690								
Moisture Content by 160.3						2.2	2.3	4 (1)	20
Batch number: 11293002	Sample number(s): 6434481-6434488 UNSPK: P430041								

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270786
Reported: 10/31/11 at 02:03 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDD	107	108	67-158	1	25				
12378-PeCDD	105	105	70-142	0	25				
123478-HxCDD	99	101	70-164	2	25				
123678-HxCDD	95	96	76-134	1	25				
123789-HxCDD	102	102	64-162	0	25				
1234678-HpCDD	100	100	70-140	0	25				
OCDD	99	96	78-144	3	25				
2378-TCDF	101	99	75-158	2	25				
12378-PeCDF	103	102	80-134	0	25				
23478-PeCDF	96	95	68-160	0	25				
123478-HxCDF	98	100	72-134	3	25				
123678-HxCDF	101	100	84-130	1	25				
123789-HxCDF	101	100	78-130	1	25				
234678-HxCDF	99	98	70-156	1	25				
1234678-HpCDF	91	92	82-122	0	25				
1234789-HpCDF	99	98	78-138	1	25				
OCDF	98	98	63-170	0	25				

Surrogate Quality Control

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

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11293002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6434481	84	79	73	79	78	78
6434482	66	66	62	72	71	65
6434483	78	77	67	81	79	74
6434484	87	83	81	84	87	89
6434485	79	75	72	79	80	80
6434486	76	72	66	73	74	80
6434487	77	69	66	77	75	66
6434488	82	76	74	78	84	82
Blank	68	69	64	75	69	68
MS	70	68	68	78	75	72
MSD	74	74	71	78	78	75
OPR	66	68	65	72	69	73
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6434481	101	79	82	83	84	93
6434482	98	68	73	74	86	85
6434483	112	78	86	88	96	97
6434484	92	91	99	82	95	94
6434485	98	78	82	78	89	92
6434486	88	79	85	73	80	81

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270786
Reported: 10/31/11 at 02:03 PM

Surrogate Quality Control

6434487	99	65	71	78	90	90
6434488	87	82	88	76	89	91
Blank	103	73	82	78	84	85
MS	102	72	78	75	89	88
MSD	96	80	87	78	89	89
OPR	96	76	84	74	80	81
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6434481	91	97	100	80	87
6434482	83	91	100	61	72
6434483	96	107	120	69	87
6434484	92	99	108	88	83
6434485	90	93	100	78	81
6434486	83	90	97	77	77
6434487	88	91	100	72	79
6434488	87	90	99	83	79
Blank	86	98	111	61	75
MS	87	94	105	66	76
MSD	87	94	105	73	80
OPR	81	93	104	61	71
Limits:	28-130	23-140	17-157	24-169	24-185

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

acct# 13013 Cp# 1270756 Sample# 6434451-88

CHAIN OF CUSTODY RECORD

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

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCT$ EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
						PRIMARY FOR ALL LOCATIONS										SECONDARY FOR ALL LOCATIONS											
SL-265-SA6-SB-4.5	10.11.11	0843	SOIL	NONE	2-Encores										X											
SL-265-SA6-SB-4.0-5.0	10.11.11	0847	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-147-SA7-SB-1.5	10.11.11	1120	SOIL	NONE	2-Encores										X											
SL-147-SA7-SB-1.0-2.0	10.11.11	1122	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X					X	X	X	X		
SL-155-SA7-SB-2.0	10.11.11	1228	SOIL	NONE	2-Encores										X											
SL-155-SA7-SB-1.5-2.5	10.11.11	1232	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-265-SA6-SB-4.5	10.11.11	0843	SOIL	NONE	2-Encores										X											
SL-265-SA6-SB-4.0-5.0	10.11.11	0847	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-009-SA3-SB-4.0-5.0	10.11.11	1505	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/11/2011 / 1630	LLI 10/12/11 0900	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8767 9858 5501, 5497	

acct# 13013 Gp# 1270756 Sample# 643451-88

CHAIN OF CUSTODY RECORD

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

NOTES:
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For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS										
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-049-SA7-SB-4.5	10.11.11	1525	SOIL	NONE	1-SS Sleeve										X										
SL-049-SA7-SB-4.0-5.0	10.11.11	1525	SOIL	NONE	1-SS Sleeve			X	X																
SL-049-SA7-SB-4.0-5.0	10.11.11	1525	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X	
SL-162-SA7-SB-0.0-1.0	10.11.11	1115	SOIL	NONE	1-SS Sleeve			X	X																
SL-162-SA7-SB-0.0-1.0	10.11.11	1115	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X	
SL-166-SA7-SB-1.5	10.11.11	1045	SOIL	NONE	2-Encores										X										
SL-166-SA7-SB-1.0-2.0	10.11.11	1040	SOIL	NONE	1-SS Sleeve			X	X																
SL-166-SA7-SB-1.0-2.0	10.11.11	1040	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X	
SL-167-SA7-SB-1.0	10.11.11	0930	SOIL	NONE	2-Encores										X										
SL-167-SA7-SB-0.5-1.5	10.11.11	0925	SOIL	NONE	1-SS Sleeve			X	X																
SL-167-SA7-SB-0.5-1.5	10.11.11	0925	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X	
SL-168-SA7-SB-1.0	10.11.11	1350	SOIL	NONE	2-Encores										X										
SL-168-SA7-SB-0.5-1.5	10.11.11	1345	SOIL	NONE	1-SS Sleeve			X	X																
SL-168-SA7-SB-0.5-1.5	10.11.11	1345	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X	
EB-SA7-SB-101111	10.11.11	1430	WATER	NONE	1-1 L Amber														X						HGL ASTM II WATER
TB-101111	10.11.11	0800	WATER	NONE	1-1 L Amber														X						
TB-101111	10.11.11	0800	SOIL	NONE	1-4 oz Jar														X						
TB-101111	10.11.11	0800	WATER	NONE	2-40 mL Vials										X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/11/2011 / 1630	LCL 10/12/11 0900	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8767 9858 5501, 5497	

CHAIN OF CUSTODY RECORD

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

NOTES:
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**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	
SL-147-SA7-SB-1.5	10.11.11	1120	SOIL	NONE	2-Encores										X										
SL-147-SA7-SB-1.0-2.0	10.11.11	1122	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X					X	X	X	X	
SL-155-SA7-SB-2.0	10.11.11	1228	SOIL	NONE	2-Encores										X										
SL-155-SA7-SB-1.5-2.5	10.11.11	1232	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	
SL-265-SA6-SB-4.5	10.11.11	0843	SOIL	NONE	2-Encores										X										
SL-265-SA6-SB-4.0-5.0	10.11.11	0847	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	
SL-009-SA3-SB-4.0-5.0	10.11.11	1505	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X												

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/11/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8767 9858 5501, 5497	

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Wednesday, October 12, 2011 11:05 AM
To: Nicole Maljovec
Cc: Bloisa, Peggy
Subject: Repeated line in 10/11/11 COC

Hi Nicole

I sent you guys a COC with a repeated line, please see my corrected COC. Thanks!

Pam

Explanation of Symbols and Abbreviations

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

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

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

> greater than

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

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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

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

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

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Lancaster Laboratories

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

Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

November 03, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/13/2011
Group Number: 1271034
SDG: DE267
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-011-SA3-SB-4.0-5.0 Soil	6435690
SL-011-SA3-SB-4.0-5.0MS Soil	6435691
SL-011-SA3-SB-4.0-5.0MSD Soil	6435692
SL-011-SA3-SB-4.0-5.0DUP Soil	6435693
SL-011-SA3-SB-4.0-5.0RL MS Soil	6435694
SL-011-SA3-SB-4.0-5.0RL LCS Soil	6435695
SL-096-SA7-SB-2.0-3.0 Soil	6435696
DUP01-SA3-QC-101211 Soil	6435697
EB-SA3-SB-101211 Water	6435698
TB-101211 Water	6435699
TB-101211 Sand	6435700
TB-101211 Water	6435701
EB-SA3-SB-101211 Water	6435702

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

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

Lancaster Laboratories

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

Analysis Report

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

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435690
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6701 SDG#: DE267-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	17.0	U	17.0	34.1		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435690
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
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Suite 210
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E6701 SDG#: DE267-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	J	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	J	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.0	U	6.0	18		1
10138	Fluoranthene	206-44-0	0.67	U	0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	0.67	U	0.67	1.7		1
10138	Pyrene	129-00-0	0.67	U	0.67	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	3.2		0.2	1.0		24.65
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1

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Account # 13013

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E6701 SDG#: DE267-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	0.48	J	0.40	1.7		1

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Sample Description: SL-011-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	0.45	J	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	1.7		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	5.1		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,830		6.01	19.9		1
07914	Boron	7440-42-8	3.50	J	0.357	4.96		1
01650	Calcium	7440-70-2	5,160		2.48	19.9		1
01654	Iron	7439-89-6	17,400		2.59	19.9		1
01656	Lithium	7439-93-2	24.7		0.62	2.0		1
01657	Magnesium	7439-95-4	3,410		0.437	9.93		1
06958	Manganese	7439-96-5	238		0.0357	0.496		1
10145	Phosphorus	7723-14-0	289		0.347	9.93		1
01662	Potassium	7440-09-7	1,970		11.2	49.6		1
01667	Sodium	7440-23-5	89.3	J	5.91	99.3		1
07968	Strontium	7440-24-6	19.5		0.0248	0.496		1
06969	Tin	7440-31-5	2.72	J	0.318	9.93		1
06970	Titanium	7440-32-6	1,080		0.0698	0.983		1
10146	Zirconium	7440-67-7	2.86	J	0.457	4.96		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0749	U	0.0749	0.202		2

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Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.41		0.0810	0.405		2
06126	Barium	7440-39-3	85.2		0.107	0.405		2
06127	Beryllium	7440-41-7	0.689		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.127		0.0445	0.101		2
06131	Chromium	7440-47-3	17.8		0.121	0.405		2
06132	Cobalt	7440-48-4	6.94		0.0202	0.101		2
06133	Copper	7440-50-8	9.20		0.0810	0.405		2
06135	Lead	7439-92-1	8.25		0.0103	0.202		2
06138	Molybdenum	7439-98-7	0.290		0.0506	0.101		2
06139	Nickel	7440-02-0	12.3		0.101	0.405		2
06141	Selenium	7782-49-2	0.167	J	0.0587	0.405		2
06142	Silver	7440-22-4	0.0395	J	0.0144	0.101		2
06145	Thallium	7440-28-0	0.312		0.0304	0.101		2
06148	Vanadium	7440-62-2	35.2		0.0223	0.101		2
06149	Zinc	7440-66-6	68.2		0.567	3.04		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.0	J	0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.55		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6701 SDG#: DE267-01BKG

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-011-SA3-SB-4.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11290SLD026	11/01/2011 21:10	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11290SLE026	10/20/2011 14:00	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11287SLB026	10/17/2011 15:13	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11290SLD026	10/18/2011 06:55	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11287SLB026	10/14/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11290B16A	10/17/2011 20:44	Laura M Krieger	24.65
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128625838	10/13/2011 12:43	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128625838	10/13/2011 12:44	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 18:04	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910002A	10/19/2011 19:34	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112900017A	10/21/2011 04:37	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112900017A	10/18/2011 10:15	Denise L Trimby	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910002A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900025A	10/17/2011 19:32	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112930029A	10/20/2011 20:02	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/24/2011 18:22	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112910012A	10/20/2011 20:51	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112910012A	10/18/2011 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900025A	10/17/2011 18:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112930029A	10/20/2011 16:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112875708002	10/24/2011 00:57	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112875708002	10/24/2011 00:57	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112875708002	10/24/2011 00:57	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112875708002	10/24/2011 00:57	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112875708002	10/24/2011 00:57	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112875708002	10/24/2011 00:57	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112875708002	10/24/2011 00:57	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112875708002	10/24/2011 00:57	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112875708002	10/24/2011 00:57	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112875708002	10/24/2011 00:57	Tara L Snyder	1

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

Sample Description: SL-011-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435690
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6701 SDG#: DE267-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112875708002	10/24/2011 00:57	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112875708002	10/24/2011 00:57	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112975708004	10/25/2011 13:50	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112875708002	10/24/2011 00:57	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112871026001A	10/18/2011 04:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112871026001A	10/18/2011 04:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112871026001D	10/18/2011 04:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112871026001A	10/18/2011 04:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112871026001A	10/18/2011 04:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112871026001A	10/18/2011 04:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112871026001A	10/18/2011 04:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112871026001A	10/18/2011 04:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112871026001A	10/18/2011 04:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112871026001C	10/19/2011 18:28	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	112871026001A	10/18/2011 04:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112871026001B	10/18/2011 04:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112871026001A	10/18/2011 04:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112871026001A	10/18/2011 04:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112871026001A	10/18/2011 04:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112871026001A	10/18/2011 04:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112875711001	10/17/2011 18:57	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112875708002	10/17/2011 10:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112975708004	10/24/2011 21:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112871026001	10/17/2011 11:24	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112875711001	10/17/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201B	10/25/2011 23:19	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11297495201B	10/25/2011 23:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202B	10/20/2011 06:12	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11291243201A	10/20/2011 14:28	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201A	10/21/2011 08:01	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201B	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202B	10/19/2011 08:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201A	10/20/2011 15:35	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402A	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

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Lancaster Laboratories

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

Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435691
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6701 SDG#: DE267-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	883		17.0	34.0		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700		17	170		1
04688	Acenaphthylene	208-96-8	1,800		17	170		1
04688	Aniline	62-53-3	1,200		170	510		1
04688	Anthracene	120-12-7	1,700		17	170		1
04688	Benzidine	92-87-5	3,300	J	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	1,700		17	170		1
04688	Benzo(a)pyrene	50-32-8	1,700		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	1,800		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,900		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,600		17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	1,800		170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		17	170		1
04688	Butylbenzylphthalate	85-68-7	1,700		17	170		1
04688	Di-n-butylphthalate	84-74-2	1,600		17	170		1
04688	Carbazole	86-74-8	1,600		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,900		34	170		1
04688	4-Chloroaniline	106-47-8	1,100		68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		17	170		1
04688	2-Chloronaphthalene	91-58-7	1,400		17	170		1
04688	2-Chlorophenol	95-57-8	1,700		17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		34	170		1
04688	Chrysene	218-01-9	1,600		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	1,900		17	170		1
04688	Dibenzofuran	132-64-9	1,700		17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,500		17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,400		17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,400		17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	940		100	340		1
04688	2,4-Dichlorophenol	120-83-2	1,700		17	170		1
04688	Diethylphthalate	84-66-2	1,600		17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,800		34	170		1
04688	3,5-Dimethylphenol	108-68-9	2,000		34	170		1
04688	Dimethylphthalate	131-11-3	1,700		17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	J	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	1,700		34	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,800		17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		17	340		1
04688	Fluoranthene	206-44-0	1,700		17	170		1
04688	Fluorene	86-73-7	1,700		17	170		1
04688	Hexachlorobenzene	118-74-1	1,800		17	170		1
04688	Hexachlorobutadiene	87-68-3	1,600		68	170		1

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Sample Description: SL-011-SA3-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435691
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

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E6701 SDG#: DE267-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorocyclopentadiene	77-47-4	1,600		170	510		1
04688	Hexachloroethane	67-72-1	1,400		17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900		17	170		1
04688	Isophorone	78-59-1	1,800		17	170		1
04688	1-Methylnaphthalene	90-12-0	1,600		17	170		1
04688	2-Methylnaphthalene	91-57-6	1,700		17	170		1
04688	2-Methylphenol	95-48-7	1,800		34	170		1
04688	4-Methylphenol	106-44-5	1,800		34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,600		17	170		1
04688	2-Nitroaniline	88-74-4	1,800		17	170		1
04688	3-Nitroaniline	99-09-2	1,600		34	170		1
04688	4-Nitroaniline	100-01-6	1,300		68	170		1
04688	Nitrobenzene	98-95-3	1,800		17	170		1
04688	2-Nitrophenol	88-75-5	1,500		17	170		1
04688	4-Nitrophenol	100-02-7	1,100		170	510		1
04688	N-Nitrosodimethylamine	62-75-9	1,700		34	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700		17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700		17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,800		17	170		1
04688	Pentachlorophenol	87-86-5	400	J	170	510		1
04688	Phenanthrene	85-01-8	1,600		17	170		1
04688	Phenol	108-95-2	1,800		17	170		1
04688	Pyrene	129-00-0	1,700		17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600		17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,600		34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,400		34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	27		0.67	1.7		1
10138	Acenaphthylene	208-96-8	27		0.34	1.7		1
10138	Anthracene	120-12-7	30		0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	29		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	29		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	34		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	16		0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	30		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	24		6.0	18		1
10138	Di-n-butylphthalate	84-74-2	28		6.0	18		1
10138	Chrysene	218-01-9	29		0.34	1.7		1

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E6701 SDG#: DE267-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	19		0.67	1.7		1
10138	Diethylphthalate	84-66-2	27		6.0	18		1
10138	Dimethylphthalate	131-11-3	29		6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	26		6.0	18		1
10138	Fluoranthene	206-44-0	39		0.67	1.7		1
10138	Fluorene	86-73-7	28		0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	19		0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	24		0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	24		0.67	1.7		1
10138	Naphthalene	91-20-3	27		0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	27		0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	31		6.0	18		1
10138	Phenanthrene	85-01-8	28		0.67	1.7		1
10138	Pyrene	129-00-0	22		0.67	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	20		0.2	1.1		25.83
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,200		61	120		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,200		41	120		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250		1
10132	1,3-Dinitrobenzene	99-65-0	2,300		41	120		1
10132	2,4-Dinitrotoluene	121-14-2	2,100		41	120		1
10132	2,6-Dinitrotoluene	606-20-2	2,200		41	120		1
10132	HMX	2691-41-0	1,900		100	310		1
10132	Nitrobenzene	98-95-3	2,200		41	120		1
10132	Nitroglycerin	55-63-0	49,000		820	2,500		1
10132	2-Nitrotoluene	88-72-2	2,100		82	120		1
10132	3-Nitrotoluene	99-08-1	2,300		100	120		1
10132	4-Nitrotoluene	99-99-0	2,100		82	120		1
10132	PETN	78-11-5	53,000		820	2,500		1
10132	RDX	121-82-4	2,100		51	120		1
10132	Tetryl	479-45-8	1,900		63	120		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,100		41	120		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,200		41	120		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	4,900		610	1,500		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	2.1	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	16		0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1

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

Sample Description: SL-011-SA3-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435691
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6701 SDG#: DE267-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	19		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,000		100	510		1
10501	Isopropanol	67-63-0	1,900		100	510		1
10501	Methanol	67-56-1	2,000		100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	11		5.1	10		1
08283	Ethylene glycol	107-21-1	92		5.1	10		1
08283	Propylene glycol	57-55-6	130		5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	7.8		1.5	3.6		1
10318	o-Terphenyl	84-15-1	9.1		1.5	3.6		1
10318	p-Terphenyl	92-94-4	7.3		1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.65	J	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	1.3		0.41	1.2		1
10199	EFH (C21-C30)	n.a.	4.5		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	9.3		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.51	J	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		6.01	19.9		1
07914	Boron	7440-42-8	188		0.357	4.96		1
01650	Calcium	7440-70-2	4,720		2.48	19.9		1
01654	Iron	7439-89-6	19,400		2.59	19.9		1
01656	Lithium	7439-93-2	125		0.62	2.0		1
01657	Magnesium	7439-95-4	3,930		0.437	9.93		1
06958	Manganese	7439-96-5	302		0.0357	0.496		1
10145	Phosphorus	7723-14-0	372		0.347	9.93		1
01662	Potassium	7440-09-7	3,220		11.2	49.6		1
01667	Sodium	7440-23-5	1,060		5.91	99.3		1
07968	Strontium	7440-24-6	114		0.0248	0.496		1
06969	Tin	7440-31-5	365		0.318	9.93		1
06970	Titanium	7440-32-6	1,340		0.0705	0.993		1

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Sample Description: SL-011-SA3-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435691
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6701 SDG#: DE267-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	98.2	0.457	4.96		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.676	0.0721	0.195		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.66	0.0779	0.390		2
06126	Barium	7440-39-3	89.8	0.103	0.390		2
06127	Beryllium	7440-41-7	1.53	0.0156	0.0974		2
06128	Cadmium	7440-43-9	1.38	0.0428	0.0974		2
06131	Chromium	7440-47-3	28.2	0.117	0.390		2
06132	Cobalt	7440-48-4	69.3	0.0195	0.0974		2
06133	Copper	7440-50-8	21.0	0.0779	0.390		2
06135	Lead	7439-92-1	12.2	0.0099	0.195		2
06138	Molybdenum	7439-98-7	13.2	0.0487	0.0974		2
06139	Nickel	7440-02-0	23.7	0.0974	0.390		2
06141	Selenium	7782-49-2	2.51	0.0565	0.390		2
06142	Silver	7440-22-4	12.8	0.0138	0.0974		2
06145	Thallium	7440-28-0	0.781	0.0292	0.0974		2
06148	Vanadium	7440-62-2	43.5	0.0214	0.0974		2
06149	Zinc	7440-66-6	68.7	0.545	2.92		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.163	0.0067	0.0956		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.9	0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	10.8	0.83	1.5		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	573	9.2	30.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	36.1	0.20	1.0		5
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	4.5	0.18	0.51		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	2.2	0.50	0.50		1

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Sample Description: SL-011-SA3-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435691
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6701 SDG#: DE267-01MS

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-011-SA3-SB-4.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11290SLD026	11/01/2011 21:29	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11290SLE026	10/20/2011 14:25	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11287SLB026	10/17/2011 15:46	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11290SLD026	10/18/2011 06:55	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11287SLB026	10/14/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11290B16A	10/17/2011 21:22	Laura M Krieger	25.83
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128625838	10/13/2011 12:45	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128625838	10/13/2011 12:46	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 18:46	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910002A	10/20/2011 16:19	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112900017A	10/21/2011 04:56	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112900017A	10/18/2011 10:15	Denise L Trimby	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910002A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900025A	10/17/2011 20:22	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112930029A	10/20/2011 20:15	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/24/2011 18:44	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112910012A	10/20/2011 21:15	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112910012A	10/18/2011 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900025A	10/17/2011 18:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112930029A	10/20/2011 16:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112875708002	10/24/2011 01:09	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112875708002	10/24/2011 01:09	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112875708002	10/24/2011 01:09	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112875708002	10/24/2011 01:09	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112875708002	10/24/2011 01:09	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112875708002	10/24/2011 01:09	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112875708002	10/24/2011 01:09	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112875708002	10/24/2011 01:09	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112875708002	10/24/2011 01:09	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112875708002	10/24/2011 01:09	Tara L Snyder	1

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Sample Description: SL-011-SA3-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435691
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6701 SDG#: DE267-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112875708002	10/24/2011 01:09	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112875708002	10/24/2011 01:09	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112975708004	10/25/2011 14:02	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112875708002	10/24/2011 01:09	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112871026001A	10/18/2011 05:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112871026001A	10/18/2011 05:05	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112871026001D	10/18/2011 05:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112871026001A	10/18/2011 05:05	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112871026001A	10/18/2011 05:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112871026001A	10/18/2011 05:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112871026001A	10/18/2011 05:05	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112871026001A	10/18/2011 05:05	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112871026001A	10/18/2011 05:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112871026001C	10/18/2011 05:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112871026001A	10/18/2011 05:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112871026001B	10/18/2011 05:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112871026001A	10/18/2011 05:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112871026001A	10/18/2011 05:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112871026001A	10/18/2011 05:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112871026001A	10/18/2011 05:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112875711001	10/17/2011 19:00	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112875708002	10/17/2011 10:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112975708004	10/24/2011 21:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112871026001	10/17/2011 11:24	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112875711001	10/17/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201B	10/25/2011 23:51	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11297495201B	10/25/2011 23:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202B	10/20/2011 07:21	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11291243201A	10/21/2011 10:49	Elyse P Brunstetter	5
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201A	10/21/2011 08:02	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201B	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202B	10/19/2011 08:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201A	10/20/2011 15:35	Carolyn M Mastropietro	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

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Lancaster Laboratories

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

Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435692
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6701 SDG#: DE267-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	881		17.0	34.0		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700		17	170		1
04688	Acenaphthylene	208-96-8	1,800		17	170		1
04688	Aniline	62-53-3	1,200		170	510		1
04688	Anthracene	120-12-7	1,700		17	170		1
04688	Benzidine	92-87-5	3,100	J	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	1,600		17	170		1
04688	Benzo(a)pyrene	50-32-8	1,700		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,600		17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	1,800		170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		17	170		1
04688	Butylbenzylphthalate	85-68-7	1,600		17	170		1
04688	Di-n-butylphthalate	84-74-2	1,600		17	170		1
04688	Carbazole	86-74-8	1,600		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,900		34	170		1
04688	4-Chloroaniline	106-47-8	1,100		68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		17	170		1
04688	2-Chloronaphthalene	91-58-7	1,300		17	170		1
04688	2-Chlorophenol	95-57-8	1,700		17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		34	170		1
04688	Chrysene	218-01-9	1,600		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	1,800		17	170		1
04688	Dibenzofuran	132-64-9	1,600		17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,400		17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,400		17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,400		17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,000		100	340		1
04688	2,4-Dichlorophenol	120-83-2	1,800		17	170		1
04688	Diethylphthalate	84-66-2	1,600		17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,800		34	170		1
04688	3,5-Dimethylphenol	108-68-9	2,000		34	170		1
04688	Dimethylphthalate	131-11-3	1,600		17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	J	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	1,700		34	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,700		17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		17	340		1
04688	Fluoranthene	206-44-0	1,600		17	170		1
04688	Fluorene	86-73-7	1,700		17	170		1
04688	Hexachlorobenzene	118-74-1	1,800		17	170		1
04688	Hexachlorobutadiene	87-68-3	1,600		68	170		1

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Sample Description: SL-011-SA3-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435692
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6701 SDG#: DE267-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Hexachlorocyclopentadiene	77-47-4	1,600	170	510		1
04688	Hexachloroethane	67-72-1	1,400	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800	17	170		1
04688	Isophorone	78-59-1	1,800	17	170		1
04688	1-Methylnaphthalene	90-12-0	1,600	17	170		1
04688	2-Methylnaphthalene	91-57-6	1,700	17	170		1
04688	2-Methylphenol	95-48-7	1,800	34	170		1
04688	4-Methylphenol	106-44-5	1,800	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600	17	170		1
04688	2-Nitroaniline	88-74-4	1,800	17	170		1
04688	3-Nitroaniline	99-09-2	1,600	34	170		1
04688	4-Nitroaniline	100-01-6	1,300	68	170		1
04688	Nitrobenzene	98-95-3	1,800	17	170		1
04688	2-Nitrophenol	88-75-5	1,800	17	170		1
04688	4-Nitrophenol	100-02-7	1,300	170	510		1
04688	N-Nitrosodimethylamine	62-75-9	1,700	34	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,600	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,700	17	170		1
04688	Pentachlorophenol	87-86-5	690	170	510		1
04688	Phenanthrene	85-01-8	1,600	17	170		1
04688	Phenol	108-95-2	1,700	17	170		1
04688	Pyrene	129-00-0	1,600	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,700	34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	30	0.67	1.7		1
10138	Acenaphthylene	208-96-8	29	0.34	1.7		1
10138	Anthracene	120-12-7	32	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	32	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	31	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	37	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	18	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	32	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	26	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	30	6.0	18		1
10138	Chrysene	218-01-9	32	0.34	1.7		1

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Sample Description: SL-011-SA3-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435692
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6701 SDG#: DE267-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	21		0.67	1.7		1
10138	Diethylphthalate	84-66-2	29		6.0	18		1
10138	Dimethylphthalate	131-11-3	33		6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	28		6.0	18		1
10138	Fluoranthene	206-44-0	40		0.67	1.7		1
10138	Fluorene	86-73-7	30		0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	21		0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	28		0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	28		0.67	1.7		1
10138	Naphthalene	91-20-3	30		0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	31		0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	32		6.0	18		1
10138	Phenanthrene	85-01-8	31		0.67	1.7		1
10138	Pyrene	129-00-0	25		0.67	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	22		0.3	1.3		31.73
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,300		61	120		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,200		41	120		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250		1
10132	1,3-Dinitrobenzene	99-65-0	2,300		41	120		1
10132	2,4-Dinitrotoluene	121-14-2	2,100		41	120		1
10132	2,6-Dinitrotoluene	606-20-2	2,100		41	120		1
10132	HMX	2691-41-0	1,900		100	310		1
10132	Nitrobenzene	98-95-3	2,100		41	120		1
10132	Nitroglycerin	55-63-0	49,000		820	2,500		1
10132	2-Nitrotoluene	88-72-2	2,100		82	120		1
10132	3-Nitrotoluene	99-08-1	2,200		100	120		1
10132	4-Nitrotoluene	99-99-0	2,100		82	120		1
10132	PETN	78-11-5	53,000		820	2,500		1
10132	RDX	121-82-4	2,000		51	120		1
10132	Tetryl	479-45-8	1,900		63	120		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,100		41	120		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,200		41	120		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	5,100		610	1,500		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	13		0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1

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Sample Description: SL-011-SA3-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435692
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6701 SDG#: DE267-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	15		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,100		100	510		1
10501	Isopropanol	67-63-0	2,100		100	510		1
10501	Methanol	67-56-1	2,200		100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	17		5.1	10		1
08283	Ethylene glycol	107-21-1	87		5.1	10		1
08283	Propylene glycol	57-55-6	130		5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	7.9		1.5	3.6		1
10318	o-Terphenyl	84-15-1	9.2		1.5	3.6		1
10318	p-Terphenyl	92-94-4	7.8		1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	7.7		0.41	1.2		1
10199	EFH (C15-C20)	n.a.	18		0.41	1.2		1
10199	EFH (C21-C30)	n.a.	8.7		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	7.5		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	1.1	J	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,600		6.12	20.2		1
07914	Boron	7440-42-8	189		0.364	5.06		1
01650	Calcium	7440-70-2	5,390		2.53	20.2		1
01654	Iron	7439-89-6	18,300		2.64	20.2		1
01656	Lithium	7439-93-2	124		0.63	2.0		1
01657	Magnesium	7439-95-4	3,870		0.445	10.1		1
06958	Manganese	7439-96-5	286		0.0364	0.506		1
10145	Phosphorus	7723-14-0	550		0.354	10.1		1
01662	Potassium	7440-09-7	3,180		11.4	50.6		1
01667	Sodium	7440-23-5	1,040		6.02	101		1
07968	Strontium	7440-24-6	114		0.0253	0.506		1
06969	Tin	7440-31-5	371		0.324	10.1		1
06970	Titanium	7440-32-6	1,330		0.0698	0.983		1

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Sample Description: SL-011-SA3-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435692
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6701 SDG#: DE267-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	99.6	0.466	5.06		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.490	0.0721	0.195		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.17	0.0779	0.390		2
06126	Barium	7440-39-3	76.1	0.103	0.390		2
06127	Beryllium	7440-41-7	1.40	0.0156	0.0974		2
06128	Cadmium	7440-43-9	1.24	0.0428	0.0974		2
06131	Chromium	7440-47-3	24.7	0.117	0.390		2
06132	Cobalt	7440-48-4	62.5	0.0195	0.0974		2
06133	Copper	7440-50-8	18.8	0.0779	0.390		2
06135	Lead	7439-92-1	9.09	0.0099	0.195		2
06138	Molybdenum	7439-98-7	11.7	0.0487	0.0974		2
06139	Nickel	7440-02-0	20.1	0.0974	0.390		2
06141	Selenium	7782-49-2	2.16	0.0565	0.390		2
06142	Silver	7440-22-4	11.8	0.0138	0.0974		2
06145	Thallium	7440-28-0	0.707	0.0292	0.0974		2
06148	Vanadium	7440-62-2	38.5	0.0214	0.0974		2
06149	Zinc	7440-66-6	66.3	0.545	2.92		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.165	0.0070	0.0995		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	2.2	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-011-SA3-SB-4.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11290SLD026	11/01/2011 21:48	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11290SLE026	10/20/2011 14:50	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11287SLB026	10/17/2011 16:19	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11290SLD026	10/18/2011 06:55	Katheryne V Sponheimer	1

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Sample Description: SL-011-SA3-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435692
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6701 SDG#: DE267-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11287SLB026	10/14/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11290B16A	10/17/2011 22:00	Laura M Krieger	31.73
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128625838	10/13/2011 12:46	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128625838	10/13/2011 12:47	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 19:28	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910002A	10/19/2011 19:53	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112900017A	10/21/2011 05:15	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112900017A	10/18/2011 10:15	Denise L Trimby	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910002A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900025A	10/17/2011 20:39	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112930029A	10/20/2011 20:28	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/24/2011 19:07	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112910012A	10/20/2011 21:39	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112910012A	10/18/2011 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112900025A	10/17/2011 18:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112930029A	10/20/2011 16:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112875708002	10/24/2011 01:12	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112875708002	10/24/2011 01:12	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112875708002	10/24/2011 01:12	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112875708002	10/24/2011 01:12	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112875708002	10/24/2011 01:12	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112875708002	10/24/2011 01:12	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112875708002	10/24/2011 01:12	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112875708002	10/24/2011 01:12	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112875708002	10/24/2011 01:12	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112875708002	10/24/2011 01:12	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112875708002	10/24/2011 01:12	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112875708002	10/24/2011 01:12	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112975708004	10/25/2011 14:06	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112875708002	10/24/2011 01:12	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112871026001A	10/18/2011 05:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112871026001A	10/18/2011 05:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112871026001D	10/18/2011 05:08	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112871026001A	10/18/2011 05:08	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112871026001A	10/18/2011 05:08	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112871026001A	10/18/2011 05:08	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112871026001A	10/18/2011 05:08	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112871026001A	10/18/2011 05:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112871026001A	10/18/2011 05:08	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112871026001C	10/18/2011 05:08	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435692
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6701 SDG#: DE267-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06139	Nickel	SW-846 6020	1	112871026001A	10/18/2011 05:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112871026001B	10/18/2011 05:08	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112871026001A	10/18/2011 05:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112871026001A	10/18/2011 05:08	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112871026001A	10/18/2011 05:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112871026001A	10/18/2011 05:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112875711001	10/17/2011 19:01	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112875708002	10/17/2011 10:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112975708004	10/24/2011 21:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112871026001	10/17/2011 11:24	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112875711001	10/17/2011 13:00	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

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Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435693
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6701 SDG#: DE267-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,600		6.01	19.9		1
07914	Boron	7440-42-8	3.70	J	0.357	4.96		1
01650	Calcium	7440-70-2	4,910		2.48	19.9		1
01654	Iron	7439-89-6	19,000		2.59	19.9		1
01656	Lithium	7439-93-2	26.8		0.62	2.0		1
01657	Magnesium	7439-95-4	3,640		0.437	9.93		1
06958	Manganese	7439-96-5	260		0.0357	0.496		1
10145	Phosphorus	7723-14-0	286		0.347	9.93		1
01662	Potassium	7440-09-7	2,110		11.2	49.6		1
01667	Sodium	7440-23-5	91.7	J	5.91	99.3		1
07968	Strontium	7440-24-6	19.8		0.0248	0.496		1
06969	Tin	7440-31-5	2.77	J	0.318	9.93		1
06970	Titanium	7440-32-6	1,050		0.0705	0.993		1
10146	Zirconium	7440-67-7	4.08	J	0.457	4.96		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0735	U	0.0735	0.199		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.21		0.0794	0.397		2
06126	Barium	7440-39-3	68.2		0.105	0.397		2
06127	Beryllium	7440-41-7	0.580		0.0159	0.0993		2
06128	Cadmium	7440-43-9	0.132		0.0437	0.0993		2
06131	Chromium	7440-47-3	17.2		0.119	0.397		2
06132	Cobalt	7440-48-4	6.03		0.0199	0.0993		2
06133	Copper	7440-50-8	8.99		0.0794	0.397		2
06135	Lead	7439-92-1	6.50		0.0101	0.199		2
06138	Molybdenum	7439-98-7	0.311		0.0496	0.0993		2
06139	Nickel	7440-02-0	9.96		0.0993	0.397		2
06141	Selenium	7782-49-2	0.123	J	0.0576	0.397		2
06142	Silver	7440-22-4	0.0185	J	0.0141	0.0993		2
06145	Thallium	7440-28-0	0.238		0.0298	0.0993		2
06148	Vanadium	7440-62-2	28.3		0.0218	0.0993		2
06149	Zinc	7440-66-6	61.8		0.556	2.98		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069	U	0.0069	0.0978		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.81	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.91	J	0.81	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1

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Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435693
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6701 SDG#: DE267-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.53		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	2.3		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							
11625	Moisture Content by 160.3	n.a.	2.2		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112875708002	10/24/2011	01:05	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112875708002	10/24/2011	01:05	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112875708002	10/24/2011	01:05	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112875708002	10/24/2011	01:05	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112875708002	10/24/2011	01:05	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112875708002	10/24/2011	01:05	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112875708002	10/24/2011	01:05	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112875708002	10/24/2011	01:05	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112875708002	10/24/2011	01:05	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112875708002	10/24/2011	01:05	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112875708002	10/24/2011	01:05	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112875708002	10/24/2011	01:05	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112975708004	10/25/2011	13:58	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112875708002	10/24/2011	01:05	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112871026001A	10/18/2011	05:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112871026001A	10/18/2011	05:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112871026001D	10/18/2011	05:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112871026001A	10/18/2011	05:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112871026001A	10/18/2011	05:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112871026001A	10/18/2011	05:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112871026001A	10/18/2011	05:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112871026001A	10/18/2011	05:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112871026001A	10/18/2011	05:02	Choon Y Tian	2

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Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435693
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6701 SDG#: DE267-01DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	112871026001C	10/19/2011 18:31	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	112871026001A	10/18/2011 05:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112871026001B	10/18/2011 05:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112871026001A	10/18/2011 05:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112871026001A	10/18/2011 05:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112871026001A	10/18/2011 05:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112871026001A	10/18/2011 05:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112875711001	10/17/2011 18:59	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112875708002	10/17/2011 10:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112975708004	10/24/2011 21:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112871026001	10/17/2011 11:24	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112875711001	10/17/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201B	10/25/2011 23:35	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11297495201B	10/25/2011 23:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202B	10/20/2011 06:35	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11291243201A	10/20/2011 15:41	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201A	10/21/2011 08:03	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201B	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202B	10/19/2011 08:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201A	10/20/2011 15:35	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402A	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

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Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435694
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6701 SDG#: DE267-01RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	130		61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	120	J	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	120	J	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	120	J	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	120	J	41	120	10000000	1
10132	HMX	2691-41-0	120	J	100	310	10000000	1
10132	Nitrobenzene	98-95-3	110	J	41	120	10000000	1
10132	Nitroglycerin	55-63-0	2,600		820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	160		82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	150		100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	140		82	120	10000000	1
10132	PETN	78-11-5	2,700		820	2,500	10000000	1
10132	RDX	121-82-4	93	J	51	120	10000000	1
10132	Tetryl	479-45-8	87	J	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	110	J	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	110	J	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	1,800		610	1,500		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.5	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	1.9		0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1

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Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435694
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6701 SDG#: DE267-01RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	2.5		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	540		100	510		1
10501	Isopropanol	67-63-0	500	J	100	510		1
10501	Methanol	67-56-1	630		100	510		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	J	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.8	J	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.7	J	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.68	J	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	2.6		0.41	1.2		1
10199	EFH (C21-C30)	n.a.	15		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	38		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	2.2		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 20:11	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910002A	10/19/2011 20:02	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112900017A	10/21/2011 05:34	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112900017A	10/18/2011 10:15	Denise L Trimby	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910002A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435694
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6701 SDG#: DE267-01RLR

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900025A	10/17/2011 20:55	Elizabeth J Marin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/24/2011 19:29	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112910012A	10/20/2011 23:15	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112910012A	10/18/2011 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900025A	10/17/2011 18:30	Elizabeth J Marin	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435695
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6701 SDG#: DE267-01RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	120		60	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	110	J	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	80	U	80	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	80	U	80	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	110	J	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	110	J	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	110	J	40	120	10000000	1
10132	HMX	2691-41-0	110	J	100	300	10000000	1
10132	Nitrobenzene	98-95-3	100	J	40	120	10000000	1
10132	Nitroglycerin	55-63-0	2,100	J	800	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	150		80	120	10000000	1
10132	3-Nitrotoluene	99-08-1	130		100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	130		80	120	10000000	1
10132	PETN	78-11-5	2,500		800	2,400	10000000	1
10132	RDX	121-82-4	81	J	50	120	10000000	1
10132	Tetryl	479-45-8	75	J	61	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	110	J	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	100	J	40	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	1,800		600	1,500		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	1.7	J	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435695
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6701 SDG#: DE267-01RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	1.8		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	570		100	500		1
10501	Isopropanol	67-63-0	530		100	500		1
10501	Methanol	67-56-1	580		100	500		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	J	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.8	J	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.6	J	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	0.72	J	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	1.2	J	0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	1.7		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 20:53	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910002A	10/19/2011 20:12	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112900017A	10/21/2011 05:53	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112900017A	10/18/2011 10:15	Denise L Trimby	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910002A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900025A	10/17/2011 21:12	Elizabeth J Marin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/21/2011 23:27	Robert Brown	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435695
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6701 SDG#: DE267-01RLQ

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112910012A	10/20/2011 22:03	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112910012A	10/18/2011 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900025A	10/17/2011 18:30	Elizabeth J Marin	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-096-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SB-2.0-3.0

LLI Sample # SW 6435696
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 11:40

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6702 SDG#: DE267-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	17.4	U	17.4	34.8		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	35	J	17	350		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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

Sample Description: SL-096-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SB-2.0-3.0

LLI Sample # SW 6435696
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 11:40

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6702 SDG#: DE267-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	18	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.3	J	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	0.82	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Fluoranthene	206-44-0	1.6	J	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.70	J	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	0.77	J	0.69	1.7		1
10138	Pyrene	129-00-0	1.2	J	0.69	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		26.32
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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

Sample Description: SL-096-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SB-2.0-3.0

LLI Sample # SW 6435696
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 11:40

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6702 SDG#: DE267-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	60	U	60	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	80	U	80	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	80	U	80	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	800	U	800	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	80	U	80	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	80	U	80	120	10000000	1
10132	PETN	78-11-5	800	U	800	2,400	10000000	1
10132	RDX	121-82-4	50	U	50	120	10000000	1
10132	Tetryl	479-45-8	61	U	61	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1

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

Sample Description: SL-096-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SB-2.0-3.0

LLI Sample # SW 6435696
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 11:40

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6702 SDG#: DE267-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.67	J	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	1.0	J	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.70	J	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	5.4		0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	21		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,850		6.32	20.9		1
07914	Boron	7440-42-8	3.77	J	0.376	5.22		1
01650	Calcium	7440-70-2	6,910		2.61	20.9		1
01654	Iron	7439-89-6	18,400		2.73	20.9		1
01656	Lithium	7439-93-2	28.1		0.65	2.1		1
01657	Magnesium	7439-95-4	3,700		0.460	10.4		1
06958	Manganese	7439-96-5	250		0.0376	0.522		1
10145	Phosphorus	7723-14-0	276		0.366	10.4		1
01662	Potassium	7440-09-7	2,200		11.8	52.2		1
01667	Sodium	7440-23-5	122		6.22	104		1
07968	Strontium	7440-24-6	24.4		0.0261	0.522		1
06969	Tin	7440-31-5	2.77	J	0.334	10.4		1
06970	Titanium	7440-32-6	1,130		0.0727	1.02		1
10146	Zirconium	7440-67-7	3.08	J	0.481	5.22		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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

Sample Description: SL-096-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SB-2.0-3.0

LLI Sample # SW 6435696
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 11:40

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6702 SDG#: DE267-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0773 U	0.0773	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.62	0.0836	0.418		2
06126	Barium	7440-39-3	53.8	0.111	0.418		2
06127	Beryllium	7440-41-7	0.434	0.0167	0.104		2
06128	Cadmium	7440-43-9	0.0640 J	0.0460	0.104		2
06131	Chromium	7440-47-3	11.4	0.125	0.418		2
06132	Cobalt	7440-48-4	4.50	0.0209	0.104		2
06133	Copper	7440-50-8	6.05	0.0836	0.418		2
06135	Lead	7439-92-1	4.34	0.0107	0.209		2
06138	Molybdenum	7439-98-7	0.325	0.0522	0.104		2
06139	Nickel	7440-02-0	7.27	0.104	0.418		2
06141	Selenium	7782-49-2	0.0606 U	0.0606	0.418		2
06142	Silver	7440-22-4	0.0188 J	0.0148	0.104		2
06145	Thallium	7440-28-0	0.193	0.0313	0.104		2
06148	Vanadium	7440-62-2	24.5	0.0230	0.104		2
06149	Zinc	7440-66-6	46.8	0.585	3.13		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073 U	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5	0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9	0.85	1.6		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4 U	9.4	31.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26 J	0.21	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.51		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.22	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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

Sample Description: SL-096-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SB-2.0-3.0

LLI Sample # SW 6435696
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 11:40

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6702 SDG#: DE267-02

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-096-SA7-SB-2.5.
The encores for this sample were received on 10/14/11 at 9:15.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11290SLD026	11/01/2011 22:07	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11290SLE026	10/20/2011 15:15	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11287SLB026	10/18/2011 10:46	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11290SLD026	10/18/2011 06:55	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11287SLB026	10/14/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11290B16B	10/18/2011 20:44	Carrie E Miller	26.32
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128725848	10/14/2011 13:10	Stephanie A Sanchez	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128725848	10/14/2011 13:11	Stephanie A Sanchez	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 21:36	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910002A	10/19/2011 20:21	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112900017A	10/21/2011 06:11	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112900017A	10/18/2011 10:15	Denise L Trimby	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910002A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900025A	10/17/2011 19:49	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112930029A	10/20/2011 20:40	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/22/2011 01:18	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112910012A	10/20/2011 22:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112910012A	10/18/2011 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900025A	10/17/2011 18:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112930029A	10/20/2011 16:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112875708002	10/24/2011 01:20	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112875708002	10/24/2011 01:20	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112875708002	10/24/2011 01:20	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112875708002	10/24/2011 01:20	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112875708002	10/24/2011 01:20	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112875708002	10/24/2011 01:20	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112875708002	10/24/2011 01:20	Tara L Snyder	1

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Sample Description: SL-096-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SB-2.0-3.0

LLI Sample # SW 6435696
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 11:40

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6702 SDG#: DE267-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112875708002	10/24/2011 01:20	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112875708002	10/24/2011 01:20	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112875708002	10/24/2011 01:20	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112875708002	10/24/2011 01:20	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112875708002	10/24/2011 01:20	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112975708004	10/25/2011 14:14	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112875708002	10/24/2011 01:20	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112871026001A	10/18/2011 05:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112871026001A	10/18/2011 05:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112871026001D	10/18/2011 05:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112871026001A	10/18/2011 05:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112871026001A	10/18/2011 05:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112871026001A	10/18/2011 05:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112871026001A	10/18/2011 05:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112871026001A	10/18/2011 05:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112871026001A	10/18/2011 05:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112871026001C	10/19/2011 18:35	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	112871026001A	10/18/2011 05:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112871026001B	10/18/2011 05:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112871026001A	10/18/2011 05:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112871026001A	10/18/2011 05:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112871026001A	10/18/2011 05:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112871026001A	10/18/2011 05:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112875711001	10/17/2011 19:03	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112875708002	10/17/2011 10:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112975708004	10/24/2011 21:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112871026001	10/17/2011 11:24	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112875711001	10/17/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201A	10/27/2011 11:00	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11299621201A	10/27/2011 11:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202B	10/20/2011 07:44	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11291243201A	10/20/2011 15:48	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201A	10/21/2011 08:07	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201A	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202B	10/19/2011 08:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201A	10/20/2011 15:35	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402A	10/26/2011 15:00	Michele L Graham	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-096-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SB-2.0-3.0

LLI Sample # SW 6435696
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 11:40

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6702 SDG#: DE267-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: DUP01-SA3-QC-101211 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA3-QC-101211

LLI Sample # SW 6435697
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:35

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6703 SDG#: DE267-03FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	16.9	U	16.9	33.8		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Sample Description: DUP01-SA3-QC-101211 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA3-QC-101211

LLI Sample # SW 6435697
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:35

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6703 SDG#: DE267-03FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.67	U	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.88	J	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.0	U	6.0	18		1
10138	Fluoranthene	206-44-0	0.67	U	0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	0.67	U	0.67	1.7		1
10138	Pyrene	129-00-0	0.67	U	0.67	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		27.35
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	60	U	60	120	10000000	1

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Sample Description: DUP01-SA3-QC-101211 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA3-QC-101211

LLI Sample # SW 6435697
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:35

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6703 SDG#: DE267-03FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	80	U	80	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	80	U	80	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	800	U	800	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	80	U	80	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	80	U	80	120	10000000	1
10132	PETN	78-11-5	800	U	800	2,400	10000000	1
10132	RDX	121-82-4	50	U	50	120	10000000	1
10132	Tetryl	479-45-8	61	U	61	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	1.2	J	0.40	1.7		1

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Sample Description: DUP01-SA3-QC-101211 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA3-QC-101211

LLI Sample # SW 6435697
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:35

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

E6703 SDG#: DE267-03FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	0.48	J	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	2.4		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	6.5		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,500		6.02	19.9		1
07914	Boron	7440-42-8	3.21	J	0.358	4.97		1
01650	Calcium	7440-70-2	7,000		2.49	19.9		1
01654	Iron	7439-89-6	19,400		2.60	19.9		1
01656	Lithium	7439-93-2	28.7		0.62	2.0		1
01657	Magnesium	7439-95-4	3,920		0.438	9.95		1
06958	Manganese	7439-96-5	264		0.0358	0.497		1
10145	Phosphorus	7723-14-0	291		0.348	9.95		1
01662	Potassium	7440-09-7	2,320		11.2	49.7		1
01667	Sodium	7440-23-5	125		5.92	99.5		1
07968	Strontium	7440-24-6	26.1		0.0249	0.497		1
06969	Tin	7440-31-5	2.81	J	0.318	9.95		1
06970	Titanium	7440-32-6	1,030		0.0713	1.00		1
10146	Zirconium	7440-67-7	2.91	J	0.458	4.97		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0743	U	0.0743	0.201		2

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Sample Description: DUP01-SA3-QC-101211 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA3-QC-101211

LLI Sample # SW 6435697
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:35

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6703 SDG#: DE267-03FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.83		0.0804	0.402		2
06126	Barium	7440-39-3	63.0		0.106	0.402		2
06127	Beryllium	7440-41-7	0.471		0.0161	0.100		2
06128	Cadmium	7440-43-9	0.0958	J	0.0442	0.100		2
06131	Chromium	7440-47-3	12.6		0.121	0.402		2
06132	Cobalt	7440-48-4	4.87		0.0201	0.100		2
06133	Copper	7440-50-8	6.91		0.0804	0.402		2
06135	Lead	7439-92-1	5.20		0.0102	0.201		2
06138	Molybdenum	7439-98-7	0.363		0.0502	0.100		2
06139	Nickel	7440-02-0	8.45		0.100	0.402		2
06141	Selenium	7782-49-2	0.0591	J	0.0583	0.402		2
06142	Silver	7440-22-4	0.0334	J	0.0143	0.100		2
06145	Thallium	7440-28-0	0.215		0.0301	0.100		2
06148	Vanadium	7440-62-2	26.0		0.0221	0.100		2
06149	Zinc	7440-66-6	49.4		0.563	3.01		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0068	U	0.0068	0.0971		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.80	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.96	J	0.80	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.65		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: DUP01-SA3-QC-101211 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA3-QC-101211

LLI Sample # SW 6435697
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:35

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6703 SDG#: DE267-03FD

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11290SLD026	11/01/2011 22:26	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11290SLE026	10/20/2011 15:40	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11287SLB026	10/18/2011 11:19	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11290SLD026	10/18/2011 06:55	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11287SLB026	10/14/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11290B16B	10/18/2011 21:21	Carrie E Miller	27.35
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128625838	10/13/2011 12:41	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128625838	10/13/2011 12:41	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 23:43	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910002A	10/19/2011 20:31	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112900017A	10/21/2011 06:30	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112900017A	10/18/2011 10:15	Denise L Trimby	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910002A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900025A	10/17/2011 20:06	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112930029A	10/20/2011 20:53	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/22/2011 00:56	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112910012A	10/20/2011 22:51	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112910012A	10/18/2011 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900025A	10/17/2011 18:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112930029A	10/20/2011 16:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112875708002	10/24/2011 01:31	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112875708002	10/24/2011 01:31	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112875708002	10/24/2011 01:31	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112875708002	10/24/2011 01:31	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112875708002	10/24/2011 01:31	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112875708002	10/24/2011 01:31	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112875708002	10/24/2011 01:31	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112875708002	10/24/2011 01:31	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112875708002	10/24/2011 01:31	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112875708002	10/24/2011 01:31	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112875708002	10/24/2011 01:31	Tara L Snyder	1

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

Sample Description: DUP01-SA3-QC-101211 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA3-QC-101211

LLI Sample # SW 6435697
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:35

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6703 SDG#: DE267-03FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112875708002	10/24/2011 01:31	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112975708004	10/25/2011 14:26	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112875708002	10/24/2011 01:31	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112871026001A	10/18/2011 05:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112871026001A	10/18/2011 05:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112871026001D	10/18/2011 05:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112871026001A	10/18/2011 05:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112871026001A	10/18/2011 05:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112871026001A	10/18/2011 05:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112871026001A	10/18/2011 05:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112871026001A	10/18/2011 05:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112871026001A	10/18/2011 05:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112871026001C	10/19/2011 18:37	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	112871026001A	10/18/2011 05:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112871026001B	10/18/2011 05:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112871026001A	10/18/2011 05:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112871026001A	10/18/2011 05:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112871026001A	10/18/2011 05:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112871026001A	10/18/2011 05:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112875711001	10/17/2011 19:04	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112875708002	10/17/2011 10:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112975708004	10/24/2011 21:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112871026001	10/17/2011 11:24	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112875711001	10/17/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201A	10/27/2011 11:45	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11299621201A	10/27/2011 11:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202B	10/20/2011 08:07	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11291243201A	10/20/2011 16:02	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201A	10/21/2011 08:08	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201A	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202B	10/19/2011 08:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201A	10/20/2011 15:35	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402A	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA3-SB-101211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA3-SB-101211

LLI Sample # WW 6435698
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 14:23

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6704 SDG#: DE267-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l	ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	2.54	0.508	1.02		1

The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.

N-nitrosodimethylamine was detected in the method blank at a concentration of 1.14 ng/l. The blank value was not subtracted from the analytical result.

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11286WAH026	10/17/2011 18:53	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11286WAH026	10/14/2011 03:10	David V Hershey Jr	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: TB-101211 Water
SSFL Area IV Collocated Soil Sampling
TB-101211

LLI Sample # WW 6435699
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 08:00

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6705 SDG#: DE267-05TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l	ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	1.03	0.492	0.983		1

The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.

N-nitrosodimethylamine was detected in the method blank at a concentration of 1.14 ng/l. The blank value was not subtracted from the analytical result.

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11286WAH026	10/17/2011 19:12	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11286WAH026	10/14/2011 03:10	David V Hershey Jr	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: TB-101211 Sand
SSFL Area IV Collocated Soil Sampling
TB-101211

LLI Sample # SW 6435700
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 08:00

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6706 SDG#: DE267-06TB

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	16.7	U	16.7	33.3		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50		1

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11290SLD026	11/01/2011 22:45	Matthew S Woods	1
11630	NDMA Soil Microwave	SW-846 3546	1	11290SLD026	10/18/2011 06:55	Katheryne V Sponheimer	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11291162401B	10/18/2011 21:20	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: TB-101211 Water
SSFL Area IV Collocated Soil Sampling
TB-101211

LLI Sample # WW 6435701
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 08:00

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6707 SDG#: DE267-07TB

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11287A20A	10/14/2011 12:01	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11287A20A	10/14/2011 12:01	Marie D John	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: EB-SA3-SB-101211 Water
SSFL Area IV Collocated Soil Sampling
EB-SA3-SB-101211

LLI Sample # WW 6435702
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 14:00

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6708 SDG#: DE267-08EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l		ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	2.69		0.534	1.07		1
	The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.							
	N-nitrosodimethylamine was detected in the method blank at a concentration of 1.14 ng/l. The blank value was not subtracted from the analytical result. This sample was re-extracted, and n-nitrosodimethylamine was again detected in the method blank and sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	19	U	19	57		1
04678	Benzoic acid	65-85-0	6	U	6	14		1
04678	Benzyl alcohol	100-51-6	5	U	5	14		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	2-butoxy-Ethanol	111-76-2	48	U	48	48		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	14		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	29		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	14		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1

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

Sample Description: EB-SA3-SB-101211 Water
SSFL Area IV Collocated Soil Sampling
EB-SA3-SB-101211

LLI Sample # WW 6435702
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 14:00

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6708 SDG#: DE267-08EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	29		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	14		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	2-phenoxy-Ethanol	122-99-6	48	U	48	48		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.055		1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.055		1
10137	Anthracene	120-12-7	0.011	U	0.011	0.055		1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.055		1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.055		1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.055		1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.055		1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.055		1
10137	Butylbenzylphthalate	85-68-7	0.055	U	0.055	1.1		1
10137	Di-n-butylphthalate	84-74-2	0.28	J	0.055	1.1		1
10137	Chrysene	218-01-9	0.011	U	0.011	0.055		1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.055		1
10137	Diethylphthalate	84-66-2	0.14	J	0.055	1.1		1
10137	Dimethylphthalate	131-11-3	0.055	U	0.055	1.1		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.055	U	0.055	1.1		1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.055		1
10137	Fluorene	86-73-7	0.011	U	0.011	0.055		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.055		1
10137	1-Methylnaphthalene	90-12-0	0.011	U	0.011	0.055		1
10137	2-Methylnaphthalene	91-57-6	0.011	U	0.011	0.055		1
10137	Naphthalene	91-20-3	0.13		0.033	0.055		1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.055		1
10137	Di-n-octylphthalate	117-84-0	0.055	U	0.055	1.1		1
10137	Phenanthrene	85-01-8	0.033	U	0.033	0.055		1
10137	Pyrene	129-00-0	0.011	U	0.011	0.055		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		ug/l		ug/l	ug/l	ug/l	

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

Sample Description: EB-SA3-SB-101211 Water
SSFL Area IV Collocated Soil Sampling
EB-SA3-SB-101211

LLI Sample # WW 6435702
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 14:00

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6708 SDG#: DE267-08EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/l		ug/l	ug/l	ug/l	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	1.7		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
HPLC Organics	**SW-846 8315A**		ug/l		ug/l	ug/l	ug/l	
04144	20b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.51		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.51		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.51		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.51		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.51		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.51		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.51		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.51		1

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Sample Description: EB-SA3-SB-101211 Water
SSFL Area IV Collocated Soil Sampling
EB-SA3-SB-101211

LLI Sample # WW 6435702
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 14:00

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6708 SDG#: DE267-08EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.51		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.51		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.51		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.51		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	20	U	20	200		1
08278	Ethylene glycol	107-21-1	20	U	20	200		1
08278	Propylene glycol	57-55-6	20	U	20	200		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.084	U	0.084	0.26		1
10319	o-Terphenyl	84-15-1	0.084	U	0.084	0.26		1
10319	p-Terphenyl	92-94-4	0.084	U	0.084	0.26		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.63		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0801	U	0.0801	0.200		1
08014	Boron	7440-42-8	0.0047	J	0.0022	0.0500		1
01750	Calcium	7440-70-2	0.0705	U	0.0705	0.200		1
01754	Iron	7439-89-6	0.0141	U	0.0141	0.200		1
01756	Lithium	7439-93-2	0.0076	U	0.0076	0.0200		1
01757	Magnesium	7439-95-4	0.0067	U	0.0067	0.100		1
07058	Manganese	7439-96-5	0.00044	U	0.00044	0.0050		1
10143	Phosphorus	7723-14-0	0.0047	U	0.0047	0.100		1
01762	Potassium	7440-09-7	0.0874	U	0.0874	0.500		1
01767	Sodium	7440-23-5	0.0647	U	0.0647	1.00		1
08068	Strontium	7440-24-6	0.00022	U	0.00022	0.0050		1
07069	Tin	7440-31-5	0.0043	U	0.0043	0.0200		1
07070	Titanium	7440-32-6	0.00046	U	0.00046	0.0100		1
10144	Zirconium	7440-67-7	0.0042	U	0.0042	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	

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Sample Description: EB-SA3-SB-101211 Water
SSFL Area IV Collocated Soil Sampling
EB-SA3-SB-101211

LLI Sample # WW 6435702
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 14:00

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6708 SDG#: DE267-08EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/l		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.00042	U	0.00042	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00069	U	0.00069	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000080	U	0.000080	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00027	U	0.00027	0.0020		1
06042	Silver	7440-22-4	0.000098	U	0.000098	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00018	U	0.00018	0.00050		1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150		1
	SW-846 7470A		mg/l		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000026	U	0.000026	0.00020		1
Wet Chemistry	**EPA 300.0**		mg/l		mg/l	mg/l	mg/l	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080	U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050	U	0.050	0.10		1
	EPA 314.0		ug/l		ug/l	ug/l	ug/l	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70	U	0.70	2.0		1
	SW-846 7199		ug/l		ug/l	ug/l	ug/l	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0	U	5.0	10.0		1
	The correlation coefficient of the calibration curve is below the method requirement of 0.999 with a result of 0.995. The sample was rerun outside of the 24 hour holding time on 10/14/2011. The result of the second trial is also 5.0 U ug/l.							
	SW-846 9012B		mg/l		mg/l	mg/l	mg/l	
08255	16b Cyanide by 9012B	57-12-5	0.0050	U	0.0050	0.010		1
	SW-846 9040B		Std. Units		Std. Units	Std. Units	Std. Units	
00200	17b pH by 9040B	n.a.	5.5		0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

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

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Sample Description: **EB-SA3-SB-101211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA3-SB-101211

LLI Sample # WW 6435702
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 14:00

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6708 SDG#: DE267-08EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11286WAH026	10/17/2011 19:31	Matthew S Woods	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11290WAB026	10/18/2011 07:42	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11290WAJ026	10/21/2011 11:53	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	11290WAB026	10/17/2011 17:30	Nicholas W Shroyer	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11290WAJ026	10/18/2011 12:00	Olivia I Santiago	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11286WAH026	10/14/2011 03:10	David V Hershey Jr	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11287A20A	10/14/2011 12:23	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11287A20A	10/14/2011 12:23	Marie D John	1
10131	15b Energetics by 8330A	SW-846 8330A	1	112900016A	10/20/2011 07:27	James H Place	1
04144	20b Formaldehyde 8315A	SW-846 8315A	1	112860019A	10/14/2011 21:19	James H Place	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	112900011A	10/20/2011 14:51	Jessica L Miller	1
11117	PCB Waters Extraction	SW-846 3510C	1	112900011A	10/18/2011 02:30	Sherry L Morrow	1
01013	Formaldehyde Extraction	SW-846 8315A	1	112860019A	10/14/2011 08:35	Denise L Trimby	1
11122	Energetics Extraction	SW-846 8330	1	112900016A	10/18/2011 16:45	Kelli M Barto	1
06624	18b Alcohols by 8015B	SW-846 8015B	1	112870020A	10/14/2011 20:51	Elizabeth J Marin	1
08278	19b Glycols by 8015B	SW-846 8015B modified	1	112910030A	10/18/2011 21:07	Tyler O Griffin	1
10319	22b Terphenyls by 8015B	SW-846 8015B	1	112880013A	10/21/2011 13:08	Robert Brown	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112900022A	10/20/2011 18:51	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	112900022A	10/18/2011 08:45	Catherine R Wiker	1
10304	Terphenyls water prep	SW-846 3510C	1	112880013A	10/17/2011 10:00	Catherine R Wiker	1
01743	Aluminum	SW-846 6010B	1	112921848006	10/24/2011 02:09	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	112921848006	10/21/2011 19:57	John P Hook	1
01750	Calcium	SW-846 6010B	1	112921848006	10/24/2011 02:09	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	112921848006	10/24/2011 02:09	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	112921848006	10/21/2011 19:57	John P Hook	1
01757	Magnesium	SW-846 6010B	1	112921848006	10/24/2011 02:09	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	112921848006	10/21/2011 19:57	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	112921848006	10/21/2011 19:57	John P Hook	1
01762	Potassium	SW-846 6010B	1	112921848006	10/21/2011 19:57	John P Hook	1
01767	Sodium	SW-846 6010B	1	112921848006	10/21/2011 19:57	John P Hook	1
08068	Strontium	SW-846 6010B	1	112921848006	10/21/2011 19:57	John P Hook	1
07069	Tin	SW-846 6010B	1	112921848006	10/21/2011 19:57	John P Hook	1
07070	Titanium	SW-846 6010B	1	112921848006	10/21/2011 19:57	John P Hook	1
10144	Zirconium	SW-846 6010B	1	112921848006	10/21/2011 19:57	John P Hook	1
06024	Antimony	SW-846 6020	1	112926050003A	10/24/2011 09:45	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	112926050003A	10/24/2011 09:45	Choon Y Tian	1
06026	Barium	SW-846 6020	1	112926050003D	10/24/2011 09:45	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	112926050003A	10/24/2011 09:45	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	112926050003A	10/24/2011 09:45	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	112926050003A	10/24/2011 09:45	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	112926050003A	10/24/2011 09:45	Choon Y Tian	1
06033	Copper	SW-846 6020	1	112926050003A	10/24/2011 09:45	Choon Y Tian	1
06035	Lead	SW-846 6020	1	112926050003A	10/24/2011 09:45	Choon Y Tian	1

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Sample Description: **EB-SA3-SB-101211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA3-SB-101211

LLI Sample # WW 6435702
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 14:00

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

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

E6708 SDG#: DE267-08EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06038	Molybdenum	SW-846 6020	1	112926050003C	10/24/2011 09:45	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	112926050003A	10/24/2011 09:45	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	112926050003B	10/24/2011 09:45	Choon Y Tian	1
06042	Silver	SW-846 6020	1	112926050003A	10/24/2011 09:45	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	112926050003A	10/24/2011 09:45	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	112926050003A	10/24/2011 09:45	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	112926050003A	10/24/2011 09:45	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	112925713004	10/20/2011 19:29	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	112921848006	10/20/2011 09:39	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	112926050003	10/20/2011 09:36	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	112925713004	10/19/2011 14:43	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11286196901C	10/14/2011 00:08	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11286196901C	10/14/2011 00:08	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11286281101A	10/13/2011 21:47	Elyse P Brunstetter	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11286281401A	10/13/2011 11:23	Elyse P Brunstetter	1
08255	16b Cyanide by 9012B	SW-846 9012B	1	11290117101B	10/17/2011 20:58	Joseph E McKenzie	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11290117101B	10/17/2011 09:45	Nancy J Shoop	1
00200	17b pH by 9040B	SW-846 9040B	1	11286020001A	10/13/2011 21:35	Luz M Groff	1

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

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

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11286WAH026	Sample number(s): 6435698-6435699,6435702									
N-Nitrosodimethylamine	1.14		0.500	1.00	ng/l	98	103	70-130	5	30
Batch number: 11287SLB026	Sample number(s): 6435690-6435692,6435696-6435697									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	100		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	89		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	95		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	96		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	92		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	99		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	120		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	90		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	90		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	86		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	97		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	111		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	93		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	95		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	99		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	95		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	112		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	92		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	89		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	96		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	93		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	95		72-119		
Batch number: 11290SLD026	Sample number(s): 6435690-6435692,6435696-6435697,6435700									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	102		70-130		
Batch number: 11290SLE026	Sample number(s): 6435690-6435692,6435696-6435697									
Acenaphthene	17	U	17.	170	ug/kg	98		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	105		75-122		
Aniline	170 U		170.	500	ug/kg	74		20-115		
Anthracene	17	U	17.	170	ug/kg	98		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	43		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	98		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	100		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	101		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	94		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	100		67-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzoic acid	170 U		170.	500	ug/kg	63		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	113*		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	97		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	92		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	94		79-112		
Carbazole	17	U	17.	170	ug/kg	95		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	112		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	47		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	105		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	107*		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	107		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	71		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	109		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	104		74-115		
Chrysene	17	U	17.	170	ug/kg	96		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	100		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	98		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	91		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	90		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	91		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	42		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	107		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	99		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	109		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	118		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	100		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	41*		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	22		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	109		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	106		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	103		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	96		75-117		
Fluoranthene	17	U	17.	170	ug/kg	102		78-116		
Fluorene	17	U	17.	170	ug/kg	101		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	100		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	93		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	92		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	90		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	97		64-119		
Isophorone	17	U	17.	170	ug/kg	109		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	96		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	98		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	116*		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	113		66-117		
Naphthalene	17	U	17.	170	ug/kg	96		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	107		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	99		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	75		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	110		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	105		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	89		56-118		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	109*		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	106		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	96		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	101		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	86		51-117		
Phenanthrene	17	U	17.	170	ug/kg	93		77-113		
Phenol	17	U	17.	170	ug/kg	112		58-112		
Pyrene	17	U	17.	170	ug/kg	95		75-115		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	104		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	102		78-111		
Batch number: 11290WAB026	Sample number(s): 6435702									
Aniline	1	U	1.	5	ug/l	77	83	38-116	8	30
Benzidine	20	U	20.	60	ug/l	62	62	34-117	0	30
Benzoic acid	6	U	6.	15	ug/l	24	21	10-69	11	30
Benzyl alcohol	5	U	5.	15	ug/l	79	91	66-97	14	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	101	103	75-115	2	30
2-butoxy-Ethanol	50	U	50.	50	ug/l					
Carbazole	1	U	1.	5	ug/l	99	103	75-120	4	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	103	109	70-123	6	30
4-Chloroaniline	1	U	1.	5	ug/l	67	70	24-128	5	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	104	109	74-124	5	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	101	108	77-108	7	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	98	106	62-127	8	30
2-Chloronaphthalene	2	U	2.	5	ug/l	73	81	54-132	11	30
2-Chlorophenol	1	U	1.	5	ug/l	94	100	71-114	7	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	101	106	77-114	5	30
Dibenzofuran	1	U	1.	5	ug/l	96	101	75-117	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	87	97	55-118	10	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	88	97	61-111	9	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	88	96	53-119	9	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	70	72	37-117	2	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	102	109	77-117	7	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	102	107	72-110	4	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	108	113	70-130	5	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	98	102	65-126	4	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	93	99	52-131	6	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	108	113	76-119	5	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	104	111	76-118	6	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	100	103	68-127	4	30
Hexachlorobenzene	1	U	1.	5	ug/l	105	107	75-119	2	30
Hexachlorobutadiene	1	U	1.	5	ug/l	96	104	57-124	8	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	84	90	36-118	6	30
Hexachloroethane	1	U	1.	5	ug/l	86	95	52-113	10	30
Isophorone	1	U	1.	5	ug/l	107	113	74-117	6	30
2-Methylphenol	1	U	1.	5	ug/l	86	94	58-110	9	30
4-Methylphenol	2	U	2.	5	ug/l	77	85	49-108	10	30
2-Nitroaniline	1	U	1.	5	ug/l	104	111	75-120	7	30
3-Nitroaniline	1	U	1.	5	ug/l	99	104	74-113	5	30
4-Nitroaniline	1	U	1.	5	ug/l	84	89	59-100	5	30
Nitrobenzene	1	U	1.	5	ug/l	108	114*	75-109	5	30
2-Nitrophenol	1	U	1.	5	ug/l	106	111	76-118	4	30
4-Nitrophenol	10	U	10.	30	ug/l	40	46	16-78	14	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	100	108	69-110	8	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	94	97	67-136	3	30
Pentachlorophenol	3	U	3.	15	ug/l	107	112*	53-110	5	30
Phenol	1	U	1.	5	ug/l	38	49	21-67	25	30
2-phenoxy-Ethanol	50	U	50.	50	ug/l					
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	96	103	71-112	7	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	103	109*	79-107	6	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	103	110	76-120	7	30
Batch number: 11290WAJ026	Sample number(s): 6435702									
Acenaphthene	0.010	U	0.010	0.050	ug/l	98	97	74-109	2	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	97	95	70-110	2	30
Anthracene	0.010	U	0.010	0.050	ug/l	99	100	66-111	1	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	101	102	72-114	0	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	95	95	60-127	0	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	98	99	58-151	1	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	108	108	57-131	0	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	99	99	59-130	0	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	77	78	40-138	1	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	84	85	56-148	1	30
Chrysene	0.010	U	0.010	0.050	ug/l	105	105	76-116	0	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	109	110	55-134	0	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	91	92	37-148	1	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	86	86	40-119	0	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	102	102	57-154	0	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	104	106	75-116	2	30
Fluorene	0.010	U	0.010	0.050	ug/l	105	103	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	108	108	53-158	0	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	93	94	71-117	0	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	92	92	75-115	0	30
Naphthalene	0.030	U	0.030	0.050	ug/l	95	95	72-109	0	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	70	65	36-89	8	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	87	87	57-145	1	30
Phenanthrene	0.030	U	0.030	0.050	ug/l	98	99	76-111	1	30
Pyrene	0.010	U	0.010	0.050	ug/l	92	91	69-118	0	30
Batch number: 11287A20A	Sample number(s): 6435701-6435702									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	91	100	75-135	10	30
Batch number: 11290B16A	Sample number(s): 6435690-6435692									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	80		67-119		
Batch number: 11290B16B	Sample number(s): 6435696-6435697									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	80		67-119		
Batch number: 112880014A	Sample number(s): 6435690-6435692,6435694-6435697									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	108		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	106		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	85	85	54-134	0	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	84	85	54-134	0	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	109		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	100		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	106		80-120		
HMX	100 U		100.	300	ug/kg	91		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	103		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	86		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	101		78-128		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
3-Nitrotoluene	100 U		100.	120	ug/kg	107		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	100		80-120		
PETN	800 U		800.	2,400	ug/kg	101		80-120		
RDX	50	U	50.	120	ug/kg	101		75-131		
Tetryl	61	U	61.	120	ug/kg	97		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	103		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
Batch number: 112900016A	Sample number(s): 6435702									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	99	93	80-120	6	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	94	88	80-120	7	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	80	83	50-122	4	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	80	83	50-122	4	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	100	96	72-117	4	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	93	89	80-120	4	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	97	80-120	3	30
HMX	0.65	U	0.65	2.0	ug/l	87	82	65-125	6	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	92	88	75-121	4	30
Nitroglycerin	5.2	U	5.2	15	ug/l	92	88	80-120	5	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	93	88	74-120	6	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	98	94	69-107	4	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	93	88	80-120	6	30
PETN	6.0	U	6.0	18	ug/l	96	96	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	88	82	70-125	7	30
Tetryl	0.40	U	0.40	0.60	ug/l	92	86	31-148	7	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	88	82	53-129	7	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	98	93	76-109	5	30
Batch number: 112860019A	Sample number(s): 6435702									
20b Formaldehyde 8315A	10	U	10.	50	ug/l	106	108	69-130	2	30
Batch number: 112910002A	Sample number(s): 6435690-6435692,6435694-6435697									
20a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	103		80-126		
Batch number: 112900011A	Sample number(s): 6435702									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	76	74	35-84	3	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	84	90	51-128	7	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	94	102	56-135	8	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 112900017A	Sample number(s): 6435690-6435692,6435694-6435697									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	72	72	36-106	0	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	88		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	106		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112870020A	Sample number(s): 6435702									
Ethanol	200 U		200.	1,000	ug/l	96		78-116		
Isopropanol	200 U		200.	1,000	ug/l	96		75-125		
Methanol	200 U		200.	1,000	ug/l	96		76-122		
Batch number: 112900025A	Sample number(s): 6435690-6435692,6435694-6435697									
Ethanol	100 U		100.	500	ug/kg	89		71-129		
Isopropanol	100 U		100.	500	ug/kg	87		75-125		
Methanol	100 U		100.	500	ug/kg	88		68-129		
Batch number: 112910030A	Sample number(s): 6435702									
Diethylene glycol	20	U	20.	200	mg/l	120		67-126		
Ethylene glycol	20	U	20.	200	mg/l	137*		78-136		
Propylene glycol	20	U	20.	200	mg/l	140*		65-132		
Batch number: 112930029A	Sample number(s): 6435690-6435692,6435696-6435697									
Diethylene glycol	5.0	U	5.0	10	mg/kg	100		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	102		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	98		67-131		
Batch number: 112870007A	Sample number(s): 6435690-6435692,6435694-6435697									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	102		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	107		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	100		69-109		
Batch number: 112880013A	Sample number(s): 6435702									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	98	102	61-108	4	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	102	104	75-125	2	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	98	102	63-110	4	20
Batch number: 112900022A	Sample number(s): 6435702									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	88	86	63-121	2	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	93	95	72-124	1	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	92	73	64-123	23	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	73	80	73-124	9	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	76	74	43-107	3	30
Batch number: 112910012A	Sample number(s): 6435690-6435692,6435694-6435697									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	90		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	93		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	76		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	85		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	82		49-107		
Batch number: 112871026001A	Sample number(s): 6435690-6435693,6435696-6435697									

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Antimony	0.0740 U	0.0740	0.200	mg/kg	77		40-227		
Arsenic	0.0815 J	0.0800	0.400	mg/kg	103		83-111		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	102		84-112		
Cadmium	0.0440 U	0.0440	0.100	mg/kg	103		83-111		
Chromium	0.120 U	0.120	0.400	mg/kg	110		77-123		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	103		85-114		
Copper	0.0800 U	0.0800	0.400	mg/kg	102		81-110		
Lead	0.0143 J	0.0102	0.200	mg/kg	101		84-112		
Nickel	0.100 U	0.100	0.400	mg/kg	101		81-110		
Silver	0.0142 U	0.0142	0.100	mg/kg	103		83-112		
Thallium	0.0300 U	0.0300	0.100	mg/kg	103		82-112		
Vanadium	0.0333 J	0.0220	0.100	mg/kg	101		76-110		
Zinc	0.560 U	0.560	3.00	mg/kg	106		82-110		
Batch number: 112871026001B	Sample number(s): 6435690-6435693,6435696-6435697								
Selenium	0.0580 U	0.0580	0.400	mg/kg	96		79-110		
Batch number: 112871026001C	Sample number(s): 6435690-6435693,6435696-6435697								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	100		80-110		
Batch number: 112871026001D	Sample number(s): 6435690-6435693,6435696-6435697								
Barium	0.106 U	0.106	0.400	mg/kg	101		83-110		
Batch number: 112875708002	Sample number(s): 6435690-6435693,6435696-6435697								
Aluminum	6.05 U	6.05	20.0	mg/kg	84		40-127		
Boron	0.360 U	0.360	5.00	mg/kg	99		83-110		
Calcium	7.22 J	2.50	20.0	mg/kg	93		81-110		
Iron	4.39 J	2.61	20.0	mg/kg	90		47-129		
Lithium	0.62 U	0.62	2.0	mg/kg	97		80-120		
Magnesium	0.877 J	0.440	10.0	mg/kg	88		63-116		
Manganese	0.0440 J	0.0360	0.500	mg/kg	97		85-116		
Phosphorus	1.13 J	0.350	10.0	mg/kg	103		80-120		
Potassium	11.3 U	11.3	50.0	mg/kg	96		71-110		
Sodium	5.95 U	5.95	100	mg/kg	97		76-110		
Strontium	0.0380 J	0.0250	0.500	mg/kg	99		84-110		
Tin	1.43 J	0.320	10.0	mg/kg	101		86-120		
Zirconium	0.460 U	0.460	5.00	mg/kg	100		80-120		
Batch number: 112875711001	Sample number(s): 6435690-6435693,6435696-6435697								
Mercury	0.0069 U	0.0069	0.0978	mg/kg	97		83-119		
Batch number: 112921848006	Sample number(s): 6435702								
Aluminum	0.0801 U	0.0801	0.200	mg/l	100	99	90-112	0	20
Boron	0.0022 U	0.0022	0.0500	mg/l	93	89	89-110	5	20
Calcium	0.0705 U	0.0705	0.200	mg/l	97	97	90-110	0	20
Iron	0.0141 U	0.0141	0.200	mg/l	101	101	90-112	0	20
Lithium	0.0076 U	0.0076	0.0200	mg/l	98	97	90-110	1	20
Magnesium	0.0067 U	0.0067	0.100	mg/l	99	100	90-110	1	20
Manganese	0.00046 J	0.00044	0.0050	mg/l	99	95	90-110	4	20
Phosphorus	0.0047 U	0.0047	0.100	mg/l	99	98	90-110	1	20
Potassium	0.0874 U	0.0874	0.500	mg/l	101	97	85-115	3	20
Sodium	0.0647 U	0.0647	1.00	mg/l	100	97	87-114	3	20
Strontium	0.00022 U	0.00022	0.0050	mg/l	99	94	90-110	5	20
Tin	0.0043 U	0.0043	0.0200	mg/l	95	94	90-110	1	20
Titanium	0.00046 U	0.00046	0.0100	mg/l	101	95	90-113	6	20
Zirconium	0.0042 U	0.0042	0.0500	mg/l	102	99	90-110	3	20
Batch number: 112925713004	Sample number(s): 6435702								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Mercury	0.000026 U	0.00002 6	0.00020	mg/l	97	101	80-120	4	20
Batch number: 112926050003A	Sample number(s): 6435702								
Antimony	0.00042 U	0.00042	0.0010	mg/l	106	97	87-110	10	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	98	101	86-111	2	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	106	106	90-113	0	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	95	104	90-114	8	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	102	107	90-118	5	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	102	101	87-113	1	20
Copper	0.00038 U	0.00038	0.0020	mg/l	105	103	90-113	1	20
Lead	0.000080 U	0.00008 0	0.0010	mg/l	105	104	90-115	0	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	103	103	90-113	0	20
Silver	0.000098 U	0.00009 8	0.00050	mg/l	103	101	90-115	3	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	106	97	89-116	9	20
Vanadium	0.00018 U	0.00018	0.00050	mg/l	104	106	89-116	2	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	100	109	90-116	8	20
Batch number: 112926050003B	Sample number(s): 6435702								
Selenium	0.00027 U	0.00027	0.0020	mg/l	108	106	85-114	2	20
Batch number: 112926050003C	Sample number(s): 6435702								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	104	98	89-115	6	20
Batch number: 112926050003D	Sample number(s): 6435702								
Barium	0.00069 U	0.00069	0.0020	mg/l	99	98	88-113	1	20
Batch number: 112975708004	Sample number(s): 6435690-6435693,6435696-6435697								
Titanium	0.0710 U	0.0710	1.00	mg/kg	88		80-120		
Batch number: 11286196901C	Sample number(s): 6435702								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	96	94	90-110	2	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	97	97	90-110	0	20
Batch number: 11286281101A	Sample number(s): 6435702								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	91	92	85-115	1	20
Batch number: 11286281401A	Sample number(s): 6435702								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	99	101	90-110	2	20
Batch number: 11290117101B	Sample number(s): 6435702								
16b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	103	102	90-110	1	20
Batch number: 11291243201A	Sample number(s): 6435690-6435691,6435693,6435696-6435697								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	81		80-120		
Batch number: 11292621202B	Sample number(s): 6435690-6435691,6435693,6435696-6435697								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	111		85-115		
Batch number: 11293102201A	Sample number(s): 6435690-6435691,6435693,6435696-6435697								
16a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	85		80-120		
Batch number: 11297495201B	Sample number(s): 6435690-6435691,6435693								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	102		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	103		90-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11299621201A	Sample number(s): 6435696-6435697									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	104		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	106		90-110		
Batch number: 11286020001A	Sample number(s): 6435702									
17b pH by 9040B						100	100	90-110	0	3
Batch number: 11299039402A	Sample number(s): 6435690,6435693,6435696-6435697									
17a pH by 9045C						100		95-105		
Batch number: 11291162401B	Sample number(s): 6435700									
Moisture Content by 160.3						100		80-120		
Batch number: 11298162401A	Sample number(s): 6435690-6435694,6435696-6435697									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11287SLB026	Sample number(s): 6435690-6435692,6435696-6435697 UNSPK: 6435690								
Acenaphthene	82	90	63-105	10	30				
Acenaphthylene	79	86	67-114	8	30				
Anthracene	89	94	73-115	6	30				
Benzo(a)anthracene	86	94	59-128	8	30				
Benzo(a)pyrene	87	92	58-142	6	30				
Benzo(b)fluoranthene	100	109	54-163	9	30				
Benzo(g,h,i)perylene	46	52	33-141	11	30				
Benzo(k)fluoranthene	90	96	57-153	6	30				
Butylbenzylphthalate	71	79	57-173	10	30				
Di-n-butylphthalate	84	90	65-148	7	30				
Chrysene	87	95	67-123	9	30				
Dibenz(a,h)anthracene	58	63	22-133	9	30				
Diethylphthalate	81	86	70-136	6	30				
Dimethylphthalate	88	100	74-118	13	30				
Bis(2-Ethylhexyl)phthalate	76	83	39-167	9	30				
Fluoranthene	116	121	51-149	4	30				
Fluorene	82	90	66-122	9	30				
Indeno(1,2,3-cd)pyrene	57	63	21-143	10	30				
1-Methylnaphthalene	72	83	72-123	13	30				
2-Methylnaphthalene	72	83	64-103	14	30				
Naphthalene	80	89	61-102	11	30				
N-Nitrosodimethylamine	81	91	48-113	11	30				
Di-n-octylphthalate	93	96	40-192	4	30				
Phenanthrene	84	91	62-122	8	30				
Pyrene	67	75	51-131	11	30				
Batch number: 11290SLD026	Sample number(s): 6435690-6435692,6435696-6435697,6435700 UNSPK: 6435690								
N-Nitrosodimethylamine	104	104	70-130	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11290SLE026	Sample number(s): 6435690-6435692,6435696-6435697 UNSPK: 6435690								
Acenaphthene	98	97	75-115	1	30				
Acenaphthylene	106	104	81-110	1	30				
Aniline	72	71	18-116	2	30				
Anthracene	101	97	75-115	4	30				
Benzidine	38	37	35-141	4	30				
Benzo(a)anthracene	100	97	65-122	3	30				
Benzo(a)pyrene	103	99	57-126	4	30				
Benzo(b)fluoranthene	108	100	59-125	8	30				
Benzo(g,h,i)perylene	110	104	59-127	5	30				
Benzo(k)fluoranthene	94	93	56-132	2	30				
Benzoic acid	0*	0*	10-173	0	30				
Benzyl alcohol	106	103	67-115	2	30				
4-Bromophenyl-phenylether	106	102	67-129	4	30				
Butylbenzylphthalate	99	95	73-134	4	30				
Di-n-butylphthalate	97	93	67-123	4	30				
Carbazole	96	93	64-120	3	30				
4-Chloro-3-methylphenol	110	109	62-122	1	30				
4-Chloroaniline	62	68	13-107	9	30				
bis(2-Chloroethoxy)methane	103	102	75-104	1	30				
bis(2-Chloroethyl)ether	100	96	60-116	4	30				
bis(2-Chloroisopropyl)ether	101	97	55-142	4	30				
2-Chloronaphthalene	81	79	50-141	3	30				
2-Chlorophenol	101	101	73-121	1	30				
4-Chlorophenyl-phenylether	103	102	80-109	2	30				
Chrysene	95	92	62-128	4	30				
Dibenz(a,h)anthracene	114	108	65-125	5	30				
Dibenzofuran	98	97	71-112	2	30				
1,2-Dichlorobenzene	86	85	66-108	1	30				
1,3-Dichlorobenzene	84	82	63-109	3	30				
1,4-Dichlorobenzene	85	83	58-108	3	30				
3,3'-Dichlorobenzidine	55	59	28-109	7	30				
2,4-Dichlorophenol	101	104	66-123	3	30				
Diethylphthalate	96	94	66-118	2	30				
2,4-Dimethylphenol	106	105	68-118	2	30				
3,5-Dimethylphenol	118	118	71-127	0	30				
Dimethylphthalate	98	95	64-118	2	30				
4,6-Dinitro-2-methylphenol	10*	12	11-126	14	30				
2,4-Dinitrophenol	0*	0*	20-143	0	30				
2,4-Dinitrotoluene	103	101	56-129	2	30				
2,6-Dinitrotoluene	103	102	69-123	1	30				
1,2-Diphenylhydrazine	109	105	71-129	3	30				
bis(2-Ethylhexyl)phthalate	102	100	63-122	2	30				
Fluoranthene	99	97	73-112	2	30				
Fluorene	102	100	63-121	1	30				
Hexachlorobenzene	108	104	77-114	4	30				
Hexachlorobutadiene	96	95	62-120	1	30				
Hexachlorocyclopentadiene	47	48	10-153	3	30				
Hexachloroethane	84	81	57-109	3	30				
Indeno(1,2,3-cd)pyrene	112	107	61-126	4	30				
Isophorone	108*	107*	73-102	1	30				
1-Methylnaphthalene	96	94	64-122	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Methylnaphthalene	98	97	76-114	1	30				
2-Methylphenol	108	106	75-111	2	30				
4-Methylphenol	107	104	59-123	2	30				
Naphthalene	96	96	72-116	0	30				
2-Nitroaniline	106	108	67-125	2	30				
3-Nitroaniline	97	96	59-122	1	30				
4-Nitroaniline	79	76	41-109	4	30				
Nitrobenzene	109	108	57-125	1	30				
2-Nitrophenol	89	104	56-127	16	30				
4-Nitrophenol	66	78	37-129	17	30				
N-Nitroso-di-n-propylamine	102	100	60-116	3	30				
N-Nitrosodimethylamine	101	101	47-116	0	30				
N-Nitrosodiphenylamine	101	96	71-122	5	30				
Di-n-octylphthalate	105	100	56-126	4	30				
Pentachlorophenol	24*	41	28-127	52*	30				
Phenanthrene	97	93	65-125	4	30				
Phenol	105	102	58-126	3	30				
Pyrene	99	95	74-126	3	30				
1,2,4-Trichlorobenzene	96	97	72-115	0	30				
2,4,5-Trichlorophenol	92	102	58-129	9	30				
2,4,6-Trichlorophenol	85	100	56-134	16	30				
Batch number: 11290B16A	Sample number(s): 6435690-6435692 UNSPK: 6435690								
9a TPH by EPA 8015B Gas C5-C12	73	65	39-118	7	30				
Batch number: 11290B16B	Sample number(s): 6435696-6435697 UNSPK: 6435690								
9a TPH by EPA 8015B Gas C5-C12	73	65	39-118	7	30				
Batch number: 112880014A	Sample number(s): 6435690-6435692,6435694-6435697 UNSPK: 6435690								
4-Amino-2,6-Dinitrotoluene	109	110	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	109	107	80-137	1	50				
1,3-Dinitrobenzene	112	111	38-166	1	50				
2,4-Dinitrotoluene	102	102	80-131	0	50				
2,6-Dinitrotoluene	107	105	80-127	1	50				
HMX	94	94	63-128	0	50				
Nitrobenzene	107	105	80-125	2	50				
Nitroglycerin	100	99	80-120	1	50				
2-Nitrotoluene	104	102	80-122	2	50				
3-Nitrotoluene	110	109	72-119	2	50				
4-Nitrotoluene	103	102	80-125	1	50				
PETN	109	108	80-121	1	50				
RDX	100	99	75-129	1	50				
Tetryl	93	92	55-174	1	50				
1,3,5-Trinitrobenzene	105	103	82-126	2	50				
2,4,6-Trinitrotoluene	109	108	82-130	1	50				
Batch number: 112910002A	Sample number(s): 6435690-6435692,6435694-6435697 UNSPK: 6435690								
20a Formaldehyde 8315A	96	99	80-120	3	50				
Batch number: 112900017A	Sample number(s): 6435690-6435692,6435694-6435697 UNSPK: 6435690								
PCB-1016	94	79	29-146	17	50				
PCB-1260	112	83	39-149	28	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112870020A	Sample number(s): 6435702 UNSPK: P434238								
Ethanol	94	98	62-145	4	20				
Isopropanol	100	100	73-131	0	20				
Methanol	80	96	52-159	16	20				
Batch number: 112900025A	Sample number(s): 6435690-6435692,6435694-6435697 UNSPK: 6435690								
Ethanol	78	84	48-130	7	20				
Isopropanol	76	82	12-149	7	20				
Methanol	80	85	43-138	6	20				
Batch number: 112910030A	Sample number(s): 6435702 UNSPK: 6435702								
Diethylene glycol	120	125	83-130	4	20				
Ethylene glycol	137*	137*	89-125	0	20				
Propylene glycol	135*	135*	91-128	0	20				
Batch number: 112930029A	Sample number(s): 6435690-6435692,6435696-6435697 UNSPK: 6435690								
Diethylene glycol	5*	8*	59-109	42*	20				
Ethylene glycol	47*	45*	63-107	6	20				
Propylene glycol	65	62*	63-107	5	20				
Batch number: 112870007A	Sample number(s): 6435690-6435692,6435694-6435697 UNSPK: 6435690								
m-Terphenyl	93	95	75-125	1	20				
o-Terphenyl	107	107	75-125	0	20				
p-Terphenyl	85	90	75-125	6	20				
Batch number: 112910012A	Sample number(s): 6435690-6435692,6435694-6435697 UNSPK: 6435690								
EFH (C12-C14)	76	894*	49-123	169*	20				
EFH (C15-C20)	69	1343*	49-123	172*	20				
EFH (C21-C30)	132*	329*	49-123	63*	20				
EFH (C30 - C40)	165*	92	49-123	22*	20				
EFH (C8-C11)	60	129*	49-123	73*	20				
Batch number: 112871026001A	Sample number(s): 6435690-6435693,6435696-6435697 UNSPK: 6435690 BKG: 6435690								
Antimony	58*	42*	75-125	32*	20	0.0733 U	0.0718 U	0 (1)	20
Arsenic	64*	39*	75-125	7	20	6.27	5.09	21*	20
Beryllium	108	91	75-125	9	20	0.674	0.567	17	20
Cadmium	128*	114	75-125	11	20	0.124	0.129	4 (1)	20
Chromium	108	71*	75-125	13	20	17.4	16.8	3	20
Cobalt	128*	114	75-125	10	20	6.79	5.90	14	20
Copper	121	98	75-125	11	20	9.00	8.80	2	20
Lead	134*	29*	75-125	29*	20	8.07	6.36	24*	20
Nickel	118	80	75-125	17	20	12.0	9.74	21*	20
Silver	131*	121	75-125	8	20	0.0386 J	0.0181 J	73* (1)	20
Thallium	120	101	75-125	10	20	0.305	0.233	27* (1)	20
Vanadium	85	34*	75-125	12	20	34.5	27.6	22*	20
Zinc	5 (2)	-20 (2)	75-125	4	20	66.7	60.4	10	20
Batch number: 112871026001B	Sample number(s): 6435690-6435693,6435696-6435697 UNSPK: 6435690 BKG: 6435690								
Selenium	120	103	75-125	15	20	0.163 J	0.120 J	30* (1)	20
Batch number: 112871026001C	Sample number(s): 6435690-6435693,6435696-6435697 UNSPK: 6435690 BKG: 6435690								
Molybdenum	133*	117	75-125	13	20	0.284	0.304	7 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112871026001D	Sample number(s): 6435690-6435693,6435696-6435697 UNSPK: 6435690 BKG: 6435690								
Barium	48 (2)	-93 (2)	75-125	16	20	83.3	66.7	22*	20
Batch number: 112875708002	Sample number(s): 6435690-6435693,6435696-6435697 UNSPK: 6435690 BKG: 6435690								
Aluminum	1904 (2)	866 (2)	75-125	16	20	9,610	10,400	8	20
Boron	93	92	84-115	0	20	3.43 J	3.61 J	5 (1)	20
Calcium	-110 (2)	57 (2)	75-125	13	20	5,040	4,800	5	20
Iron	2018 (2)	859 (2)	75-125	6	20	17,000	18,600	9	20
Lithium	101	98	82-114	1	20	24.1	26.2	8	20
Magnesium	259 (2)	223 (2)	75-125	2	20	3,340	3,560	6	20
Manganese	129 (2)	95 (2)	75-125	5	20	233	254	9	20
Phosphorus	84	258*	75-125	39*	20	283	280	1	20
Potassium	125	120	75-125	1	20	1,930	2,060	7	20
Sodium	98	94	75-125	2	20	87.3 J	89.7 J	3 (1)	20
Strontium	95	94	75-115	0	20	19.1	19.4	2	20
Tin	91	91	80-110	2	20	2.66 J	2.71 J	2 (1)	20
Zirconium	96	96	81-110	1	20	2.80 J	3.99 J	35* (1)	20
Batch number: 112875711001	Sample number(s): 6435690-6435693,6435696-6435697 UNSPK: 6435690 BKG: 6435690								
Mercury	102	100	65-135	2	20	0.0069 U	0.0067 U	0 (1)	20
Batch number: 112975708004	Sample number(s): 6435690-6435693,6435696-6435697 UNSPK: 6435690 BKG: 6435690								
Titanium	258 (2)	255 (2)	75-125	0	20	1,060	1,030	3	20
Batch number: 11286281401A	Sample number(s): 6435702 UNSPK: P435633 BKG: P435633								
3b Cr VI by EPA 7199	91		59-135			5.0 U	5.0 U	0 (1)	20
Batch number: 11291243201A	Sample number(s): 6435690-6435691,6435693,6435696-6435697 UNSPK: 6435690 BKG: 6435690								
3a Cr VI by EPA 7199	91		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11292621202B	Sample number(s): 6435690-6435691,6435693,6435696-6435697 UNSPK: 6435690 BKG: 6435690								
7a Perchlorate EPA 314.0	112		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11293102201A	Sample number(s): 6435690-6435691,6435693,6435696-6435697 UNSPK: 6435690 BKG: 6435690								
16a Cyanide by 9012B	88		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11297495201B	Sample number(s): 6435690-6435691,6435693 UNSPK: 6435690 BKG: 6435690								
11a Anions by 300.0 - Fluoride	76*		80-120			2.1	1.9	11 (1)	20
11a Anions by 300.0 - Nitrate	95		80-120			0.98 J	0.89 J	9 (1)	20
Batch number: 11299621201A	Sample number(s): 6435696-6435697 UNSPK: 6435696 BKG: 6435696								
11a Anions by 300.0 - Fluoride	38*		80-120			1.5	1.5	2 (1)	20
11a Anions by 300.0 - Nitrate	104		80-120			1.8	1.9	7 (1)	20
Batch number: 11299039402A	Sample number(s): 6435690,6435693,6435696-6435697 BKG: 6435690								
17a pH by 9045C						8.55	8.53	0	3

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11291162401B	Sample number(s): 6435700			BKG: P431141					
Moisture Content by 160.3						4.4	4.3	2	20
Batch number: 11298162401A	Sample number(s): 6435690-6435694,6435696-6435697					BKG: 6435690			
28a Moisture Content by 160.3						2.2	2.3	4 (1)	20
Moisture Content by 160.3						2.2	2.3	4 (1)	20
Moisture Content by 160.3						2.2	2.3	4 (1)	20

Surrogate Quality Control

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

Analysis Name: 21b. NDMA in Water
Batch number: 11286WAH026

	N-Nitrosodimethylamine-d6
6435698	347*
6435699	190*
6435702	305*
Blank	153*
LCS	148
LCSD	160*
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11287SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6435690	95	83	66
6435691	103	89	67
6435692	106	88	66
6435696	93	82	84
6435697	96	84	85
Blank	97	89	87
LCS	99	87	86
MS	103	89	67
MSD	106	88	66
Limits:	40-130	45-130	45-135

Analysis Name: 21a NDMA by 1625C
Batch number: 11290SLD026

	N-Nitrosodimethylamine-d6
6435690	100
6435691	86

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Surrogate Quality Control

6435692	76
6435696	69
6435697	75
6435700	89
Blank	116
LCS	123
MS	86
MSD	76
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11290SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6435690	99	98	95	97	89	89
6435691	104	102	79	101	88	89
6435692	103	103	92	101	88	87
6435696	102	101	102	97	86	88
6435697	95	90	87	86	78	86
Blank	94	95	94	96	87	87
LCS	110	109	106	100	88	83
MS	104	102	79	101	88	89
MSD	103	103	92	101	88	87
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11290WAB026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6435702	59	36	113	103	93	93
Blank	55	33	111	100	91	91
LCS	56	34	106	97	86	85
LCSD	65	40	113	106	93	88
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11290WAJ026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6435702	103	92	86
Blank	95	87	84
LCS	109	97	86
LCSD	110	94	85
Limits:	40-130	45-130	45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11287A20A

	Trifluorotoluene-F
6435701	88
6435702	91
Blank	87
LCS	115

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Surrogate Quality Control

LCSD 114

Limits: 63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11290B16A

	Trifluorotoluene-F
6435690	94
6435691	96
6435692	92
Blank	84
LCS	92
MS	96
MSD	92

Limits: 61-122

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11290B16B

	Trifluorotoluene-F
6435696	80
6435697	93
Blank	94
LCS	92
MS	96
MSD	92

Limits: 61-122

Analysis Name: 20b Formaldehyde 8315A
Batch number: 112860019A

	Butyraldehyde
6435702	96
Blank	87
LCS	103
LCSD	83

Limits: 45-145

Analysis Name: 15a Energetics by 8330A
Batch number: 112880014A

	2-Nitro-m-xylene
6435690	125
6435691	116
6435692	113
6435694	117
6435695	122
6435696	127
6435697	124
Blank	118
LCS	112
LCSD	129
MS	116

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Surrogate Quality Control

MSD	113	
Limits:	80-146	

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 112900011A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6435702	95	107
Blank	94	78
LCS	90	90
LCSD	91	112
Limits:	30-150	45-120

Analysis Name: 15b Energetics by 8330A
Batch number: 112900016A

	2-Nitro-m-xylene
6435702	97
Blank	98
LCS	97
LCSD	90
Limits:	50-134

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112900017A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6435690	100	101
6435691	106	116
6435692	87	84
6435694	98	109
6435695	86	98
6435696	97	107
6435697	96	90
Blank	94	105
LCS	98	114
LCSD	102	115
MS	106	116
MSD	87	84
Limits:	53-139	45-120

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112910002A

	Butyraldehyde
6435690	77
6435691	76
6435692	76
6435694	81
6435695	90
6435696	83
6435697	72
Blank	92

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Surrogate Quality Control

LCS	85
MS	76
MSD	76
Limits:	64-126

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112870007A

	n-Triacontane-d62
6435690	77
6435691	73
6435692	72
6435694	79
6435695	77
6435696	95
6435697	79
Blank	76
LCS	76
MS	73
MSD	72
Limits:	19-152

Analysis Name: 18b Alcohols by 8015B
Batch number: 112870020A

	Acetone
6435702	90
Blank	89
LCS	89
MS	99
MSD	102
Limits:	54-147

Analysis Name: 22b Terphenyls by 8015B
Batch number: 112880013A

	n-Triacontane-d62
6435702	73
Blank	73
LCS	67
LCSD	69
Limits:	17-138

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 112900022A

	Chlorobenzene	Orthoterphenyl
6435702	83	83
Blank	79	79
LCS	86	91
LCSD	84	92
Limits:	28-152	52-131

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Surrogate Quality Control

Analysis Name: 18a Alcohols by 8015B
Batch number: 112900025A

	Acetone
6435690	86
6435691	70
6435692	72
6435694	70
6435695	82
6435696	53
6435697	81
Blank	85
LCS	83
MS	70
MSD	72
Limits:	42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112910012A

	Chlorobenzene	Orthoterphenyl
6435690	88	89
6435691	76	82
6435692	94	78
6435694	64	67
6435695	88	89
6435696	85	83
6435697	79	85
Blank	84	86
LCS	87	88
MS	76	82
MSD	94	78
Limits:	37-125	47-145

Analysis Name: 19b Glycols by 8015B
Batch number: 112910030A

	Tetramethylene glycol
6435702	117
Blank	126
LCS	134
MS	124
MSD	129
Limits:	29-157

Analysis Name: 19a Glycols by 8015B
Batch number: 112930029A

	Tetramethylene glycol
6435690	89
6435691	92
6435692	90
6435696	89

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Surrogate Quality Control

6435697	91
Blank	98
LCS	98
MS	92
MSD	90
Limits:	29-137

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acct# 13013 Cap# 1271034 sample# 6435690-702

CHAIN OF CUSTODY RECORD

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

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-011-SA3-SB-4.5MS	10.12.11	1019	SOIL	NONE	6-Encores										X											MS/MSD
SL-011-SA3-SB-4.0-5.0MS	10.12.11	1025	SOIL	NONE	12-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-096-SA7-SB-2.5	10.12.11	1145	SOIL	NONE	2-Encores										X											
SL-096-SA7-SB-2.0-3.0	10.12.11	1140	SOIL	NONE	1-SS Sleeve			X	X																	
SL-096-SA7-SB-2.0-3.0	10.12.11	1140	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
DUP01-SA3-QC-101211	10.12.11	1035	SOIL	NONE	2-Encores										X											
DUP01-SA3-QC-101211	10.12.11	1035	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
EB-SA3-SB-101211	10.12.11	1423	WATER	NONE	1-1 L Amber														X							HGL ASTM II WATER
TB-101211	10.12.11	0800	WATER	NONE	1-1 L Amber														X							
TB-101211	10.12.11	0800	SOIL	NONE	1-4 oz Jar														X							
TB-101211	10.12.11	0800	WATER	NONE	2-40 mL Vials										X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/12/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	10-13-11 900	8767 9857 5121,5512,5110	

acct#13013 Gp#1271034 sample#6435690-702

CHAIN OF CUSTODY RECORD

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

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/SB7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
EB-SA3-SB-101211	10.12.11	1400	WATER	NONE	10-1 liter ambers			X	X	X						X			X	X		X			X	EB collected for DPT crew
EB-SA3-SB-101211	10.12.11	1400	WATER	NONE	1-500 mL poly		X				X	X	X													
EB-SA3-SB-101211	10.12.11	1400	WATER	HNO3	1-500 mL poly	X																				
EB-SA3-SB-101211	10.12.11	1400	WATER	NaOH	1-500 mL poly																X					
EB-SA3-SB-101211	10.12.11	1400	WATER	NONE	1-250 mL glass													X								
EB-SA3-SB-101211	10.12.11	1400	WATER	HCL	11-40 mL vials										X									X		
EB-SA3-SB-101211	10.12.11	1400	WATER	NONE	4-40 mL vials												X						X			

Relinquished by: (Signature) — **Date/Time** 10/12/2011 / 1630 — **Received for Laboratory by: (Signature)**

Laboratory: Lancaster Laboratories, Inc.

Received by: (Signature) — **Date/Time** 10-13-11 900 — **Airbill No.(s)** 8767 9857 5121,5512,5110

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Thursday, October 13, 2011 2:05 PM
To: Nicole Maljovec
Subject: RE: Bottles and such

I think I put an incorrect label on all of our EBs for yesterday. The COC is correct, they should be called EB-SA3-SB-101211. I think I labeled them with SA7 instead.

Pls let me know if there's a problem with these ! Thanks

Pamela Hartman
CDM
523 W 6th St #400
Los Angeles, CA 90014
Cell 714-900-0916
Direct 818-466-8007

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Thursday, October 13, 2011 10:23 AM
To: Hartman, Pamela
Subject: RE: Bottles and such

I was thinking about that. I'll put in an order for 10 Water NDMA TBs and 10 Soil NDMA TBs right now. It's takes about 4 days to get the bottles to you, so you should have them by 10/19.

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Thursday, October 13, 2011 1:18 PM
To: Nicole Maljovec
Subject: Bottles and such

Hi Nicole

Hope your week has been going well. I would like to put in an order for next week. Could we please have the following:

200 16 oz Jars
Extra round foam discs for packing between jars and bottles

Will we be receiving double soil and water trip blanks next week to cover our onsite sampling and the remote sampling for the week of Oct.
24th?

Thanks!

Pam

Pamela Hartman
CDM
523 W 6th St #400
Los Angeles, CA 90014
Cell 714-900-0916
Direct 818-466-8007

Explanation of Symbols and Abbreviations

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

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

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

> greater than

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

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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

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

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

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

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

October 30, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/13/2011
Group Number: 1271038
SDG: DX149
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-011-SA3-SB-4.0-5.0 Soil	6435711
SL-011-SA3-SB-4.0-5.0MS Soil	6435712
SL-011-SA3-SB-4.0-5.0MSD Soil	6435713
SL-096-SA7-SB-2.0-3.0 Soil	6435714
DUP01-SA3-QC-101211 Soil	6435715
EB-SA3-SB-101211 Water	6435716

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

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

Lancaster Laboratories

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Analysis Report

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

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435711
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

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

X4902 SDG#: DX149-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.2	0.50	0.50	1

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

Sample Description: SL-011-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435711
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

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

X4902 SDG#: DX149-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0475	U	0.0475	1.01	1
11031	12378-PeCDD	40321-76-4	0.0407	U	0.0407	5.07	1
11031	123478-HxCDD	39227-28-6	0.0260	U	0.0260	5.07	1
11031	123678-HxCDD	57653-85-7	0.106	JQ	0.0268	5.07	1
11031	123789-HxCDD	19408-74-3	0.143	JB	0.0273	5.07	1
11031	1234678-HpCDD	35822-46-9	0.940	JB	0.0453	5.07	1
11031	OCDD	3268-87-9	5.84	JB	0.0394	10.1	1
11031	2378-TCDF	51207-31-9	0.0390	U	0.0390	1.01	1
11031	12378-PeCDF	57117-41-6	0.0648	JBQ	0.0269	5.07	1
11031	23478-PeCDF	57117-31-4	0.288	JB	0.0263	5.07	1
11031	123478-HxCDF	70648-26-9	0.247	JBQ	0.0262	5.07	1
11031	123678-HxCDF	57117-44-9	0.0517	JB	0.0245	5.07	1
11031	123789-HxCDF	72918-21-9	0.0282	U	0.0282	5.07	1
11031	234678-HxCDF	60851-34-5	0.0969	JBQ	0.0222	5.07	1
11031	1234678-HpCDF	67562-39-4	0.515	JB	0.0206	5.07	1
11031	1234789-HpCDF	55673-89-7	0.0805	JBQ	0.0292	5.07	1
11031	OCDF	39001-02-0	0.637	JBQ	0.0407	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	85	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435711
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

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

X4902 SDG#: DX149-02BKG

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

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435711
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

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

X4902 SDG#: DX149-02BKG

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/24/2011 17:37	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435712
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

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

X4902 SDG#: DX149-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.2	0.50	0.50	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435712
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

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

X4902 SDG#: DX149-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.9		0.0612	1.00	1
11031	12378-PeCDD	40321-76-4	105	B	0.0565	5.01	1
11031	123478-HxCDD	39227-28-6	98.4	B	0.0589	5.01	1
11031	123678-HxCDD	57653-85-7	93.6		0.0585	5.01	1
11031	123789-HxCDD	19408-74-3	100	B	0.0557	5.01	1
11031	1234678-HpCDD	35822-46-9	98.8	B	0.0725	5.01	1
11031	OCDD	3268-87-9	198	B	0.0661	10.0	1
11031	2378-TCDF	51207-31-9	19.7		0.0489	1.00	1
11031	12378-PeCDF	57117-41-6	101	B	0.0390	5.01	1
11031	23478-PeCDF	57117-31-4	96.0	B	0.0351	5.01	1
11031	123478-HxCDF	70648-26-9	101	B	0.0953	5.01	1
11031	123678-HxCDF	57117-44-9	98.7	B	0.0838	5.01	1
11031	123789-HxCDF	72918-21-9	99.8	B	0.0654	5.01	1
11031	234678-HxCDF	60851-34-5	95.0	B	0.0564	5.01	1
11031	1234678-HpCDF	67562-39-4	91.0	B	0.0676	5.01	1
11031	1234789-HpCDF	55673-89-7	96.5	B	0.0799	5.01	1
11031	OCDF	39001-02-0	196	B	0.0829	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	95	23 - 140
13C12-OCDD	102	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	88	17 - 157

Dioxins/Furans Data Qualifiers:

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

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-011-SA3-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435712
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4902 SDG#: DX149-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435712
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4902 SDG#: DX149-02MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/24/2011 18:34	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435713
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4902 SDG#: DX149-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435713
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4902 SDG#: DX149-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.3		0.0699	1.01	1
11031	12378-PeCDD	40321-76-4	105	B	0.0629	5.07	1
11031	123478-HxCDD	39227-28-6	99.0	B	0.0538	5.07	1
11031	123678-HxCDD	57653-85-7	96.8		0.0545	5.07	1
11031	123789-HxCDD	19408-74-3	103	B	0.0521	5.07	1
11031	1234678-HpCDD	35822-46-9	101	B	0.0719	5.07	1
11031	OCDD	3268-87-9	199	B	0.0753	10.1	1
11031	2378-TCDF	51207-31-9	19.6		0.0595	1.01	1
11031	12378-PeCDF	57117-41-6	103	B	0.0421	5.07	1
11031	23478-PeCDF	57117-31-4	94.4	B	0.0376	5.07	1
11031	123478-HxCDF	70648-26-9	98.6	B	0.100	5.07	1
11031	123678-HxCDF	57117-44-9	99.1	B	0.0888	5.07	1
11031	123789-HxCDF	72918-21-9	99.7	B	0.0642	5.07	1
11031	234678-HxCDF	60851-34-5	96.5	B	0.0557	5.07	1
11031	1234678-HpCDF	67562-39-4	91.6	B	0.0789	5.07	1
11031	1234789-HpCDF	55673-89-7	97.4	B	0.0807	5.07	1
11031	OCDF	39001-02-0	194	B	0.0662	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	103	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	50	26 - 152
13C12-123678-HxCDF	54	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	92	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-011-SA3-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435713
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4902 SDG#: DX149-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435713
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4902 SDG#: DX149-02MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/24/2011 19:30	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

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Analysis Report

Sample Description: SL-096-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SB-2.0-3.0

LLI Sample # SW 6435714
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 11:40

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4903 SDG#: DX149-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-096-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SB-2.0-3.0

LLI Sample # SW 6435714
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 11:40

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4903 SDG#: DX149-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0540	JQ	0.0499	0.997	1
11031	12378-PeCDD	40321-76-4	0.162	JB	0.0452	4.99	1
11031	123478-HxCDD	39227-28-6	0.184	JBQ	0.0419	4.99	1
11031	123678-HxCDD	57653-85-7	0.468	JQ	0.0425	4.99	1
11031	123789-HxCDD	19408-74-3	0.396	JB	0.0419	4.99	1
11031	1234678-HpCDD	35822-46-9	6.84	B	0.0581	4.99	1
11031	OCDD	3268-87-9	101	B	0.0596	9.97	1
11031	2378-TCDF	51207-31-9	0.0429	U	0.0429	0.997	1
11031	12378-PeCDF	57117-41-6	0.135	JBQ	0.0250	4.99	1
11031	23478-PeCDF	57117-31-4	0.219	JBQ	0.0235	4.99	1
11031	123478-HxCDF	70648-26-9	0.0644	JB	0.0333	4.99	1
11031	123678-HxCDF	57117-44-9	0.143	JB	0.0289	4.99	1
11031	123789-HxCDF	72918-21-9	0.251	JB	0.0299	4.99	1
11031	234678-HxCDF	60851-34-5	0.163	JBQ	0.0250	4.99	1
11031	1234678-HpCDF	67562-39-4	1.07	JB	0.0240	4.99	1
11031	1234789-HpCDF	55673-89-7	0.152	JBQ	0.0340	4.99	1
11031	OCDF	39001-02-0	2.53	JB	0.0419	9.97	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	100	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	87	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-096-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SB-2.0-3.0

LLI Sample # SW 6435714
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 11:40

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4903 SDG#: DX149-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-096-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SB-2.0-3.0

LLI Sample # SW 6435714
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 11:40

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4903 SDG#: DX149-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/24/2011 20:27	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP01-SA3-QC-101211 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA3-QC-101211

LLI Sample # SW 6435715
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:35

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4904 SDG#: DX149-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP01-SA3-QC-101211 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA3-QC-101211

LLI Sample # SW 6435715
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:35

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4904 SDG#: DX149-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0428 U	0.0428	1.01	1
11031	12378-PeCDD	40321-76-4	0.0790 JBQ	0.0455	5.05	1
11031	123478-HxCDD	39227-28-6	0.0523 JBQ	0.0329	5.05	1
11031	123678-HxCDD	57653-85-7	0.161 J	0.0351	5.05	1
11031	123789-HxCDD	19408-74-3	0.126 JB	0.0356	5.05	1
11031	1234678-HpCDD	35822-46-9	1.37 JB	0.0434	5.05	1
11031	OCDD	3268-87-9	11.1 B	0.0418	10.1	1
11031	2378-TCDF	51207-31-9	0.0730 J	0.0502	1.01	1
11031	12378-PeCDF	57117-41-6	0.0458 JB	0.0371	5.05	1
11031	23478-PeCDF	57117-31-4	0.572 JB	0.0342	5.05	1
11031	123478-HxCDF	70648-26-9	0.431 JB	0.0380	5.05	1
11031	123678-HxCDF	57117-44-9	0.151 JB	0.0355	5.05	1
11031	123789-HxCDF	72918-21-9	0.0620 JBQ	0.0390	5.05	1
11031	234678-HxCDF	60851-34-5	0.187 JB	0.0324	5.05	1
11031	1234678-HpCDF	67562-39-4	0.551 JB	0.0200	5.05	1
11031	1234789-HpCDF	55673-89-7	0.103 JBQ	0.0260	5.05	1
11031	OCDF	39001-02-0	1.02 JB	0.0356	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	95	32 - 141
13C12-123678-HxCDD	96	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	96	23 - 140
13C12-OCDD	103	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	91	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	88	26 - 138
13C12-OCDF	94	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP01-SA3-QC-101211 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA3-QC-101211

LLI Sample # SW 6435715
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:35

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4904 SDG#: DX149-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP01-SA3-QC-101211 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA3-QC-101211

LLI Sample # SW 6435715
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:35

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4904 SDG#: DX149-04FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/24/2011 21:23	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB-SA3-SB-101211 Water
SSFL Area IV Collocated Soil Sampling
EB-SA3-SB-101211

LLI Sample # WW 6435716
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 14:00

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4905 SDG#: DX149-05EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.436	JQ	0.376	2.03	1
10915	12378-PeCDD	40321-76-4	0.499	JBQ	0.325	10.2	1
10915	123478-HxCDD	39227-28-6	0.305	JQ	0.233	10.2	1
10915	123678-HxCDD	57653-85-7	0.290	JQ	0.243	10.2	1
10915	123789-HxCDD	19408-74-3	0.265	JBQ	0.221	10.2	1
10915	1234678-HpCDD	35822-46-9	3.15	JBQ	0.296	10.2	1
10915	OCDD	3268-87-9	8.35	JB	0.234	20.3	1
10915	2378-TCDF	51207-31-9	0.279	U	0.279	2.03	1
10915	12378-PeCDF	57117-41-6	0.248	JBQ	0.166	10.2	1
10915	23478-PeCDF	57117-31-4	0.485	JB	0.152	10.2	1
10915	123478-HxCDF	70648-26-9	0.319	JBQ	0.150	10.2	1
10915	123678-HxCDF	57117-44-9	0.337	JBQ	0.149	10.2	1
10915	123789-HxCDF	72918-21-9	0.243	JBQ	0.158	10.2	1
10915	234678-HxCDF	60851-34-5	0.426	JBQ	0.139	10.2	1
10915	1234678-HpCDF	67562-39-4	1.86	JB	0.127	10.2	1
10915	1234789-HpCDF	55673-89-7	0.238	JBQ	0.143	10.2	1
10915	OCDF	39001-02-0	1.46	JB	0.285	20.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	83	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA3-SB-101211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA3-SB-101211

LLI Sample # WW 6435716
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 14:00

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4905 SDG#: DX149-05EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11292001	10/21/2011 19:21	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11292001	10/19/2011 06:40	Ginelle L Haines	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271038
Reported: 10/30/11 at 04:18 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11298162401A	Sample number(s): 6435711-6435715									
Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11292001	Sample number(s): 6435716									
2378-TCDD	0.360	U	0.360	2.00	pg/l	103		67-158		
12378-PeCDD	0.541	J	0.280	10.0	pg/l	100		70-142		
123478-HxCDD	0.226	U	0.226	10.0	pg/l	97		70-164		
123678-HxCDD	0.230	U	0.230	10.0	pg/l	94		76-134		
123789-HxCDD	0.623	J	0.222	10.0	pg/l	100		64-162		
1234678-HpCDD	2.75	J	0.205	10.0	pg/l	99		70-140		
OCDD	5.09	J	0.237	20.0	pg/l	98		78-144		
2378-TCDF	0.242	U	0.242	2.00	pg/l	90		75-158		
12378-PeCDF	0.414	J	0.162	10.0	pg/l	100		80-134		
23478-PeCDF	0.934	J	0.145	10.0	pg/l	90		68-160		
123478-HxCDF	0.536	J	0.145	10.0	pg/l	98		72-134		
123678-HxCDF	0.592	J	0.145	10.0	pg/l	97		84-130		
123789-HxCDF	0.484	J	0.164	10.0	pg/l	97		78-130		
234678-HxCDF	0.606	J	0.139	10.0	pg/l	94		70-156		
1234678-HpCDF	2.04	J	0.125	10.0	pg/l	90		82-122		
1234789-HpCDF	0.351	J	0.138	10.0	pg/l	96		78-138		
OCDF	1.52	J	0.243	20.0	pg/l	98		63-170		
Batch number: 11294002	Sample number(s): 6435711-6435715									
2378-TCDD	0.0609	U	0.0609	1.00	ng/kg	107		67-158		
12378-PeCDD	0.0460	J	0.0441	5.00	ng/kg	105		70-142		
123478-HxCDD	0.0460	J	0.0278	5.00	ng/kg	100		70-164		
123678-HxCDD	0.0276	U	0.0276	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0516	J	0.0279	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.267	J	0.0317	5.00	ng/kg	100		70-140		
OCDD	0.461	J	0.0245	10.0	ng/kg	95		78-144		
2378-TCDF	0.0429	U	0.0429	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0382	J	0.0220	5.00	ng/kg	102		80-134		
23478-PeCDF	0.0374	J	0.0203	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0843	J	0.0241	5.00	ng/kg	97		72-134		
123678-HxCDF	0.0224	J	0.0214	5.00	ng/kg	98		84-130		
123789-HxCDF	0.0575	J	0.0180	5.00	ng/kg	98		78-130		
234678-HxCDF	0.0541	J	0.0162	5.00	ng/kg	96		70-156		
1234678-HpCDF	0.154	J	0.0152	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0824	J	0.0190	5.00	ng/kg	96		78-138		
OCDF	0.172	J	0.0394	10.0	ng/kg	97		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271038
Reported: 10/30/11 at 04:18 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11298162401A	Sample number(s): 6435711-6435715					BKG: P435690			
Moisture Content by 160.3						2.2	2.3	4 (1)	20
Batch number: 11294002	Sample number(s): 6435711-6435715 UNSPK: 6435711								
2378-TCDD	109	105	67-158	3	25				
12378-PeCDD	105	104	70-142	0	25				
123478-HxCDD	98	98	70-164	1	25				
123678-HxCDD	93	95	76-134	3	25				
123789-HxCDD	100	102	64-162	3	25				
1234678-HpCDD	98	99	70-140	3	25				
OCDD	96	95	78-144	1	25				
2378-TCDF	98	97	75-158	0	25				
12378-PeCDF	101	102	80-134	2	25				
23478-PeCDF	96	93	68-160	2	25				
123478-HxCDF	100	97	72-134	2	25				
123678-HxCDF	98	98	84-130	0	25				
123789-HxCDF	100	98	78-130	0	25				
234678-HxCDF	95	95	70-156	2	25				
1234678-HpCDF	90	90	82-122	1	25				
1234789-HpCDF	96	96	78-138	1	25				
OCDF	97	95	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11292001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6435716	74	75	69	70	72	75
Blank	66	73	67	67	70	72
OPR	71	69	68	69	70	79
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6435716	75	80	83	74	76	76
Blank	75	82	89	71	73	75
OPR	74	76	77	69	72	75
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271038
Reported: 10/30/11 at 04:18 PM

Surrogate Quality Control

6435716	77	83	85	75	73
Blank	74	83	92	72	71
OPR	74	79	81	72	68
Limits:	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11294002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6435711	73	79	68	77	81	77
6435712	76	80	51	59	84	85
6435713	72	79	50	54	81	84
6435714	73	77	63	69	77	78
6435715	80	82	73	80	91	87
Blank	86	88	61	70	88	96
MS	76	80	51	59	84	85
MSD	72	79	50	54	81	84
OPR	74	77	60	69	78	83
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6435711	92	81	85	80	89	89
6435712	77	83	88	81	90	89
6435713	72	83	92	79	83	84
6435714	88	79	87	78	83	84
6435715	93	88	94	81	95	96
Blank	92	93	100	92	92	97
MS	77	83	88	81	90	89
MSD	72	83	92	79	83	84
OPR	88	82	87	81	86	87
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6435711	86	91	98	73	82
6435712	89	95	102	78	84
6435713	85	92	103	72	79
6435714	83	90	100	73	80
6435715	92	96	103	82	85
Blank	96	108	118	82	92
MS	89	95	102	78	84
MSD	85	92	103	72	79
OPR	86	95	103	73	81
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1271038 sample# 6435711-16

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
						*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	
SL-011-SA3-SB-4.5MS	10.12.11	1019	SOIL	NONE	6-Encores										X										
SL-011-SA3-SB-4.0-5.0MS	10.12.11	1025	SOIL	NONE	12-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	MS/MSD
SL-096-SA7-SB-2.5	10.12.11	1145	SOIL	NONE	2-Encores										X										
SL-096-SA7-SB-2.0-3.0	10.12.11	1140	SOIL	NONE	1-SS Sleeve			X	X																
SL-096-SA7-SB-2.0-3.0	10.12.11	1140	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X	
DUP01-SA3-QC-101211	10.12.11	1035	SOIL	NONE	2-Encores										X										
DUP01-SA3-QC-101211	10.12.11	1035	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	
EB-SA3-SB-101211	10.12.11	1423	WATER	NONE	1-1 L Amber														X						HGL ASTM II WATER
TB-101211	10.12.11	0800	WATER	NONE	1-1 L Amber														X						
TB-101211	10.12.11	0800	SOIL	NONE	1-4 oz Jar														X						
TB-101211	10.12.11	0800	WATER	NONE	2-40 mL Vials										X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Other Instructions and Notes
	10/12/2011 / 1630		Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
	10-13-11 900	8767 9857 5121,5512,5110	

acct# 13013 Gp# 1271038 sample# 6435711-16

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS										SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
						*Metals EPA 6010/6020/6847/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	
EB-SA3-SB-101211	10.12.11	1400	WATER	NONE	10-1 liter ambers			X	X	X						X			X	X		X			X	EB collected for DPT crew
EB-SA3-SB-101211	10.12.11	1400	WATER	NONE	1-500 mL poly		X				X	X	X													
EB-SA3-SB-101211	10.12.11	1400	WATER	HNO3	1-500 mL poly	X																				
EB-SA3-SB-101211	10.12.11	1400	WATER	NaOH	1-500 mL poly																X					
EB-SA3-SB-101211	10.12.11	1400	WATER	NONE	1-250 mL glass													X								
EB-SA3-SB-101211	10.12.11	1400	WATER	HCL	11-40 mL vials										X											
EB-SA3-SB-101211	10.12.11	1400	WATER	NONE	4-40 mL vials												X						X			

Relinquished by: (*Signature*)	Date/Time 10/12/2011 / 1630	Received for Laboratory by: (*Signature*)
Received by: (*Signature*) Brandy Bailey	Date/Time 10-13-11 9a	Airbill No.(s) 8767 9857 5121,5512,5110

Laboratory: Lancaster Laboratories, Inc.

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Thursday, October 13, 2011 2:05 PM
To: Nicole Maljovec
Subject: RE: Bottles and such

I think I put an incorrect label on all of our EBs for yesterday. The COC is correct, they should be called EB-SA3-SB-101211. I think I labeled them with SA7 instead.

Pls let me know if there's a problem with these ! Thanks

Pamela Hartman
CDM
523 W 6th St #400
Los Angeles, CA 90014
Cell 714-900-0916
Direct 818-466-8007

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Thursday, October 13, 2011 10:23 AM
To: Hartman, Pamela
Subject: RE: Bottles and such

I was thinking about that. I'll put in an order for 10 Water NDMA TBs and 10 Soil NDMA TBs right now. It's takes about 4 days to get the bottles to you, so you should have them by 10/19.

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Thursday, October 13, 2011 1:18 PM
To: Nicole Maljovec
Subject: Bottles and such

Hi Nicole

Hope your week has been going well. I would like to put in an order for next week. Could we please have the following:

200 16 oz Jars
Extra round foam discs for packing between jars and bottles

Will we be receiving double soil and water trip blanks next week to cover our onsite sampling and the remote sampling for the week of Oct.
24th?

Thanks!

Pam

Pamela Hartman
CDM
523 W 6th St #400
Los Angeles, CA 90014
Cell 714-900-0916
Direct 818-466-8007

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/14/2011
Group Number: 1271284
SDG: DE268
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-005-SA3-SB-4.0-5.0 Soil	6437193
SL-005-SA3-SB-7.5-8.5 Soil	6437194
SL-089-SA7-SB-3.5-4.5 Soil	6437195
SL-089-SA7-SB-3.5-4.5MS Soil	6437196
SL-089-SA7-SB-3.5-4.5MSD Soil	6437197
SL-089-SA7-SB-3.5-4.5DUP Soil	6437198
SL-089-SA7-SB-3.5-4.5RL MS Soil	6437199
SL-089-SA7-SB-3.5-4.5RL LCS Soil	6437200
DUP09-SA7-QC-101311 Soil	6437201
EB-SA7-SB-101311 Water	6437202
TB-101311 Water	6437203
TB-101311 Sand	6437204
TB-101311 Water	6437205
EB-SA7-SB-101311 Water	6437206

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-005-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-4.0-5.0

LLI Sample # SW 6437193
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:09

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6801 SDG#: DE268-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.1	U	18.1	36.3		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: SL-005-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-4.0-5.0

LLI Sample # SW 6437193
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:09

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6801 SDG#: DE268-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.4		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.84	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	1.9		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.2	J	6.6	20		1
10138	Fluoranthene	206-44-0	3.9		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	1.8	J	0.73	1.8		1
10138	Pyrene	129-00-0	2.7		0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.59
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1

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Sample Description: SL-005-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-4.0-5.0

LLI Sample # SW 6437193
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:09

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6801 SDG#: DE268-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC

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Sample Description: SL-005-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-4.0-5.0

LLI Sample # SW 6437193
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:09

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E6801 SDG#: DE268-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Summary. The following corrective action was taken: The sample was re-extracted outside of the method required holding time, and LCS/LCSD recoveries are within the QC acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extracts.								
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	16,700		6.63	21.9		1
07914	Boron	7440-42-8	0.394	U	0.394	5.48		1
01650	Calcium	7440-70-2	1,910		2.74	21.9		1
01654	Iron	7439-89-6	19,900		2.86	21.9		1
01656	Lithium	7439-93-2	19.1		0.68	2.2		1
01657	Magnesium	7439-95-4	3,610		0.482	11.0		1
06958	Manganese	7439-96-5	201		0.0394	0.548		1
10145	Phosphorus	7723-14-0	153		0.383	11.0		1
01662	Potassium	7440-09-7	1,800		12.0	53.2		1
01667	Sodium	7440-23-5	130		6.33	106		1
07968	Strontium	7440-24-6	21.3		0.0274	0.548		1
06969	Tin	7440-31-5	2.73	J	0.350	11.0		1
06970	Titanium	7440-32-6	1,210		0.0778	1.10		1
10146	Zirconium	7440-67-7	1.56	J	0.504	5.48		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	

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Sample Description: SL-005-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-4.0-5.0

LLI Sample # SW 6437193
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:09

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6801 SDG#: DE268-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.106	J	0.0787	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.76		0.0851	0.425		2
06126	Barium	7440-39-3	113		0.113	0.425		2
06127	Beryllium	7440-41-7	0.861		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.0489	J	0.0468	0.106		2
06131	Chromium	7440-47-3	18.0		0.128	0.425		2
06132	Cobalt	7440-48-4	6.22		0.0213	0.106		2
06133	Copper	7440-50-8	6.71		0.0851	0.425		2
06135	Lead	7439-92-1	6.14		0.0108	0.213		2
06138	Molybdenum	7439-98-7	0.715		0.0532	0.106		2
06139	Nickel	7440-02-0	11.4		0.106	0.425		2
06141	Selenium	7782-49-2	0.0769	J	0.0617	0.425		2
06142	Silver	7440-22-4	0.0647	J	0.0151	0.106		2
06145	Thallium	7440-28-0	0.311		0.0319	0.106		2
06148	Vanadium	7440-62-2	39.1		0.0234	0.106		2
06149	Zinc	7440-66-6	65.1		0.595	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075	U	0.0075	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.11		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-005-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-4.0-5.0

LLI Sample # SW 6437193
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:09

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E6801 SDG#: DE268-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-005-SA3-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11291SLG026	11/01/2011 23:04	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11290SLF026	10/20/2011 02:37	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011 10:07	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11291SLG026	10/19/2011 06:50	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLF026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11293A16A	10/21/2011 04:31	Laura M Krieger	21.59
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128725853	10/14/2011 16:20	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128725853	10/14/2011 16:21	Christopher D Meeks	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880015A	10/21/2011 03:15	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910003A	10/19/2011 21:00	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112910025A	10/21/2011 08:03	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112910025A	10/19/2011 12:00	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910003A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880015A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900028A	10/18/2011 20:55	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/25/2011 22:11	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112920028A	10/21/2011 16:27	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112920027A	10/21/2011 01:39	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112920027A	10/20/2011 12:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112920028A	10/20/2011 12:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900028A	10/18/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011 02:44	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011 02:44	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011 02:44	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011 02:44	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011 02:44	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011 02:44	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011 02:44	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011 02:44	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-005-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-4.0-5.0

LLI Sample # SW 6437193
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:09

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6801 SDG#: DE268-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011 10:34	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011 10:34	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011 02:44	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011 02:44	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011 02:44	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011 02:44	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011 07:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011 07:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011 07:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011 07:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 07:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 07:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 07:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 07:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 07:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 07:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 07:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 07:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 07:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 07:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 07:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 07:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 09:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11298495201A	10/25/2011 17:50	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11298495201A	10/25/2011 17:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201A	10/20/2011 13:41	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11291243201A	10/20/2011 16:22	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201A	10/21/2011 08:09	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11298495201A	10/25/2011 01:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201A	10/20/2011 06:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201A	10/20/2011 15:35	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402B	10/26/2011 15:00	Michele L Graham	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-005-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-4.0-5.0

LLI Sample # SW 6437193
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:09

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6801 SDG#: DE268-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-005-SA3-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-7.5-8.5

LLI Sample # SW 6437194
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 11:34

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6802 SDG#: DE268-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	19.7	U	19.7	39.3		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1

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Sample Description: SL-005-SA3-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-7.5-8.5

LLI Sample # SW 6437194
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 11:34

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6802 SDG#: DE268-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	21		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	21		1
10138	Chrysene	218-01-9	0.40	U	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	21		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	18	J	7.2	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.63
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-005-SA3-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-7.5-8.5

LLI Sample # SW 6437194
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 11:34

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6802 SDG#: DE268-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	720	U	720	1,800		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-005-SA3-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-7.5-8.5

LLI Sample # SW 6437194
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 11:34

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6802 SDG#: DE268-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Summary. The following corrective action was taken: The sample was re-extracted outside of the method required holding time, and LCS/LCSD recoveries are within the QC acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extracts.								
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	120	U	120	600		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	12		1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	12		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	12		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C21-C30)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.4		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	11,300		7.14	23.6		1
07914	Boron	7440-42-8	0.425	U	0.425	5.90		1
01650	Calcium	7440-70-2	1,310		2.95	23.6		1
01654	Iron	7439-89-6	15,300		3.08	23.6		1
01656	Lithium	7439-93-2	18.6		0.73	2.4		1
01657	Magnesium	7439-95-4	3,200		0.519	11.8		1
06958	Manganese	7439-96-5	137		0.0425	0.590		1
10145	Phosphorus	7723-14-0	83.8		0.413	11.8		1
01662	Potassium	7440-09-7	2,170		13.3	59.0		1
01667	Sodium	7440-23-5	181		7.02	118		1
07968	Strontium	7440-24-6	15.7		0.0295	0.590		1
06969	Tin	7440-31-5	2.60	J	0.378	11.8		1
06970	Titanium	7440-32-6	1,090		0.0838	1.18		1
10146	Zirconium	7440-67-7	1.06	J	0.543	5.90		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-005-SA3-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-7.5-8.5

LLI Sample # SW 6437194
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 11:34

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6802 SDG#: DE268-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0882	U	0.0882	0.238		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.89		0.0954	0.477		2
06126	Barium	7440-39-3	65.0		0.126	0.477		2
06127	Beryllium	7440-41-7	0.518		0.0191	0.119		2
06128	Cadmium	7440-43-9	0.0524	U	0.0524	0.119		2
06131	Chromium	7440-47-3	14.0		0.143	0.477		2
06132	Cobalt	7440-48-4	4.28		0.0238	0.119		2
06133	Copper	7440-50-8	5.13		0.0954	0.477		2
06135	Lead	7439-92-1	3.65		0.0122	0.238		2
06138	Molybdenum	7439-98-7	0.212		0.0596	0.119		2
06139	Nickel	7440-02-0	7.76		0.119	0.477		2
06141	Selenium	7782-49-2	0.0691	U	0.0691	0.477		2
06142	Silver	7440-22-4	0.0206	J	0.0169	0.119		2
06145	Thallium	7440-28-0	0.265		0.0358	0.119		2
06148	Vanadium	7440-62-2	28.7		0.0262	0.119		2
06149	Zinc	7440-66-6	40.3		0.667	3.58		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0079	U	0.0079	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.96	U	0.96	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7	J	0.96	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.27		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	16.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-005-SA3-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-7.5-8.5

LLI Sample # SW 6437194
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 11:34

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6802 SDG#: DE268-02

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-005-SA3-SB-8.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11291SLG026	11/01/2011 23:23	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11290SLF026	10/20/2011 03:03	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011 10:40	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11291SLG026	10/19/2011 06:50	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLF026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11293A16A	10/21/2011 05:09	Laura M Krieger	20.63
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128725853	10/14/2011 16:21	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128725853	10/14/2011 16:22	Christopher D Meeks	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880015A	10/21/2011 03:58	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910003A	10/19/2011 21:19	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112910025A	10/23/2011 04:57	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112910025A	10/19/2011 12:00	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910003A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880015A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900028A	10/18/2011 21:12	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/25/2011 22:24	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112920028A	10/21/2011 16:49	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112920027A	10/21/2011 02:03	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112920027A	10/20/2011 12:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112920028A	10/20/2011 12:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900028A	10/18/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011 02:56	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011 02:56	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011 02:56	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011 02:56	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011 02:56	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011 02:56	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011 02:56	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011 02:56	Tara L Snyder	1

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Sample Description: SL-005-SA3-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-7.5-8.5

LLI Sample # SW 6437194
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 11:34

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6802 SDG#: DE268-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011 10:38	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011 10:38	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011 02:56	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011 02:56	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011 02:56	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011 02:56	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011 07:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011 07:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011 07:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011 07:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 07:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 07:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 07:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 07:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 07:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/19/2011 18:39	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 07:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 07:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 07:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 07:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 07:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 07:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 09:47	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11298495201A	10/25/2011 18:05	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11298495201A	10/25/2011 18:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201A	10/20/2011 14:04	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11291243201A	10/20/2011 16:28	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201A	10/21/2011 08:10	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11298495201A	10/25/2011 01:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201A	10/20/2011 06:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201A	10/20/2011 15:35	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402B	10/26/2011 15:00	Michele L Graham	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-005-SA3-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-7.5-8.5

LLI Sample # SW 6437194
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 11:34

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6802 SDG#: DE268-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437195
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.8	U	18.8	37.5		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	28	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-089-SA7-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437195
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Tetralin	119-64-2	190	U	190	190		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.3	J	0.2	1.1		25.3
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1

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Sample Description: SL-089-SA7-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437195
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

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Sample Description: SL-089-SA7-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437195
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside of the method required holding time, and LCS/LCSD recoveries are within the QC acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extracts.								
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.59	J	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	2.5		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	6.2		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.58	J	0.45	1.4		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,200		6.60	21.8		1
07914	Boron	7440-42-8	1.17	J	0.392	5.45		1
01650	Calcium	7440-70-2	3,860		2.73	21.8		1
01654	Iron	7439-89-6	22,900		2.85	21.8		1
01656	Lithium	7439-93-2	31.3		0.68	2.2		1
01657	Magnesium	7439-95-4	6,880		0.480	10.9		1
06958	Manganese	7439-96-5	340		0.0392	0.545		1
10145	Phosphorus	7723-14-0	493		0.382	10.9		1
01662	Potassium	7440-09-7	2,680		12.4	55.0		1
01667	Sodium	7440-23-5	134		6.55	110		1
07968	Strontium	7440-24-6	14.3		0.0273	0.545		1
06969	Tin	7440-31-5	2.96	J	0.349	10.9		1
06970	Titanium	7440-32-6	1,370		0.0774	1.09		1
10146	Zirconium	7440-67-7	1.02	J	0.501	5.45		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437195
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.153 J	0.0831	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.29	0.0898	0.449		2
06126	Barium	7440-39-3	96.4	0.119	0.449		2
06127	Beryllium	7440-41-7	0.548	0.0180	0.112		2
06128	Cadmium	7440-43-9	0.0810 J	0.0494	0.112		2
06131	Chromium	7440-47-3	19.6	0.135	0.449		2
06132	Cobalt	7440-48-4	6.53	0.0225	0.112		2
06133	Copper	7440-50-8	9.47	0.0898	0.449		2
06135	Lead	7439-92-1	5.14	0.0115	0.225		2
06138	Molybdenum	7439-98-7	0.301	0.0561	0.112		2
06139	Nickel	7440-02-0	13.1	0.112	0.449		2
06141	Selenium	7782-49-2	0.184 J	0.0651	0.449		2
06142	Silver	7440-22-4	0.0383 J	0.0159	0.112		2
06145	Thallium	7440-28-0	0.277	0.0337	0.112		2
06148	Vanadium	7440-62-2	38.8	0.0247	0.112		2
06149	Zinc	7440-66-6	62.3	0.629	3.37		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0077 J	0.0075	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5	0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.3	0.92	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	34.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.86	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: SL-089-SA7-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437195
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03BKG

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-089-SA7-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11291SLG026	11/01/2011 23:42	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11290SLF026	10/20/2011 03:28	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011 01:05	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11291SLG026	10/19/2011 06:50	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLF026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11293A16A	10/21/2011 02:00	Laura M Krieger	25.3
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128725853	10/14/2011 16:24	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128725853	10/14/2011 16:24	Christopher D Meeks	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880015A	10/21/2011 04:40	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910003A	10/19/2011 21:28	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112910025A	10/21/2011 08:41	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112910025A	10/19/2011 12:00	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910003A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880015A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900028A	10/18/2011 21:28	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/25/2011 22:37	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112920028A	10/21/2011 20:08	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112920027A	10/21/2011 02:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112920027A	10/20/2011 12:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112920028A	10/20/2011 12:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900028A	10/18/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011 02:20	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011 19:41	John P Hook	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011 02:20	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011 02:20	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011 02:20	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011 02:20	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011 02:20	Tara L Snyder	1

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Sample Description: SL-089-SA7-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437195
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

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E6803 SDG#: DE268-03BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011 02:20	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011 10:12	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011 10:12	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011 02:20	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011 02:20	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011 02:20	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011 02:20	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011 07:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011 07:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011 07:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011 07:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 07:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 07:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 07:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 07:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 07:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 07:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 07:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 07:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 07:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 07:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 07:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 07:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 09:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11298495201A	10/25/2011 17:02	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11298495201A	10/25/2011 17:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201A	10/20/2011 11:45	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11292243201A	10/20/2011 15:33	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201B	10/21/2011 08:12	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11298495201A	10/25/2011 01:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201A	10/20/2011 06:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201B	10/20/2011 15:35	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402B	10/26/2011 15:00	Michele L Graham	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437195
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437196
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	916		18.9	37.8		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,900		19	190		1
04688	Acenaphthylene	208-96-8	2,000		19	190		1
04688	Aniline	62-53-3	1,700		190	570		1
04688	Anthracene	120-12-7	1,900		19	190		1
04688	Benzidine	92-87-5	4,500		1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,900		19	190		1
04688	Benzo(a)pyrene	50-32-8	2,000		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	2,100		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	2,000		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		19	190		1
04688	Benzoic acid	65-85-0	1,200		190	570		1
04688	Benzyl alcohol	100-51-6	2,000		190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	2,000		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,900		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,800		19	190		1
04688	Carbazole	86-74-8	1,800		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	2,000		38	190		1
04688	4-Chloroaniline	106-47-8	1,300		75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	2,000		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	2,000		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	2,000		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,500		19	190		1
04688	2-Chlorophenol	95-57-8	1,900		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	2,000		38	190		1
04688	Chrysene	218-01-9	1,800		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	2,100		19	190		1
04688	Dibenzofuran	132-64-9	1,900		19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,700		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,700		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,700		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400		110	380		1
04688	2,4-Dichlorophenol	120-83-2	2,000		19	190		1
04688	Diethylphthalate	84-66-2	1,800		19	190		1
04688	2,4-Dimethylphenol	105-67-9	2,000		38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	Dimethylphthalate	131-11-3	1,900		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	650		190	570		1
04688	2,4-Dinitrophenol	51-28-5	1,200		380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,900		38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,900		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	2,100		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000		19	380		1
04688	Fluoranthene	206-44-0	1,900		19	190		1
04688	Fluorene	86-73-7	1,900		19	190		1
04688	Hexachlorobenzene	118-74-1	2,000		19	190		1
04688	Hexachlorobutadiene	87-68-3	1,900		75	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-089-SA7-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437196
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorocyclopentadiene	77-47-4	1,900		190	570		1
04688	Hexachloroethane	67-72-1	1,600		19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,000		19	190		1
04688	Isophorone	78-59-1	2,100		19	190		1
04688	1-Methylnaphthalene	90-12-0	1,800		19	190		1
04688	2-Methylnaphthalene	91-57-6	1,900		19	190		1
04688	2-Methylphenol	95-48-7	2,000		38	190		1
04688	4-Methylphenol	106-44-5	2,000		38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,900		19	190		1
04688	2-Nitroaniline	88-74-4	2,100		19	190		1
04688	3-Nitroaniline	99-09-2	1,900		38	190		1
04688	4-Nitroaniline	100-01-6	1,500		75	190		1
04688	Nitrobenzene	98-95-3	2,100		19	190		1
04688	2-Nitrophenol	88-75-5	2,000		19	190		1
04688	4-Nitrophenol	100-02-7	1,600		190	570		1
04688	N-Nitrosodimethylamine	62-75-9	2,100		38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,900		19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900		19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	2,100		19	190		1
04688	Pentachlorophenol	87-86-5	1,500		190	570		1
04688	Phenanthrene	85-01-8	1,800		19	190		1
04688	Phenol	108-95-2	1,900		19	190		1
04688	Pyrene	129-00-0	1,800		19	190		1
04688	Tetralin	119-64-2	190	U	190	190		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	1,900		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	2,000		38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	2,100		38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	35		0.76	1.9		1
10138	Acenaphthylene	208-96-8	34		0.38	1.9		1
10138	Anthracene	120-12-7	36		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	36		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	35		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	37		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	29		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	37		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	40		6.8	20		1
10138	Di-n-butylphthalate	84-74-2	42		6.8	20		1
10138	Chrysene	218-01-9	36		0.38	1.9		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437196
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	32		0.76	1.9		1
10138	Diethylphthalate	84-66-2	39		6.8	20		1
10138	Dimethylphthalate	131-11-3	38		6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	63		6.8	20		1
10138	Fluoranthene	206-44-0	37		0.76	1.9		1
10138	Fluorene	86-73-7	37		0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	32		0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	33		0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	32		0.76	1.9		1
10138	Naphthalene	91-20-3	34		0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	33		0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	53		6.8	20		1
10138	Phenanthrene	85-01-8	34		0.76	1.9		1
10138	Pyrene	129-00-0	36		0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	9.0		0.2	1.1		24.13
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,400		68	140		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,400		45	140		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270		1
10132	1,3-Dinitrobenzene	99-65-0	2,500		45	140		1
10132	2,4-Dinitrotoluene	121-14-2	2,200		45	140		1
10132	2,6-Dinitrotoluene	606-20-2	2,400		45	140		1
10132	HMX	2691-41-0	2,100		110	340		1
10132	Nitrobenzene	98-95-3	2,300		45	140		1
10132	Nitroglycerin	55-63-0	54,000		910	2,700		1
10132	2-Nitrotoluene	88-72-2	2,300		91	140		1
10132	3-Nitrotoluene	99-08-1	2,400		110	140		1
10132	4-Nitrotoluene	99-99-0	2,200		91	140		1
10132	PETN	78-11-5	57,000		910	2,700		1
10132	RDX	121-82-4	2,200		57	140		1
10132	Tetryl	479-45-8	2,000		69	140		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,200		45	140		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,300		45	140		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	5,600		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	12		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1

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Sample Description: SL-089-SA7-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437196
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	15		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside of the method required holding time, and LCS/LCSD recoveries are within the QC acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,100		110	570		1
10501	Isopropanol	67-63-0	2,000		110	570		1
10501	Methanol	67-56-1	2,100		110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	110		5.7	11		1
08283	Ethylene glycol	107-21-1	160		5.7	11		1
08283	Propylene glycol	57-55-6	170		5.7	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	9.0		1.7	4.0		1
10318	o-Terphenyl	84-15-1	9.6		1.7	4.0		1
10318	p-Terphenyl	92-94-4	9.1		1.7	4.0		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.78	J	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	1.7		0.45	1.4		1
10199	EFH (C21-C30)	n.a.	5.0		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	9.3		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.57	J	0.45	1.4		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,700		6.66	22.0		1
07914	Boron	7440-42-8	228		0.396	5.50		1
01650	Calcium	7440-70-2	4,550		2.75	22.0		1
01654	Iron	7439-89-6	25,500		2.87	22.0		1
01656	Lithium	7439-93-2	143		0.68	2.2		1

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Sample Description: SL-089-SA7-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437196
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	7,750	0.484	11.0		1
06958	Manganese	7439-96-5	365	0.0396	0.550		1
10145	Phosphorus	7723-14-0	588	0.385	11.0		1
01662	Potassium	7440-09-7	4,120	12.7	56.1		1
01667	Sodium	7440-23-5	1,240	6.68	112		1
07968	Strontium	7440-24-6	125	0.0275	0.550		1
06969	Tin	7440-31-5	400	0.352	11.0		1
06970	Titanium	7440-32-6	1,710	0.0782	1.10		1
10146	Zirconium	7440-67-7	108	0.506	5.50		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.676	0.0823	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.53	0.0889	0.445		2
06126	Barium	7440-39-3	112	0.118	0.445		2
06127	Beryllium	7440-41-7	1.36	0.0178	0.111		2
06128	Cadmium	7440-43-9	1.32	0.0489	0.111		2
06131	Chromium	7440-47-3	30.2	0.133	0.445		2
06132	Cobalt	7440-48-4	65.2	0.0222	0.111		2
06133	Copper	7440-50-8	21.3	0.0889	0.445		2
06135	Lead	7439-92-1	9.11	0.0113	0.222		2
06138	Molybdenum	7439-98-7	11.9	0.0556	0.111		2
06139	Nickel	7440-02-0	25.5	0.111	0.445		2
06141	Selenium	7782-49-2	2.48	0.0645	0.445		2
06142	Silver	7440-22-4	11.5	0.0158	0.111		2
06145	Thallium	7440-28-0	0.737	0.0333	0.111		2
06148	Vanadium	7440-62-2	49.8	0.0245	0.111		2
06149	Zinc	7440-66-6	74.6	0.622	3.33		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.194	0.0078	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.6	0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	14.4	0.92	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	647	10.2	34.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	38.9	1.1	5.5		5
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	5.6	0.20	0.56		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437196
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	11.8	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-089-SA7-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11291SLG026	11/02/2011 00:20	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11290SLF026	10/20/2011 03:54	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011 01:38	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11291SLG026	10/19/2011 06:50	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLF026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11293A16A	10/21/2011 02:38	Laura M Krieger	24.13
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128725853	10/14/2011 16:24	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128725853	10/14/2011 16:25	Christopher D Meeks	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880015A	10/21/2011 05:22	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910003A	10/19/2011 21:38	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112910025A	10/21/2011 09:00	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112910025A	10/19/2011 12:00	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910003A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880015A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900028A	10/18/2011 23:40	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/25/2011 22:50	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112920028A	10/21/2011 20:30	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112920027A	10/21/2011 02:51	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112920027A	10/20/2011 12:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112920028A	10/20/2011 12:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900028A	10/18/2011 17:00	Elizabeth J Marin	1

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Sample Description: SL-089-SA7-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437196
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011 02:32	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011 19:53	John P Hook	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011 02:32	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011 02:32	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011 02:32	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011 02:32	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011 02:32	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011 02:32	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011 10:23	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011 10:23	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011 02:32	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011 02:32	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011 02:32	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011 02:32	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011 07:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011 07:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011 07:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011 07:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 07:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 07:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 07:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 07:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 07:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 07:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 07:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 07:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 07:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 07:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 07:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 07:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 09:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11298495201A	10/25/2011 17:34	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11298495201A	10/25/2011 17:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201A	10/20/2011 12:32	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11292243201A	10/20/2011 15:55	Elyse P Brunstetter	5

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Analysis Report

Sample Description: **SL-089-SA7-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437196
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201B	10/21/2011 08:13	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11298495201A	10/25/2011 01:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201A	10/20/2011 06:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201B	10/20/2011 15:35	Carolyn M Mastropietro	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437197
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	902		18.9	37.8		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,900		19	190		1
04688	Acenaphthylene	208-96-8	2,100		19	190		1
04688	Aniline	62-53-3	1,600		190	560		1
04688	Anthracene	120-12-7	1,900		19	190		1
04688	Benzidine	92-87-5	3,800		1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,900		19	190		1
04688	Benzo(a)pyrene	50-32-8	2,000		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	2,100		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	2,000		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		19	190		1
04688	Benzoic acid	65-85-0	730		190	560		1
04688	Benzyl alcohol	100-51-6	2,000		190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	2,100		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,900		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,900		19	190		1
04688	Carbazole	86-74-8	1,800		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,900		38	190		1
04688	4-Chloroaniline	106-47-8	1,300		75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	2,000		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	2,000		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	2,000		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,500		19	190		1
04688	2-Chlorophenol	95-57-8	2,000		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	2,000		38	190		1
04688	Chrysene	218-01-9	1,800		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	2,100		19	190		1
04688	Dibenzofuran	132-64-9	1,900		19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,700		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,600		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,600		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,300		110	380		1
04688	2,4-Dichlorophenol	120-83-2	2,000		19	190		1
04688	Diethylphthalate	84-66-2	1,800		19	190		1
04688	2,4-Dimethylphenol	105-67-9	2,000		38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	Dimethylphthalate	131-11-3	1,900		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	390	J	190	560		1
04688	2,4-Dinitrophenol	51-28-5	1,200		380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,900		38	190		1
04688	2,6-Dinitrotoluene	606-20-2	2,000		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	2,200		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000		19	380		1
04688	Fluoranthene	206-44-0	1,900		19	190		1
04688	Fluorene	86-73-7	1,900		19	190		1
04688	Hexachlorobenzene	118-74-1	2,000		19	190		1
04688	Hexachlorobutadiene	87-68-3	1,900		75	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-089-SA7-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437197
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorocyclopentadiene	77-47-4	2,600		190	560		1
04688	Hexachloroethane	67-72-1	1,600		19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,000		19	190		1
04688	Isophorone	78-59-1	2,100		19	190		1
04688	1-Methylnaphthalene	90-12-0	1,800		19	190		1
04688	2-Methylnaphthalene	91-57-6	1,800		19	190		1
04688	2-Methylphenol	95-48-7	2,000		38	190		1
04688	4-Methylphenol	106-44-5	2,000		38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,800		19	190		1
04688	2-Nitroaniline	88-74-4	2,100		19	190		1
04688	3-Nitroaniline	99-09-2	1,800		38	190		1
04688	4-Nitroaniline	100-01-6	1,500		75	190		1
04688	Nitrobenzene	98-95-3	2,100		19	190		1
04688	2-Nitrophenol	88-75-5	1,900		19	190		1
04688	4-Nitrophenol	100-02-7	1,500		190	560		1
04688	N-Nitrosodimethylamine	62-75-9	2,100		38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,900		19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	2,000		19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	2,100		19	190		1
04688	Pentachlorophenol	87-86-5	1,100		190	560		1
04688	Phenanthrene	85-01-8	1,800		19	190		1
04688	Phenol	108-95-2	2,000		19	190		1
04688	Pyrene	129-00-0	1,900		19	190		1
04688	Tetralin	119-64-2	190	U	190	190		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	1,900		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	2,000		38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	2,000		38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	38		0.76	1.9		1
10138	Acenaphthylene	208-96-8	37		0.38	1.9		1
10138	Anthracene	120-12-7	39		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	38		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	38		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	40		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	32		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	39		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	45		6.8	20		1
10138	Di-n-butylphthalate	84-74-2	60		6.8	20		1
10138	Chrysene	218-01-9	38		0.38	1.9		1

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Sample Description: SL-089-SA7-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437197
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	35		0.76	1.9		1
10138	Diethylphthalate	84-66-2	48		6.8	20		1
10138	Dimethylphthalate	131-11-3	40		6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	55		6.8	20		1
10138	Fluoranthene	206-44-0	39		0.76	1.9		1
10138	Fluorene	86-73-7	39		0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	35		0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	35		0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	35		0.76	1.9		1
10138	Naphthalene	91-20-3	36		0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	36		0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	43		6.8	20		1
10138	Phenanthrene	85-01-8	37		0.76	1.9		1
10138	Pyrene	129-00-0	38		0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	9.8		0.2	1.0		22.69
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,500		68	140		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,400		45	140		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270		1
10132	1,3-Dinitrobenzene	99-65-0	2,500		45	140		1
10132	2,4-Dinitrotoluene	121-14-2	2,300		45	140		1
10132	2,6-Dinitrotoluene	606-20-2	2,400		45	140		1
10132	HMX	2691-41-0	2,100		110	340		1
10132	Nitrobenzene	98-95-3	2,400		45	140		1
10132	Nitroglycerin	55-63-0	54,000		910	2,700		1
10132	2-Nitrotoluene	88-72-2	2,300		91	140		1
10132	3-Nitrotoluene	99-08-1	2,500		110	140		1
10132	4-Nitrotoluene	99-99-0	2,300		91	140		1
10132	PETN	78-11-5	59,000		910	2,700		1
10132	RDX	121-82-4	2,200		57	140		1
10132	Tetryl	479-45-8	1,900		69	140		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,300		45	140		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,400		45	140		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	5,900		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	12		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1

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Sample Description: SL-089-SA7-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437197
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	16		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside of the method required holding time, and LCS/LCSD recoveries are within the QC acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,100		110	570		1
10501	Isopropanol	67-63-0	2,000		110	570		1
10501	Methanol	67-56-1	2,000		110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	110		5.7	11		1
08283	Ethylene glycol	107-21-1	160		5.7	11		1
08283	Propylene glycol	57-55-6	170		5.7	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	9.1		1.7	4.0		1
10318	o-Terphenyl	84-15-1	9.7		1.7	4.0		1
10318	p-Terphenyl	92-94-4	9.3		1.7	4.0		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.85	J	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	2.0		0.45	1.4		1
10199	EFH (C21-C30)	n.a.	5.3		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	10		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.62	J	0.45	1.4		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,600		6.72	22.2		1
07914	Boron	7440-42-8	227		0.400	5.56		1
01650	Calcium	7440-70-2	4,390		2.78	22.2		1
01654	Iron	7439-89-6	40,400		5.80	44.5		2
01656	Lithium	7439-93-2	140		0.69	2.2		1

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Sample Description: SL-089-SA7-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437197
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	7,340	0.489	11.1		1
06958	Manganese	7439-96-5	381	0.0400	0.556		1
10145	Phosphorus	7723-14-0	594	0.389	11.1		1
01662	Potassium	7440-09-7	3,990	12.4	55.0		1
01667	Sodium	7440-23-5	1,200	6.55	110		1
07968	Strontium	7440-24-6	123	0.0278	0.556		1
06969	Tin	7440-31-5	398	0.356	11.1		1
06970	Titanium	7440-32-6	1,690	0.0789	1.11		1
10146	Zirconium	7440-67-7	109	0.511	5.56		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.731	0.0831	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.72	0.0898	0.449		2
06126	Barium	7440-39-3	112	0.119	0.449		2
06127	Beryllium	7440-41-7	1.46	0.0180	0.112		2
06128	Cadmium	7440-43-9	1.29	0.0494	0.112		2
06131	Chromium	7440-47-3	33.1	0.135	0.449		2
06132	Cobalt	7440-48-4	67.4	0.0225	0.112		2
06133	Copper	7440-50-8	22.5	0.0898	0.449		2
06135	Lead	7439-92-1	10.1	0.0115	0.225		2
06138	Molybdenum	7439-98-7	12.7	0.0561	0.112		2
06139	Nickel	7440-02-0	26.2	0.112	0.449		2
06141	Selenium	7782-49-2	2.84	0.0651	0.449		2
06142	Silver	7440-22-4	12.3	0.0159	0.112		2
06145	Thallium	7440-28-0	0.823	0.0337	0.112		2
06148	Vanadium	7440-62-2	54.1	0.0247	0.112		2
06149	Zinc	7440-66-6	78.6	0.629	3.37		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.187	0.0077	0.109		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	11.8	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-089-SA7-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-089-SA7-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437197
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11291SLG026	11/02/2011 00:39	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11290SLF026	10/20/2011 04:19	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011 02:10	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11291SLG026	10/19/2011 06:50	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLF026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11293A16A	10/21/2011 03:16	Laura M Krieger	22.69
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128725853	10/14/2011 16:25	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128725853	10/14/2011 16:25	Christopher D Meeks	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880015A	10/21/2011 06:05	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910003A	10/19/2011 21:47	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112910025A	10/21/2011 09:19	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112910025A	10/19/2011 12:00	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910003A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880015A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900028A	10/18/2011 23:57	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/25/2011 23:03	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112920028A	10/21/2011 20:52	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112920027A	10/21/2011 03:15	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112920027A	10/20/2011 12:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112920028A	10/20/2011 12:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900028A	10/18/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011 02:36	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011 19:57	John P Hook	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011 02:36	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011 20:05	John P Hook	2
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011 02:36	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011 02:36	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011 02:36	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011 02:36	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011 10:27	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011 10:27	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011 02:36	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011 02:36	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011 02:36	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011 02:36	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011 07:32	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437197
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011 07:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011 07:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011 07:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 07:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 07:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 07:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 07:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 07:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 07:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 07:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 07:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 07:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 07:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 07:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 07:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 09:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437198
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,500		6.66	22.0		1
07914	Boron	7440-42-8	0.914	J	0.396	5.50		1
01650	Calcium	7440-70-2	3,910		2.75	22.0		1
01654	Iron	7439-89-6	23,400		2.87	22.0		1
01656	Lithium	7439-93-2	32.1		0.68	2.2		1
01657	Magnesium	7439-95-4	6,870		0.484	11.0		1
06958	Manganese	7439-96-5	313		0.0396	0.550		1
10145	Phosphorus	7723-14-0	459		0.385	11.0		1
01662	Potassium	7440-09-7	2,740		12.6	55.6		1
01667	Sodium	7440-23-5	130		6.61	111		1
07968	Strontium	7440-24-6	13.7		0.0275	0.550		1
06969	Tin	7440-31-5	2.78	J	0.352	11.0		1
06970	Titanium	7440-32-6	1,340		0.0782	1.10		1
10146	Zirconium	7440-67-7	1.52	J	0.506	5.50		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.142	J	0.0807	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.30		0.0872	0.436		2
06126	Barium	7440-39-3	106		0.116	0.436		2
06127	Beryllium	7440-41-7	0.610		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.0998	J	0.0480	0.109		2
06131	Chromium	7440-47-3	23.3		0.131	0.436		2
06132	Cobalt	7440-48-4	7.09		0.0218	0.109		2
06133	Copper	7440-50-8	11.4		0.0872	0.436		2
06135	Lead	7439-92-1	5.90		0.0111	0.218		2
06138	Molybdenum	7439-98-7	0.328		0.0545	0.109		2
06139	Nickel	7440-02-0	15.7		0.109	0.436		2
06141	Selenium	7782-49-2	0.174	J	0.0632	0.436		2
06142	Silver	7440-22-4	0.0322	J	0.0155	0.109		2
06145	Thallium	7440-28-0	0.322		0.0327	0.109		2
06148	Vanadium	7440-62-2	46.4		0.0240	0.109		2
06149	Zinc	7440-66-6	72.6		0.611	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078	U	0.0078	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.2		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.5		0.22	1.1		1

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437198
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.90		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	11.7		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							
11625	Moisture Content by 160.3	n.a.	11.8		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011	02:28	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011	19:49	John P Hook	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011	02:28	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011	02:28	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011	02:28	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011	02:28	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011	02:28	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011	02:28	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011	10:20	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011	10:20	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011	02:28	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011	02:28	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011	02:28	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011	02:28	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011	07:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011	07:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011	07:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011	07:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011	07:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011	07:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011	07:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011	07:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011	07:26	Choon Y Tian	2

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437198
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 07:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 07:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 07:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 07:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 07:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 07:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 07:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 09:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11298495201A	10/25/2011 17:18	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11298495201A	10/25/2011 17:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201A	10/20/2011 12:09	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11292243201A	10/20/2011 16:38	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201B	10/21/2011 08:14	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11298495201A	10/25/2011 01:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201A	10/20/2011 06:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201B	10/20/2011 15:35	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402B	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437199
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	110	J	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	120	J	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	120	J	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	110	J	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	110	J	45	140	10000000	1
10132	HMX	2691-41-0	130	J	110	340	10000000	1
10132	Nitrobenzene	98-95-3	110	J	45	140	10000000	1
10132	Nitroglycerin	55-63-0	2,900		910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	140		91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	J	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	110	J	91	140	10000000	1
10132	PETN	78-11-5	2,800		910	2,700	10000000	1
10132	RDX	121-82-4	91	J	57	140	10000000	1
10132	Tetryl	479-45-8	72	J	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	120	J	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	110	J	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	2,100		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	1.5	J	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437199
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	1.6	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside of the method required holding time, and LCS/LCSD recoveries are within the QC acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	530	J	110	570		1
10501	Isopropanol	67-63-0	470	J	110	570		1
10501	Methanol	67-56-1	510	J	110	570		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	J	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.9	J	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	1.0	J	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	3.6		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	7.7		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	11.8		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437199
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03RLR

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	15a Energetics by 8330A	SW-846 8330A	1	112880015A	10/21/2011 08:12	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910003A	10/19/2011 21:57	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112910025A	10/21/2011 10:53	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112910025A	10/19/2011 12:00	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910003A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880015A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900028A	10/19/2011 00:13	Elizabeth J Marin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112920028A	10/21/2011 19:24	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112920027A	10/21/2011 03:39	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112920027A	10/20/2011 12:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112920028A	10/20/2011 12:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900028A	10/18/2011 17:00	Elizabeth J Marin	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437200
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	120	J	60	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	110	J	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	80	U	80	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	80	U	80	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	110	J	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	110	J	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	110	J	40	120	10000000	1
10132	HMX	2691-41-0	110	J	100	300	10000000	1
10132	Nitrobenzene	98-95-3	98	J	40	120	10000000	1
10132	Nitroglycerin	55-63-0	2,100	J	800	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	110	J	80	120	10000000	1
10132	3-Nitrotoluene	99-08-1	120	J	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	120		80	120	10000000	1
10132	PETN	78-11-5	2,500		800	2,400	10000000	1
10132	RDX	121-82-4	100	J	50	120	10000000	1
10132	Tetryl	479-45-8	100	J	61	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	110	J	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	110	J	40	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	1,800		600	1,500		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	1.4	J	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437200
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	1.7		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside of the method required holding time, and LCS/LCSD recoveries are within the QC acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	610		100	500		1
10501	Isopropanol	67-63-0	530		100	500		1
10501	Methanol	67-56-1	600		100	500		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	J	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.7	J	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	0.72	J	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	1.3		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	2.2		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	15a Energetics by 8330A	SW-846 8330A	1	112880015A	10/21/2011 08:55	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910003A	10/19/2011 22:06	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112910025A	10/21/2011 11:12	Jessica L Miller	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437200
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03RLQ

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112910025A	10/19/2011 12:00	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910003A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880015A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900028A	10/19/2011 00:30	Elizabeth J Marin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112920028A	10/21/2011 17:11	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112920027A	10/21/2011 04:03	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112920027A	10/20/2011 12:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112920028A	10/20/2011 12:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900028A	10/18/2011 17:00	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: DUP09-SA7-QC-101311 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA7-QC-101311

LLI Sample # SW 6437201
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:40

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6804 SDG#: DE268-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.4	U	18.4	36.9		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP09-SA7-QC-101311 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA7-QC-101311

LLI Sample # SW 6437201
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:40

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6804 SDG#: DE268-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	8.7		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	14		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	18		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	9.0		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	6.6		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	10		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	2.2		0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	28		6.7	20		1
10138	Fluoranthene	206-44-0	8.7		0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	8.3		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	1.0	J	0.75	1.9		1
10138	Pyrene	129-00-0	8.9		0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.08
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP09-SA7-QC-101311 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA7-QC-101311

LLI Sample # SW 6437201
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:40

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6804 SDG#: DE268-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	14		1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	1.5	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.90	J	0.44	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP09-SA7-QC-101311 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA7-QC-101311

LLI Sample # SW 6437201
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:40

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6804 SDG#: DE268-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside of the method required holding time, and LCS/LCSD recoveries are within the QC acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.63	J	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	2.3		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	6.4		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,800		6.58	21.8		1
07914	Boron	7440-42-8	1.17	J	0.392	5.44		1
01650	Calcium	7440-70-2	3,810		2.72	21.8		1
01654	Iron	7439-89-6	22,600		2.84	21.8		1
01656	Lithium	7439-93-2	28.7		0.67	2.2		1
01657	Magnesium	7439-95-4	6,610		0.479	10.9		1
06958	Manganese	7439-96-5	320		0.0392	0.544		1
10145	Phosphorus	7723-14-0	447		0.381	10.9		1
01662	Potassium	7440-09-7	2,440		12.2	53.9		1
01667	Sodium	7440-23-5	116		6.41	108		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP09-SA7-QC-101311 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA7-QC-101311

LLI Sample # SW 6437201
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:40

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6804 SDG#: DE268-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07968	Strontium	7440-24-6	13.3	0.0272	0.544		1
06969	Tin	7440-31-5	2.56 J	0.348	10.9		1
06970	Titanium	7440-32-6	1,300	0.0773	1.09		1
10146	Zirconium	7440-67-7	0.813 J	0.501	5.44		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0805 U	0.0805	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.70	0.0871	0.435		2
06126	Barium	7440-39-3	100	0.115	0.435		2
06127	Beryllium	7440-41-7	0.650	0.0174	0.109		2
06128	Cadmium	7440-43-9	0.0996 J	0.0479	0.109		2
06131	Chromium	7440-47-3	22.6	0.131	0.435		2
06132	Cobalt	7440-48-4	7.69	0.0218	0.109		2
06133	Copper	7440-50-8	10.7	0.0871	0.435		2
06135	Lead	7439-92-1	6.46	0.0111	0.218		2
06138	Molybdenum	7439-98-7	0.383	0.0544	0.109		2
06139	Nickel	7440-02-0	14.9	0.109	0.435		2
06141	Selenium	7782-49-2	0.191 J	0.0631	0.435		2
06142	Silver	7440-22-4	0.0387 J	0.0155	0.109		2
06145	Thallium	7440-28-0	0.301	0.0327	0.109		2
06148	Vanadium	7440-62-2	45.1	0.0239	0.109		2
06149	Zinc	7440-66-6	68.3	0.610	3.27		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078 U	0.0078	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3	0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.3	0.88	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.83	0.0100	0.0100		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP09-SA7-QC-101311 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA7-QC-101311

LLI Sample # SW 6437201
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:40

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6804 SDG#: DE268-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	10.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11291SLG026	11/02/2011 00:58	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11290SLF026	10/20/2011 04:44	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011 11:13	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11291SLG026	10/19/2011 06:50	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLF026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11293A16A	10/21/2011 05:47	Laura M Krieger	24.08
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128725853	10/14/2011 16:26	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128725853	10/14/2011 16:27	Christopher D Meeks	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880015A	10/21/2011 09:37	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910003A	10/19/2011 22:16	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112910025A	10/21/2011 11:31	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112910025A	10/19/2011 12:00	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910003A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880015A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900028A	10/18/2011 21:45	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/25/2011 23:16	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112920028A	10/21/2011 18:40	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112920027A	10/21/2011 04:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112920027A	10/20/2011 12:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112920028A	10/20/2011 12:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900028A	10/18/2011 17:00	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP09-SA7-QC-101311 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA7-QC-101311

LLI Sample # SW 6437201
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:40

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6804 SDG#: DE268-04FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011 03:00	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011 20:09	John P Hook	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011 03:00	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011 03:00	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011 03:00	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011 03:00	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011 03:00	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011 03:00	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011 10:49	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011 10:49	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011 03:00	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011 03:00	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011 03:00	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011 03:00	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011 07:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011 07:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011 07:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011 07:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 07:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 07:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 07:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 07:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 07:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 07:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 07:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 07:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 07:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 07:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 07:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 07:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 09:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11298495201A	10/25/2011 18:21	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11298495201A	10/25/2011 18:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201A	10/20/2011 14:27	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11292243201A	10/20/2011 16:52	Elyse P Brunstetter	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: DUP09-SA7-QC-101311 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA7-QC-101311

LLI Sample # SW 6437201
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:40

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6804 SDG#: DE268-04FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201B	10/21/2011 08:15	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11298495201A	10/25/2011 01:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201A	10/20/2011 06:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201B	10/20/2011 15:35	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402B	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA7-SB-101311 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101311

LLI Sample # WW 6437202
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:30

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6805 SDG#: DE268-05EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l	ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	4.61	0.486	0.972		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 1.33 ng/l. The blank value was not subtracted from the analytical result. Sufficient sample was unavailable to repeat the analysis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11290WAA026	11/01/2011 17:22	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11290WAA026	10/17/2011 13:55	Wanda F Oswald	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-101311 Water
SSFL Area IV Collocated Soil Sampling
TB-101311

LLI Sample # WW 6437203
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 08:00

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6807 SDG#: DE268-06TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l	ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	1.23	0.501	1.00		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 1.33 ng/l. The blank value was not subtracted from the analytical result. Sufficient sample was unavailable to repeat the analysis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11290WAA026	11/01/2011 17:41	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11290WAA026	10/17/2011 13:55	Wanda F Oswald	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-101311 Sand
SSFL Area IV Collocated Soil Sampling
TB-101311

LLI Sample # SW 6437204
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 08:00

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6808 SDG#: DE268-07TB

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	16.6	U	16.6	33.2		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11291SLG026	11/02/2011 01:17	Matthew S Woods	1
11630	NDMA Soil Microwave	SW-846 3546	1	11291SLG026	10/19/2011 06:50	Katheryne V Sponheimer	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11291162401B	10/18/2011 21:20	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-101311 Water
SSFL Area IV Collocated Soil Sampling
TB-101311

LLI Sample # WW 6437205
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 08:00

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6809 SDG#: DE268-08TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11290B20A	10/18/2011 00:42	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11290B20A	10/18/2011 00:42	Marie D John	1

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Lancaster Laboratories

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Analysis Report

Sample Description: EB-SA7-SB-101311 Water
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101311

LLI Sample # WW 6437206
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:00

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6810 SDG#: DE268-09EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l		ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	4.50		0.524	1.05		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 1.33 ng/l. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and N-Nitrosodimethylamine was again detected in the re-analysis of the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	19	U	19	57		1
04678	Benzoic acid	65-85-0	6	U	6	14		1
04678	Benzyl alcohol	100-51-6	5	U	5	14		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	2-butoxy-Ethanol	111-76-2	48	U	48	48		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	14		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	29		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	14		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1

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Sample Description: EB-SA7-SB-101311 Water
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101311

LLI Sample # WW 6437206
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:00

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6810 SDG#: DE268-09EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	29		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	14		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	2-phenoxy-Ethanol	122-99-6	48	U	48	48		1
04678	Tetralin	119-64-2	5	U	5	5		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.0098	U	0.0098	0.049		1
10137	Acenaphthylene	208-96-8	0.0098	U	0.0098	0.049		1
10137	Anthracene	120-12-7	0.0098	U	0.0098	0.049		1
10137	Benzo(a)anthracene	56-55-3	0.0098	U	0.0098	0.049		1
10137	Benzo(a)pyrene	50-32-8	0.0098	U	0.0098	0.049		1
10137	Benzo(b)fluoranthene	205-99-2	0.0098	U	0.0098	0.049		1
10137	Benzo(g,h,i)perylene	191-24-2	0.0098	U	0.0098	0.049		1
10137	Benzo(k)fluoranthene	207-08-9	0.0098	U	0.0098	0.049		1
10137	Butylbenzylphthalate	85-68-7	0.049	U	0.049	0.98		1
10137	Di-n-butylphthalate	84-74-2	0.19	J	0.049	0.98		1
10137	Chrysene	218-01-9	0.0098	U	0.0098	0.049		1
10137	Dibenz(a,h)anthracene	53-70-3	0.0098	U	0.0098	0.049		1
10137	Diethylphthalate	84-66-2	0.11	J	0.049	0.98		1
10137	Dimethylphthalate	131-11-3	0.049	U	0.049	0.98		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.049	U	0.049	0.98		1
10137	Fluoranthene	206-44-0	0.0098	U	0.0098	0.049		1
10137	Fluorene	86-73-7	0.0098	U	0.0098	0.049		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.0098	U	0.0098	0.049		1
10137	1-Methylnaphthalene	90-12-0	0.0098	U	0.0098	0.049		1
10137	2-Methylnaphthalene	91-57-6	0.0098	U	0.0098	0.049		1
10137	Naphthalene	91-20-3	0.060		0.029	0.049		1
10137	N-Nitrosodimethylamine	62-75-9	0.0098	U	0.0098	0.049		1
10137	Di-n-octylphthalate	117-84-0	0.049	U	0.049	0.98		1
10137	Phenanthrene	85-01-8	0.029	U	0.029	0.049		1
10137	Pyrene	129-00-0	0.0098	U	0.0098	0.049		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	

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Sample Description: EB-SA7-SB-101311 Water
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101311

LLI Sample # WW 6437206
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:00

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6810 SDG#: DE268-09EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/l		ug/l	ug/l	ug/l	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	1.7		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
HPLC Organics	**SW-846 8315A**		ug/l		ug/l	ug/l	ug/l	
04144	20b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.50		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.50		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.50		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.50		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.50		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.50		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.50		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.50		1

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Sample Description: EB-SA7-SB-101311 Water
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101311

LLI Sample # WW 6437206
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:00

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6810 SDG#: DE268-09EB*

CAT No.	Analysis Name		CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs		**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	PCB-1254		11097-69-1	0.10	U	0.10	0.50		1
10227	PCB-1260		11096-82-5	0.15	U	0.15	0.50		1
10227	PCB-1262		37324-23-5	0.20	U	0.20	0.50		1
10227	PCB-1268		11100-14-4	0.16	U	0.16	0.50		1
GC Miscellaneous		**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol		64-17-5	200	U	200	1,000		1
06624	Isopropanol		67-63-0	200	U	200	1,000		1
06624	Methanol		67-56-1	200	U	200	1,000		1
GC Miscellaneous		**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol		111-46-6	20	U	20	200		1
08278	Ethylene glycol		107-21-1	20	U	20	200		1
08278	Propylene glycol		57-55-6	20	U	20	200		1
GC Petroleum Hydrocarbons		**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl		92-06-8	0.081	U	0.081	0.25		1
10319	o-Terphenyl		84-15-1	0.081	U	0.081	0.25		1
10319	p-Terphenyl		92-94-4	0.081	U	0.081	0.25		1
GC Petroleum Hydrocarbons		**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)		n.a.	0.10	U	0.10	0.61		1
10365	EFH (C15-C20)		n.a.	0.10	U	0.10	0.61		1
10365	EFH (C21-C30)		n.a.	0.10	U	0.10	0.61		1
10365	EFH (C30 - C40)		n.a.	0.10	U	0.10	0.61		1
10365	EFH (C8-C11)		n.a.	0.10	U	0.10	0.61		1
Metals		**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum		7429-90-5	0.0801	U	0.0801	0.200		1
08014	Boron		7440-42-8	0.0068	J	0.0022	0.0500		1
01750	Calcium		7440-70-2	0.0705	U	0.0705	0.200		1
01754	Iron		7439-89-6	0.0141	U	0.0141	0.200		1
01756	Lithium		7439-93-2	0.0076	U	0.0076	0.0200		1
01757	Magnesium		7439-95-4	0.0067	U	0.0067	0.100		1
07058	Manganese		7439-96-5	0.00044	U	0.00044	0.0050		1
10143	Phosphorus		7723-14-0	0.0047	U	0.0047	0.100		1
01762	Potassium		7440-09-7	0.0874	U	0.0874	0.500		1
01767	Sodium		7440-23-5	0.0647	U	0.0647	1.00		1
08068	Strontium		7440-24-6	0.00051	J	0.00022	0.0050		1
07069	Tin		7440-31-5	0.0043	U	0.0043	0.0200		1
07070	Titanium		7440-32-6	0.00046	U	0.00046	0.0100		1
10144	Zirconium		7440-67-7	0.0042	U	0.0042	0.0500		1
		SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	

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Lancaster Laboratories

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Analysis Report

Sample Description: EB-SA7-SB-101311 Water
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101311

LLI Sample # WW 6437206
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:00

Submitted: 10/14/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6810 SDG#: DE268-09EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00042 U	0.00042	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00069 U	0.00069	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000089 J	0.000080	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00027 U	0.00027	0.0020		1
06042	Silver	7440-22-4	0.000098 U	0.000098	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00018 U	0.00018	0.00050		1
06049	Zinc	7440-66-6	0.0056 J	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000026 U	0.000026	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	16b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	17b pH by 9040B	n.a.	5.5	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **EB-SA7-SB-101311 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101311

LLI Sample # WW 6437206
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:00

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E6810 SDG#: DE268-09EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11290WAA026	11/01/2011 18:00	Matthew S Woods	1
04678	5b Semivolatiles by 8270C	SW-846 8270C	1	11290WAB026	10/18/2011 08:08	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11290WAJ026	10/21/2011 12:26	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	11290WAB026	10/17/2011 17:30	Nicholas W Shroyer	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11290WAJ026	10/18/2011 12:00	Olivia I Santiago	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11290WAA026	10/17/2011 13:55	Wanda F Oswald	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11290B20A	10/18/2011 01:04	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11290B20A	10/18/2011 01:04	Marie D John	1
10131	15b Energetics by 8330A	SW-846 8330A	1	112900016A	10/20/2011 08:09	James H Place	1
04144	20b Formaldehyde 8315A	SW-846 8315A	1	112880004A	10/17/2011 14:57	James H Place	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	112900011A	10/20/2011 15:10	Jessica L Miller	1
11117	PCB Waters Extraction	SW-846 3510C	1	112900011A	10/18/2011 02:30	Sherry L Morrow	1
01013	Formaldehyde Extraction	SW-846 8315A	1	112880004A	10/16/2011 08:30	Olivia Arosemena	1
11122	Energetics Extraction	SW-846 8330	1	112900016A	10/18/2011 16:45	Kelli M Barto	1
06624	18b Alcohols by 8015B	SW-846 8015B	1	112870020A	10/14/2011 21:07	Elizabeth J Marin	1
08278	19b Glycols by 8015B	SW-846 8015B modified	1	112910030A	10/18/2011 21:45	Tyler O Griffin	1
10319	22b Terphenyls by 8015B	SW-846 8015B	1	112880013A	10/21/2011 13:30	Robert Brown	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112900022A	10/20/2011 19:15	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	112900022A	10/18/2011 08:45	Catherine R Wiker	1
10304	Terphenyls water prep	SW-846 3510C	1	112880013A	10/17/2011 10:00	Catherine R Wiker	1
01743	Aluminum	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
08068	Strontium	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
07070	Titanium	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
10144	Zirconium	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	112906050003A	10/20/2011 04:35	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	112906050003A	10/20/2011 04:35	Choon Y Tian	1
06026	Barium	SW-846 6020	1	112906050003D	10/20/2011 04:35	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	112906050003A	10/20/2011 04:35	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	112906050003A	10/20/2011 04:35	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	112906050003A	10/20/2011 04:35	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	112906050003A	10/20/2011 04:35	Choon Y Tian	1
06033	Copper	SW-846 6020	1	112906050003A	10/20/2011 04:35	Choon Y Tian	1
06035	Lead	SW-846 6020	1	112906050003A	10/20/2011 04:35	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	112906050003C	10/20/2011 04:35	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	112906050003A	10/20/2011 04:35	Choon Y Tian	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB-SA7-SB-101311 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101311

LLI Sample # WW 6437206
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:00

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6810 SDG#: DE268-09EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06041	Selenium	SW-846 6020	1	112906050003B	10/20/2011 04:35	Choon Y Tian	1
06042	Silver	SW-846 6020	1	112906050003A	10/20/2011 04:35	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	112906050003A	10/20/2011 04:35	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	112906050003A	10/20/2011 04:35	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	112906050003A	10/20/2011 04:35	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	112915713004	10/19/2011 09:12	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	112901848006	10/18/2011 12:00	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	112906050003	10/18/2011 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	112915713004	10/18/2011 14:32	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11287196902B	10/14/2011 22:24	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11287196902B	10/14/2011 22:24	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	2	11288281101A	10/18/2011 16:56	Elyse P Brunstetter	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11287281401A	10/14/2011 11:59	Elyse P Brunstetter	1
08255	16b Cyanide by 9012B	SW-846 9012B	1	11294117101B	10/23/2011 11:06	Joseph E McKenzie	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11294117101B	10/21/2011 15:55	Carolyn M Mastropietro	1
00200	17b pH by 9040B	SW-846 9040B	1	11287020001A	10/14/2011 21:00	Luz M Groff	1

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11290SLF026	Sample number(s): 6437193-6437197,6437201									
Acenaphthene	17	U	17.	170	ug/kg	95		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	102		75-122		
Aniline	170 U		170.	500	ug/kg	84		20-115		
Anthracene	17	U	17.	170	ug/kg	98		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	49		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	103		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	102		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	103		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	98		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	98		67-125		
Benzoic acid	170 U		170.	500	ug/kg	93		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	100		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	103		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	95		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	96		79-112		
Carbazole	17	U	17.	170	ug/kg	94		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	106		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	57		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	105		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	101		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	100		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	74		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	101		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	100		74-115		
Chrysene	17	U	17.	170	ug/kg	98		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	105		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	95		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	87		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	56		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	104		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	96		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	106		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	116		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	98		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	83		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	63		18-133		

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	104		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	103		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	106		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	99		75-117		
Fluoranthene	17	U	17.	170	ug/kg	101		78-116		
Fluorene	17	U	17.	170	ug/kg	98		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	102		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	98		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	102		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	89		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	103		64-119		
Isophorone	17	U	17.	170	ug/kg	108		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	94		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	96		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	103		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	102		66-117		
Naphthalene	17	U	17.	170	ug/kg	95		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	102		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	96		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	73		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	107		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	103		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	87		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	98		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	97		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	102		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	95		51-117		
Phenanthrene	17	U	17.	170	ug/kg	94		77-113		
Phenol	17	U	17.	170	ug/kg	106		58-112		
Pyrene	17	U	17.	170	ug/kg	96		75-115		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	96		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	104		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	105		78-111		
Batch number: 11290WAA026	Sample number(s): 6437202-6437203,6437206									
N-Nitrosodimethylamine	1.33		0.500	1.00	ng/l	101	107	70-130	6	30
Batch number: 11290WAB026	Sample number(s): 6437206									
Aniline	1	U	1.	5	ug/l	77	83	38-116	8	30
Benzidine	20	U	20.	60	ug/l	62	62	34-117	0	30
Benzoic acid	6	U	6.	15	ug/l	24	21	10-69	11	30
Benzyl alcohol	5	U	5.	15	ug/l	79	91	66-97	14	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	101	103	75-115	2	30
2-butoxy-Ethanol	50	U	50.	50	ug/l					
Carbazole	1	U	1.	5	ug/l	99	103	75-120	4	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	103	109	70-123	6	30
4-Chloroaniline	1	U	1.	5	ug/l	67	70	24-128	5	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	104	109	74-124	5	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	101	108	77-108	7	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	98	106	62-127	8	30
2-Chloronaphthalene	2	U	2.	5	ug/l	73	81	54-132	11	30
2-Chlorophenol	1	U	1.	5	ug/l	94	100	71-114	7	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	101	106	77-114	5	30
Dibenzofuran	1	U	1.	5	ug/l	96	101	75-117	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	87	97	55-118	10	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	88	97	61-111	9	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	88	96	53-119	9	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	70	72	37-117	2	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	102	109	77-117	7	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	102	107	72-110	4	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	108	113	70-130	5	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	98	102	65-126	4	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	93	99	52-131	6	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	108	113	76-119	5	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	104	111	76-118	6	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	100	103	68-127	4	30
Hexachlorobenzene	1	U	1.	5	ug/l	105	107	75-119	2	30
Hexachlorobutadiene	1	U	1.	5	ug/l	96	104	57-124	8	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	84	90	36-118	6	30
Hexachloroethane	1	U	1.	5	ug/l	86	95	52-113	10	30
Isophorone	1	U	1.	5	ug/l	107	113	74-117	6	30
2-Methylphenol	1	U	1.	5	ug/l	86	94	58-110	9	30
4-Methylphenol	2	U	2.	5	ug/l	77	85	49-108	10	30
2-Nitroaniline	1	U	1.	5	ug/l	104	111	75-120	7	30
3-Nitroaniline	1	U	1.	5	ug/l	99	104	74-113	5	30
4-Nitroaniline	1	U	1.	5	ug/l	84	89	59-100	5	30
Nitrobenzene	1	U	1.	5	ug/l	108	114*	75-109	5	30
2-Nitrophenol	1	U	1.	5	ug/l	106	111	76-118	4	30
4-Nitrophenol	10	U	10.	30	ug/l	40	46	16-78	14	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	100	108	69-110	8	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	94	97	67-136	3	30
Pentachlorophenol	3	U	3.	15	ug/l	107	112*	53-110	5	30
Phenol	1	U	1.	5	ug/l	38	49	21-67	25	30
2-phenoxy-Ethanol	50	U	50.	50	ug/l					
Tetralin	5	U	5.	5	ug/l					
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	96	103	71-112	7	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	103	109*	79-107	6	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	103	110	76-120	7	30
Batch number: 11290WAJ026	Sample number(s): 6437206									
Acenaphthene	0.010	U	0.010	0.050	ug/l	98	97	74-109	2	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	97	95	70-110	2	30
Anthracene	0.010	U	0.010	0.050	ug/l	99	100	66-111	1	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	101	102	72-114	0	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	95	95	60-127	0	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	98	99	58-151	1	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	108	108	57-131	0	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	99	99	59-130	0	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	77	78	40-138	1	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	84	85	56-148	1	30
Chrysene	0.010	U	0.010	0.050	ug/l	105	105	76-116	0	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	109	110	55-134	0	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	91	92	37-148	1	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	86	86	40-119	0	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	102	102	57-154	0	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	104	106	75-116	2	30
Fluorene	0.010	U	0.010	0.050	ug/l	105	103	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	108	108	53-158	0	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	93	94	71-117	0	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	92	92	75-115	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Naphthalene	0.030	U	0.030	0.050	ug/l	95	95	72-109	0	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	70	65	36-89	8	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	87	87	57-145	1	30
Phenanthrene	0.030	U	0.030	0.050	ug/l	98	99	76-111	1	30
Pyrene	0.010	U	0.010	0.050	ug/l	92	91	69-118	0	30
Batch number: 11291SLG026	Sample number(s): 6437193-6437197,6437201,6437204									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	105		70-130		
Batch number: 11298SLA026	Sample number(s): 6437193-6437197,6437201									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	102		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	94		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	99		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	98		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	100		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	103		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	110		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	124		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	101		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	104		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	110		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	105		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	129		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	102		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	103		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	102		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	91		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	95		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	94		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	110		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	99		72-119		
Batch number: 11290B20A	Sample number(s): 6437205-6437206									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	91	75-135	10	30
Batch number: 11293A16A	Sample number(s): 6437193-6437197,6437201									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	76		67-119		
Batch number: 112880015A	Sample number(s): 6437193-6437197,6437199-6437201									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	109		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	106		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	87	90	54-134	4	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	86	90	54-134	4	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	110		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	101		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	106		80-120		
HMX	100 U		100.	300	ug/kg	93		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	106		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	90		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	101		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	108		73-127		

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4-Nitrotoluene	80	U	80.	120	ug/kg	101		80-120		
PETN	800 U		800.	2,400	ug/kg	104		80-120		
RDX	50	U	50.	120	ug/kg	102		75-131		
Tetryl	61	U	61.	120	ug/kg	96		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	104		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
Batch number: 112900016A	Sample number(s): 6437206									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	99	93	80-120	6	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	94	88	80-120	7	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	80	83	50-122	4	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	80	83	50-122	4	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	100	96	72-117	4	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	93	89	80-120	4	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	97	80-120	3	30
HMX	0.65	U	0.65	2.0	ug/l	87	82	65-125	6	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	92	88	75-121	4	30
Nitroglycerin	5.2	U	5.2	15	ug/l	92	88	80-120	5	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	93	88	74-120	6	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	98	94	69-107	4	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	93	88	80-120	6	30
PETN	6.0	U	6.0	18	ug/l	96	96	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	88	82	70-125	7	30
Tetryl	0.40	U	0.40	0.60	ug/l	92	86	31-148	7	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	88	82	53-129	7	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	98	93	76-109	5	30
Batch number: 112880004A	Sample number(s): 6437206									
20b Formaldehyde 8315A	10	U	10.	50	ug/l	96	104	69-130	8	30
Batch number: 112910003A	Sample number(s): 6437193-6437197,6437199-6437201									
20a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	91		80-126		
Batch number: 112900011A	Sample number(s): 6437206									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	76	74	35-84	3	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	84	90	51-128	7	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	94	102	56-135	8	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 112910025A	Sample number(s): 6437193-6437197,6437199-6437201									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	69	66	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	67*		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					

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PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	85		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112870020A	Sample number(s): 6437206									
Ethanol	200 U		200.	1,000	ug/l	96		78-116		
Isopropanol	200 U		200.	1,000	ug/l	96		75-125		
Methanol	200 U		200.	1,000	ug/l	96		76-122		
Batch number: 112900028A	Sample number(s): 6437193-6437197,6437199-6437201									
Ethanol	100 U		100.	500	ug/kg	89		71-129		
Isopropanol	100 U		100.	500	ug/kg	86		75-125		
Methanol	100 U		100.	500	ug/kg	90		68-129		
Batch number: 112910030A	Sample number(s): 6437206									
Diethylene glycol	20	U	20.	200	mg/l	120		67-126		
Ethylene glycol	20	U	20.	200	mg/l	137*		78-136		
Propylene glycol	20	U	20.	200	mg/l	140*		65-132		
Batch number: 112980042A	Sample number(s): 6437193-6437197,6437201									
Diethylene glycol	5.0	U	5.0	10	mg/kg	100		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	106		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	99		67-131		
Batch number: 112880013A	Sample number(s): 6437206									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	98	102	61-108	4	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	102	104	75-125	2	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	98	102	63-110	4	20
Batch number: 112900022A	Sample number(s): 6437206									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	88	86	63-121	2	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	93	95	72-124	1	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	92	73	64-123	23	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	73	80	73-124	9	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	76	74	43-107	3	30
Batch number: 112920027A	Sample number(s): 6437193-6437197,6437199-6437201									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	94		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	96		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	97		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	85		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	83		49-107		
Batch number: 112920028A	Sample number(s): 6437193-6437197,6437199-6437201									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	100		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	105		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		69-109		
Batch number: 112901026001A	Sample number(s): 6437193-6437198,6437201									
Antimony	0.0740	U	0.0740	0.200	mg/kg	134		40-227		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	101		83-111		

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Beryllium	0.0160 U	0.0160	0.100	mg/kg	102		84-112		
Cadmium	0.0440 U	0.0440	0.100	mg/kg	105		83-111		
Chromium	0.120 U	0.120	0.400	mg/kg	111		77-123		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	108		85-114		
Copper	0.0800 U	0.0800	0.400	mg/kg	104		81-110		
Lead	0.0102 U	0.0102	0.200	mg/kg	104		84-112		
Nickel	0.100 U	0.100	0.400	mg/kg	104		81-110		
Silver	0.0142 U	0.0142	0.100	mg/kg	102		83-112		
Thallium	0.0300 U	0.0300	0.100	mg/kg	103		82-112		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	103		76-110		
Zinc	0.560 U	0.560	3.00	mg/kg	101		82-110		
Batch number: 112901026001B	Sample number(s): 6437193-6437198,6437201								
Selenium	0.0580 U	0.0580	0.400	mg/kg	102		79-110		
Batch number: 112901026001C	Sample number(s): 6437193-6437198,6437201								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	105		80-110		
Batch number: 112901026001D	Sample number(s): 6437193-6437198,6437201								
Barium	0.106 U	0.106	0.400	mg/kg	102		83-110		
Batch number: 112901848006	Sample number(s): 6437206								
Aluminum	0.0801 U	0.0801	0.200	mg/l	102	102	90-112	0	20
Boron	0.0046 J	0.0022	0.0500	mg/l	92	96	89-110	4	20
Calcium	0.0705 U	0.0705	0.200	mg/l	101	100	90-110	1	20
Iron	0.0141 U	0.0141	0.200	mg/l	102	101	90-112	1	20
Lithium	0.0076 U	0.0076	0.0200	mg/l	96	97	90-110	2	20
Magnesium	0.0067 U	0.0067	0.100	mg/l	100	98	90-110	1	20
Manganese	0.00044 U	0.00044	0.0050	mg/l	102	101	90-110	1	20
Phosphorus	0.0047 U	0.0047	0.100	mg/l	101	100	90-110	1	20
Potassium	0.0874 U	0.0874	0.500	mg/l	96	93	85-115	3	20
Sodium	0.0647 U	0.0647	1.00	mg/l	96	95	87-114	0	20
Strontium	0.00022 U	0.00022	0.0050	mg/l	99	99	90-110	0	20
Tin	0.0043 U	0.0043	0.0200	mg/l	102	102	90-110	0	20
Titanium	0.00046 U	0.00046	0.0100	mg/l	102	102	90-113	0	20
Zirconium	0.0093 J	0.0042	0.0500	mg/l	101	103	90-110	3	20
Batch number: 112905708002	Sample number(s): 6437193-6437198,6437201								
Aluminum	6.05 U	6.05	20.0	mg/kg	99		40-127		
Boron	0.360 U	0.360	5.00	mg/kg	103		83-110		
Calcium	6.41 J	2.50	20.0	mg/kg	106		81-110		
Iron	2.61 U	2.61	20.0	mg/kg	101		47-129		
Lithium	0.62 U	0.62	2.0	mg/kg	102		80-120		
Magnesium	0.440 U	0.440	10.0	mg/kg	102		63-116		
Manganese	0.0360 U	0.0360	0.500	mg/kg	104		85-116		
Phosphorus	1.73 J	0.350	10.0	mg/kg	107		80-120		
Strontium	0.0510 J	0.0250	0.500	mg/kg	107		84-110		
Tin	1.44 J	0.320	10.0	mg/kg	104		86-120		
Titanium	0.0710 U	0.0710	1.00	mg/kg	93		80-120		
Zirconium	0.460 U	0.460	5.00	mg/kg	104		80-120		
Batch number: 112905711002	Sample number(s): 6437193-6437198,6437201								
Mercury	0.0070 U	0.0070	0.100	mg/kg	105		83-119		
Batch number: 112906050003A	Sample number(s): 6437206								
Antimony	0.00042 U	0.00042	0.0010	mg/l	110	106	87-110	4	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	108	101	86-111	7	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	103	102	90-113	1	20

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Cadmium	0.00020 U	0.00020	0.00050	mg/l	109	102	90-114	7	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	99	102	90-118	2	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	101	102	87-113	1	20
Copper	0.00038 U	0.00038	0.0020	mg/l	102	103	90-113	1	20
Lead	0.000080 U	0.00008 0	0.0010	mg/l	100	101	90-115	1	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	99	104	90-113	5	20
Silver	0.000098 U	0.00009 8	0.00050	mg/l	101	102	90-115	2	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	94	98	89-116	4	20
Vanadium	0.00018 U	0.00018	0.00050	mg/l	99	99	89-116	0	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	102	101	90-116	1	20
Batch number: 112906050003B	Sample number(s): 6437206								
Selenium	0.00027 U	0.00027	0.0020	mg/l	107	102	85-114	4	20
Batch number: 112906050003C	Sample number(s): 6437206								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	98	99	89-115	1	20
Batch number: 112906050003D	Sample number(s): 6437206								
Barium	0.00069 U	0.00069	0.0020	mg/l	99	98	88-113	1	20
Batch number: 112915713004	Sample number(s): 6437206								
Mercury	0.000026 U	0.00002 6	0.00020	mg/l	101	104	80-120	3	20
Batch number: 112985708002	Sample number(s): 6437193-6437198,6437201								
Potassium	11.3 U	11.3	50.0	mg/kg	100		71-110		
Sodium	5.95 U	5.95	100	mg/kg	101		76-110		
Batch number: 11287196902B	Sample number(s): 6437206								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	96	96	90-110	0	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	98	97	90-110	1	20
Batch number: 11287281401A	Sample number(s): 6437206								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	109	101	90-110	7	20
Batch number: 11288281101A	Sample number(s): 6437206								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	98	103	85-115	5	20
Batch number: 11291243201A	Sample number(s): 6437193-6437194								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	81		80-120		
Batch number: 11292243201A	Sample number(s): 6437195-6437196,6437198,6437201								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	81		80-120		
Batch number: 11293102201A	Sample number(s): 6437193-6437194								
16a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	85		80-120		
Batch number: 11293102201B	Sample number(s): 6437195-6437196,6437198,6437201								
16a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	85		80-120		
Batch number: 11293621201A	Sample number(s): 6437193-6437196,6437198,6437201								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	108		85-115		
Batch number: 11294117101B	Sample number(s): 6437206								
16b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	91	90	90-110	1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11298495201A	Sample number(s): 6437193-6437196,6437198,6437201									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	102		90-110		
Batch number: 11287020001A	Sample number(s): 6437206									
17b pH by 9040B						100	100	90-110	0	3
Batch number: 11299039402B	Sample number(s): 6437193-6437195,6437198,6437201									
17a pH by 9045C						100		95-105		
Batch number: 11291162401B	Sample number(s): 6437204									
Moisture Content by 160.3						100		80-120		
Batch number: 11298162401B	Sample number(s): 6437193-6437199,6437201									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11290SLF026	Sample number(s): 6437193-6437197,6437201 UNSPK: 6437195								
Acenaphthene	101	103	75-115	2	30				
Acenaphthylene	107	110	81-110	2	30				
Aniline	88	84	18-116	4	30				
Anthracene	101	103	75-115	1	30				
Benzidine	47	41	35-141	15	30				
Benzo(a)anthracene	99	100	65-122	1	30				
Benzo(a)pyrene	104	105	57-126	1	30				
Benzo(b)fluoranthene	112	111	59-125	1	30				
Benzo(g,h,i)perylene	106	105	59-127	1	30				
Benzo(k)fluoranthene	94	95	56-132	1	30				
Benzoic acid	64	39	10-173	49*	30				
Benzyl alcohol	104	105	67-115	1	30				
4-Bromophenyl-phenylether	106	110	67-129	3	30				
Butylbenzylphthalate	100	100	73-134	0	30				
Di-n-butylphthalate	98	99	67-123	1	30				
Carbazole	97	98	64-120	1	30				
4-Chloro-3-methylphenol	107	103	62-122	4	30				
4-Chloroaniline	70	70	13-107	0	30				
bis(2-Chloroethoxy)methane	108*	109*	75-104	0	30				
bis(2-Chloroethyl)ether	106	106	60-116	0	30				
bis(2-Chloroisopropyl)ether	105	105	55-142	0	30				
2-Chloronaphthalene	79	79	50-141	0	30				
2-Chlorophenol	103	105	73-121	1	30				
4-Chlorophenyl-phenylether	104	107	80-109	3	30				
Chrysene	97	98	62-128	1	30				
Dibenz(a,h)anthracene	111	111	65-125	1	30				
Dibenzofuran	99	101	71-112	1	30				
1,2-Dichlorobenzene	89	88	66-108	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,3-Dichlorobenzene	88	85	63-109	3	30				
1,4-Dichlorobenzene	88	87	58-108	2	30				
3,3'-Dichlorobenzidine	75	72	28-109	5	30				
2,4-Dichlorophenol	106	106	66-123	0	30				
Diethylphthalate	97	98	66-118	1	30				
2,4-Dimethylphenol	107	107	68-118	0	30				
3,5-Dimethylphenol	0*	0*	71-127	0	30				
Dimethylphthalate	100	102	64-118	2	30				
4,6-Dinitro-2-methylphenol	35	21	11-126	49*	30				
2,4-Dinitrophenol	31	32	20-143	1	30				
2,4-Dinitrotoluene	99	99	56-129	0	30				
2,6-Dinitrotoluene	102	106	69-123	3	30				
1,2-Diphenylhydrazine	112	115	71-129	3	30				
bis(2-Ethylhexyl)phthalate	104	104	63-122	0	30				
Fluoranthene	102	103	73-112	0	30				
Fluorene	101	102	63-121	1	30				
Hexachlorobenzene	107	109	77-114	2	30				
Hexachlorobutadiene	101	100	62-120	1	30				
Hexachlorocyclopentadiene	50	68	10-153	30	30				
Hexachloroethane	88	87	57-109	1	30				
Indeno(1,2,3-cd)pyrene	108	108	61-126	0	30				
Isophorone	109*	110*	73-102	1	30				
1-Methylnaphthalene	95	95	64-122	1	30				
2-Methylnaphthalene	99	98	76-114	2	30				
2-Methylphenol	105	106	75-111	1	30				
4-Methylphenol	105	105	59-123	0	30				
Naphthalene	99	98	72-116	1	30				
2-Nitroaniline	109	111	67-125	1	30				
3-Nitroaniline	99	98	59-122	1	30				
4-Nitroaniline	81	80	41-109	1	30				
Nitrobenzene	111	111	57-125	0	30				
2-Nitrophenol	105	102	56-127	3	30				
4-Nitrophenol	84	80	37-129	5	30				
N-Nitroso-di-n-propylamine	102	104	60-116	1	30				
N-Nitrosodimethylamine	110	114	47-116	4	30				
N-Nitrosodiphenylamine	103	105	71-122	2	30				
Di-n-octylphthalate	114	113	56-126	0	30				
Pentachlorophenol	78	58	28-127	31*	30				
Phenanthrene	97	98	65-125	1	30				
Phenol	103	105	58-126	2	30				
Pyrene	98	100	74-126	2	30				
1,2,4-Trichlorobenzene	100	99	72-115	1	30				
2,4,5-Trichlorophenol	105	106	58-129	0	30				
2,4,6-Trichlorophenol	109	108	56-134	2	30				
Batch number: 11291SLG026	Sample number(s): 6437193-6437197,6437201,6437204 UNSPK: 6437195								
N-Nitrosodimethylamine	97	95	70-130	2	30				
Batch number: 11298SLA026	Sample number(s): 6437193-6437197,6437201 UNSPK: 6437195								
Acenaphthene	93	100	63-105	7	30				
Acenaphthylene	90	97	67-114	7	30				
Anthracene	94	102	73-115	8	30				
Benzo(a)anthracene	95	101	59-128	6	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(a)pyrene	93	99	58-142	6	30				
Benzo(b)fluoranthene	98	105	54-163	7	30				
Benzo(g,h,i)perylene	78	85	33-141	9	30				
Benzo(k)fluoranthene	97	103	57-153	5	30				
Butylbenzylphthalate	107	120	57-173	11	30				
Di-n-butylphthalate	112	159*	65-148	34*	30				
Chrysene	94	101	67-123	7	30				
Dibenz(a,h)anthracene	85	94	22-133	10	30				
Diethylphthalate	102	126	70-136	21	30				
Dimethylphthalate	100	107	74-118	7	30				
Bis(2-Ethylhexyl)phthalate	119	100	39-167	13	30				
Fluoranthene	97	104	51-149	7	30				
Fluorene	97	104	66-122	7	30				
Indeno(1,2,3-cd)pyrene	84	92	21-143	9	30				
1-Methylnaphthalene	87	94	72-123	8	30				
2-Methylnaphthalene	85	92	64-103	7	30				
Naphthalene	90	95	61-102	5	30				
N-Nitrosodimethylamine	88	94	48-113	7	30				
Di-n-octylphthalate	139	113	40-192	21	30				
Phenanthrene	90	98	62-122	8	30				
Pyrene	94	100	51-131	6	30				
Batch number: 11293A16A	Sample number(s): 6437193-6437197,6437201 UNSPK: 6437195								
9a TPH by EPA 8015B Gas C5-C12	77	76	39-118	9	30				
Batch number: 112880015A	Sample number(s): 6437193-6437197,6437199-6437201 UNSPK: 6437195								
4-Amino-2,6-Dinitrotoluene	107	110	80-127	3	50				
2-Amino-4,6-Dinitrotoluene	104	107	80-137	2	50				
1,3-Dinitrobenzene	108	110	38-166	2	50				
2,4-Dinitrotoluene	98	102	80-131	3	50				
2,6-Dinitrotoluene	104	108	80-127	3	50				
HMX	92	93	63-128	1	50				
Nitrobenzene	102	105	80-125	4	50				
Nitroglycerin	99	99	80-120	0	50				
2-Nitrotoluene	99	103	80-122	4	50				
3-Nitrotoluene	105	109	72-119	3	50				
4-Nitrotoluene	99	102	80-125	3	50				
PETN	106	108	80-121	2	50				
RDX	98	99	75-129	1	50				
Tetryl	89	86	55-174	4	50				
1,3,5-Trinitrobenzene	99	101	82-126	2	50				
2,4,6-Trinitrotoluene	104	107	82-130	3	50				
Batch number: 112910003A	Sample number(s): 6437193-6437197,6437199-6437201 UNSPK: 6437195								
20a Formaldehyde 8315A	98	104	80-120	6	50				
Batch number: 112910025A	Sample number(s): 6437193-6437197,6437199-6437201 UNSPK: 6437195								
PCB-1016	65	65	29-146	0	50				
PCB-1260	79	84	39-149	7	50				
Batch number: 112870020A	Sample number(s): 6437206 UNSPK: P434238								
Ethanol	94	98	62-145	4	20				
Isopropanol	100	100	73-131	0	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Methanol	80	96	52-159	16	20				
Batch number: 112900028A	Sample number(s): 6437193-6437197,6437199-6437201 UNSPK: 6437195								
Ethanol	75	73	48-130	2	20				
Isopropanol	72	71	12-149	1	20				
Methanol	75	72	43-138	3	20				
Batch number: 112910030A	Sample number(s): 6437206 UNSPK: P435702								
Diethylene glycol	120	125	83-130	4	20				
Ethylene glycol	137*	137*	89-125	0	20				
Propylene glycol	135*	135*	91-128	0	20				
Batch number: 112980042A	Sample number(s): 6437193-6437197,6437201 UNSPK: 6437195								
Diethylene glycol	47*	48*	59-109	3	20				
Ethylene glycol	75	75	63-107	1	20				
Propylene glycol	77	78	63-107	0	20				
Batch number: 112920027A	Sample number(s): 6437193-6437197,6437199-6437201 UNSPK: 6437195								
EFH (C12-C14)	82	89	49-123	8	20				
EFH (C15-C20)	81	98	49-123	13	20				
EFH (C21-C30)	102	117	49-123	7	20				
EFH (C30 - C40)	110	138*	49-123	8	20				
EFH (C8-C11)	0*	5*	49-123	10	20				
Batch number: 112920028A	Sample number(s): 6437193-6437197,6437199-6437201 UNSPK: 6437195								
m-Terphenyl	97	98	75-125	2	20				
o-Terphenyl	102	103	75-125	1	20				
p-Terphenyl	95	97	75-125	2	20				
Batch number: 112901026001A	Sample number(s): 6437193-6437198,6437201 UNSPK: 6437195 BKG: 6437195								
Antimony	39*	43*	75-125	8	20	0.135 J	0.126 J	7 (1)	20
Arsenic	101	108	75-125	3	20	3.78	3.79	0	20
Beryllium	91	102	75-125	8	20	0.484	0.538	11 (1)	20
Cadmium	111	108	75-125	2	20	0.0714 J	0.0880 J	21* (1)	20
Chromium	95	120	75-125	9	20	17.3	20.5	17	20
Cobalt	105	108	75-125	3	20	5.76	6.25	8	20
Copper	107	116	75-125	5	20	8.35	10.0	18	20
Lead	119	146*	75-125	10	20	4.54	5.21	14	20
Nickel	112	117	75-125	3	20	11.5	13.8	18	20
Silver	103	110	75-125	7	20	0.0337 J	0.0284 J	17 (1)	20
Thallium	104	122	75-125	11	20	0.244	0.284	15 (1)	20
Vanadium	99	137*	75-125	8	20	34.2	40.9	18	20
Zinc	111 (2)	145 (2)	75-125	5	20	55.0	64.0	15	20
Batch number: 112901026001B	Sample number(s): 6437193-6437198,6437201 UNSPK: 6437195 BKG: 6437195								
Selenium	103	118	75-125	13	20	0.162 J	0.153 J	6 (1)	20
Batch number: 112901026001C	Sample number(s): 6437193-6437198,6437201 UNSPK: 6437195 BKG: 6437195								
Molybdenum	104	111	75-125	7	20	0.266	0.289	8 (1)	20
Batch number: 112901026001D	Sample number(s): 6437193-6437198,6437201 UNSPK: 6437195 BKG: 6437195								
Barium	138 (2)	141 (2)	75-125	0	20	85.0	93.7	10	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112905708002	Sample number(s): 6437193-6437198,6437201 UNSPK: 6437195 BKG: 6437195								
Aluminum	2054 (2)	1557 (2)	75-125	6	20	12,500	12,700	2	20
Boron	103	102	84-115	0	20	1.03 J	0.806 J	25* (1)	20
Calcium	156 (2)	118 (2)	75-125	4	20	3,410	3,450	1	20
Iron	2305 (2)	15740 (2)	75-125	45*	20	20,200	20,700	2	20
Lithium	101	98	82-114	2	20	27.6	28.3	3	20
Magnesium	398 (2)	211 (2)	75-125	5	20	6,060	6,060	0	20
Manganese	45 (2)	74 (2)	75-125	4	20	299	276	8	20
Phosphorus	86 (2)	91 (2)	75-125	1	20	435	405	7	20
Strontium	100	98	75-115	1	20	12.6	12.1	4	20
Tin	90	89	80-110	0	20	2.61 J	2.45 J	6 (1)	20
Titanium	307 (2)	281 (2)	75-125	2	20	1,210	1,180	2	20
Zirconium	97	97	81-110	1	20	0.897 J	1.34 J	40* (1)	20
Batch number: 112905711002	Sample number(s): 6437193-6437198,6437201 UNSPK: 6437195 BKG: 6437195								
Mercury	101	99	65-135	4	20	0.0068 J	0.0069 U	200* (1)	20
Batch number: 112985708002	Sample number(s): 6437193-6437198,6437201 UNSPK: 6437195 BKG: 6437195								
Potassium	128*	119	75-125	3	20	2,360	2,410	2	20
Sodium	99	97	75-125	4	20	118	115	3 (1)	20
Batch number: 11291243201A	Sample number(s): 6437193-6437194 UNSPK: P435690 BKG: P435690								
3a Cr VI by EPA 7199	91		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11292243201A	Sample number(s): 6437195-6437196,6437198,6437201 UNSPK: 6437195 BKG: 6437195								
3a Cr VI by EPA 7199	89		75-125			0.20 U	1.3	200* (1)	20
Batch number: 11293102201A	Sample number(s): 6437193-6437194 UNSPK: P435690 BKG: P435690								
16a Cyanide by 9012B	88		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11293102201B	Sample number(s): 6437195-6437196,6437198,6437201 UNSPK: 6437195 BKG: 6437195								
16a Cyanide by 9012B	99		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11293621201A	Sample number(s): 6437193-6437196,6437198,6437201 UNSPK: 6437195 BKG: 6437195								
7a Perchlorate EPA 314.0	113		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11298495201A	Sample number(s): 6437193-6437196,6437198,6437201 UNSPK: 6437195 BKG: 6437195								
11a Anions by 300.0 - Fluoride	70*		80-120			2.2	2.6	17 (1)	20
11a Anions by 300.0 - Nitrate	88		80-120			3.8	3.7	1 (1)	20
Batch number: 11299039402B	Sample number(s): 6437193-6437195,6437198,6437201 BKG: 6437195								
17a pH by 9045C						7.86	7.90	1	3
Batch number: 11291162401B	Sample number(s): 6437204 BKG: P431141								
Moisture Content by 160.3						4.4	4.3	2	20
Batch number: 11298162401B	Sample number(s): 6437193-6437199,6437201 BKG: 6437195								
28a Moisture Content by 160.3						11.8	11.7	1	20
Moisture Content by 160.3						11.8	11.7	1	20
Moisture Content by 160.3						11.8	11.7	1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11290SLF026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6437193	96	96	89	97	89	87
6437194	98	99	85	97	90	86
6437195	99	101	88	100	92	89
6437196	101	104	97	103	94	88
6437197	101	104	92	103	95	87
6437201	100	101	80	98	88	86
Blank	96	97	99	98	88	87
LCS	98	98	103	99	89	85
MS	101	104	97	103	94	88
MSD	101	104	92	103	95	87
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 21b. NDMA in Water
Batch number: 11290WAA026

	N-Nitrosodimethylamine-d6
6437202	115
6437203	113
6437206	117
Blank	102
LCS	101
LCSD	98
Limits:	50-150

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11290WAB026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6437206	59	36	113	104	93	91
Blank	55	33	111	100	91	91
LCS	56	34	106	97	86	85
LCSD	65	40	113	106	93	88
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11290WAJ026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6437206	100	87	83
Blank	95	87	84
LCS	109	97	86
LCSD	110	94	85

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Surrogate Quality Control

Limits: 40-130 45-130 45-135

Analysis Name: 21a NDMA by 1625C
Batch number: 11291SLG026

	N-Nitrosodimethylamine-d6
6437193	94
6437194	99
6437195	88
6437196	94
6437197	77
6437201	77
6437204	83
Blank	124
LCS	120
MS	94
MSD	77

Limits: 50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11298SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6437193	101	93	83
6437194	91	59	79
6437195	92	85	92
6437196	94	86	91
6437197	100	91	97
6437201	97	88	81
Blank	105	101	110
LCS	100	91	97
MS	94	86	91
MSD	100	91	97

Limits: 40-130 45-130 45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11290B20A

	Trifluorotoluene-F
6437205	86
6437206	87
Blank	84
LCS	109
LCSD	113

Limits: 63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11293A16A

	Trifluorotoluene-F
6437193	79
6437194	73
6437195	84

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Surrogate Quality Control

6437196	90
6437197	76
6437201	87
Blank	92
LCS	93
MS	90
MSD	76
Limits:	61-122

Analysis Name: 20b Formaldehyde 8315A
Batch number: 112880004A

	Butyraldehyde
6437206	99
Blank	86
LCS	92
LCSD	96
Limits:	45-145

Analysis Name: 15a Energetics by 8330A
Batch number: 112880015A

	2-Nitro-m-xylene
6437193	118
6437194	117
6437195	116
6437196	108
6437197	113
6437199	118
6437200	117
6437201	115
Blank	125
LCS	114
LCSD	113
MS	108
MSD	113
Limits:	80-146

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 112900011A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6437206	97	109
Blank	94	78
LCS	90	90
LCSD	91	112
Limits:	30-150	45-120

Analysis Name: 15b Energetics by 8330A
Batch number: 112900016A

	2-Nitro-m-xylene
6437206	92

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Surrogate Quality Control

Blank	98
LCS	97
LCSD	90
Limits:	50-134

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112910003A

	Butyraldehyde
6437193	80
6437194	95
6437195	91
6437196	80
6437197	84
6437199	77
6437200	90
6437201	73
Blank	87
LCS	86
MS	80
MSD	84
Limits:	64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112910025A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6437193	74	92
6437194	72	85
6437195	62	88
6437196	74	84
6437197	61	89
6437199	72	87
6437200	77	92
6437201	71	81
Blank	82	93
LCS	73	89
LCSD	76	99
MS	74	84
MSD	61	89
Limits:	53-139	53-142

Analysis Name: 18b Alcohols by 8015B
Batch number: 112870020A

	Acetone
6437206	91
Blank	89
LCS	89
MS	99
MSD	102
Limits:	54-147

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Surrogate Quality Control

Analysis Name: 22b Terphenyls by 8015B
Batch number: 112880013A

	n-Triacontane-d62
6437206	77
Blank	73
LCS	67
LCSD	69
Limits:	17-138

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 112900022A

	Chlorobenzene	Orthoterphenyl
6437206	82	83
Blank	79	79
LCS	86	91
LCSD	84	92
Limits:	28-152	52-131

Analysis Name: 18a Alcohols by 8015B
Batch number: 112900028A

	Acetone
6437193	72
6437194	67
6437195	67
6437196	69
6437197	66
6437199	65
6437200	82
6437201	62
Blank	83
LCS	82
MS	69
MSD	66
Limits:	42-138

Analysis Name: 19b Glycols by 8015B
Batch number: 112910030A

	Tetramethylene glycol
6437206	108
Blank	126
LCS	134
MS	124
MSD	129
Limits:	29-157

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112920027A

	Chlorobenzene	Orthoterphenyl

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Surrogate Quality Control

6437193	52	81
6437194	52	79
6437195	65	85
6437196	77	86
6437197	80	90
6437199	73	86
6437200	87	90
6437201	75	86
Blank	82	88
LCS	88	92
MS	77	86
MSD	80	90
Limits:	37-125	47-145

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112920028A

	n-Triacontane-d62
6437193	76
6437194	75
6437195	79
6437196	79
6437197	79
6437199	78
6437200	76
6437201	76
Blank	80
LCS	79
MS	79
MSD	79
Limits:	19-152

Analysis Name: 19a Glycols by 8015B
Batch number: 112980042A

	Tetramethylene glycol
6437193	90
6437194	88
6437195	85
6437196	88
6437197	87
6437201	87
Blank	100
LCS	99
MS	88
MSD	87
Limits:	29-137

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap#1271284 Sample# G437193-06

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dewonal EPA 8270	Other Instructions and Notes
SL-005-SA3-SB-4.5	10.13.11	1204	SOIL	NONE	2-Encores										X										
SL-005-SA3-SB-4.0-5.0	10.13.11	1209	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	
SL-005-SA3-SB-8.0	10.13.11	1127	SOIL	NONE	2-Encores										X										
SL-005-SA3-SB-7.5-8.5	10.13.11	1134	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	
SL-089-SA7-SB-4.0MS	10.13.11	1230	SOIL	NONE	6-Encores										X										MS/MSD
SL-089-SA7-SB-3.5-4.5MS	10.13.11	1235	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	MS/MSD
DUP09-SA7-QC-101311	10.13.11	1240	SOIL	NONE	2-Encores										X										
DUP09-SA7-QC-101311	10.13.11	1240	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	
EB-SA7-SB-101311	10.13.11	1430	WATER	NONE	1 1L Amber														X						HGL ASTM II WATER-HA crew
SL-096-SA7-SB-2.5	10.12.11	1145	SOIL	NONE	2-Encores										X										sampled 10.12.11
TB-101311	10.13.11	0800	WATER	NONE	1-1 L Amber														X						
TB-101311	10.13.11	0800	SOIL	NONE	1-4 oz Jar														X						
TB-101311	10.13.11	0800	WATER	NONE	2-40 mL Vials										X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/13/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8767 9857 5154,5132,5143	Suzette Lehman 10/14/11 0915

SL-096-SA7-SB-2.5 encores were logged in as additional volume for LLI#6435696(DE267) per PH. NM 10/18/11

acct#13013 Gp#1271284 sample# G437193-06

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8016B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonol EPA 8270	Other Instructions and Notes
EB-SA7-SB-101311	10.13.11	1400	WATER	NONE	10-1 liter ambers			X	X	X						X			X	X		X			X	EB collected for HA crew
EB-SA7-SB-101311	10.13.11	1400	WATER	NONE	1-500 mL poly		X				X	X	X													
EB-SA7-SB-101311	10.13.11	1400	WATER	HNO3	1-500 mL poly	X																				
EB-SA7-SB-101311	10.13.11	1400	WATER	NaOH	1-500 mL poly																X					
EB-SA7-SB-101311	10.13.11	1400	WATER	NONE	1-250 mL glass													X								
EB-SA7-SB-101311	10.13.11	1400	WATER	HCL	11-40 mL vials										X									X		
EB-SA7-SB-101311	10.13.11	1400	WATER	NONE	4-40 mL vials												X						X			

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/13/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8767 9857 5154,5132,5143	Suzette Luhman 10/14/11 0915

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Thursday, October 13, 2011 2:42 PM
To: Nicole Maljovec
Subject: RE: SSFL COC 10/12/11- SL-096-SA7-SB-2.0-3.0 Soil empty encores

Yes, I found them! I need to really check those encores, you would think I would be able to feel the difference between an emtpy pouch and a full one!

I'll send them today!

Pamela Hartman
CDM
523 W 6th St #400
Los Angeles, CA 90014
Cell 714-900-0916
Direct 818-466-8007

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Thursday, October 13, 2011 11:35 AM
To: Hartman, Pamela
Subject: FW: SSFL COC 10/12/11- SL-096-SA7-SB-2.0-3.0 Soil empty encores

Hi Pam,
The encores for SL-096-SA7-SB-2.5 were empty. Do you think the full encores are still in CA? if so, as long as we get them tomorrow, we'll still be able to prep within the holding time.

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Wednesday, October 12, 2011 7:29 PM
To: Bloisa, Peggy; Burgesser, Todd; Cortes, Vidal A.; 'Laura Rainey'; SA Env Entry; TWallbom@dtsc.ca.gov; Nicole Maljovec; Zakowski, Cherie
Subject: SSFL COC 10/12/11

Subsurface sampling continued with two crews in SA3 and SA7. It was a hot one out there today!

Please see attached COC.

Thanks,

Pam

Pamela Hartman
CDM
523 W 6th St #400
Los Angeles, CA 90014
Cell 714-900-0916
Direct 818-466-8007

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 31, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/14/2011
Group Number: 1271287
SDG: DX150
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-005-SA3-SB-4.0-5.0 Soil	6437218
SL-005-SA3-SB-7.5-8.5 Soil	6437219
SL-089-SA7-SB-3.5-4.5 Soil	6437220
SL-089-SA7-SB-3.5-4.5MS Soil	6437221
SL-089-SA7-SB-3.5-4.5MSD Soil	6437222
DUP09-SA7-QC-101311 Soil	6437223
EB-SA7-SB-101311 Water	6437224

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-005-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-4.0-5.0

LLI Sample # SW 6437218
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:09

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5001 SDG#: DX150-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-4.0-5.0

LLI Sample # SW 6437218
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:09

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5001 SDG#: DX150-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0380 U	0.0380	1.06	1
11031	12378-PeCDD	40321-76-4	0.0330 JBQ	0.0324	5.30	1
11031	123478-HxCDD	39227-28-6	0.0237 U	0.0237	5.30	1
11031	123678-HxCDD	57653-85-7	0.0467 JBQ	0.0239	5.30	1
11031	123789-HxCDD	19408-74-3	0.0620 JBQ	0.0241	5.30	1
11031	1234678-HpCDD	35822-46-9	0.646 JB	0.0317	5.30	1
11031	OCDD	3268-87-9	4.27 JB	0.0337	10.6	1
11031	2378-TCDF	51207-31-9	0.0292 U	0.0292	1.06	1
11031	12378-PeCDF	57117-41-6	0.0490 JBQ	0.0169	5.30	1
11031	23478-PeCDF	57117-31-4	0.0572 JBQ	0.0164	5.30	1
11031	123478-HxCDF	70648-26-9	0.0405 JQ	0.0171	5.30	1
11031	123678-HxCDF	57117-44-9	0.0484 JBQ	0.0152	5.30	1
11031	123789-HxCDF	72918-21-9	0.0179 U	0.0179	5.30	1
11031	234678-HxCDF	60851-34-5	0.0386 JBQ	0.0149	5.30	1
11031	1234678-HpCDF	67562-39-4	0.207 JB	0.0149	5.30	1
11031	1234789-HpCDF	55673-89-7	0.0417 JB	0.0234	5.30	1
11031	OCDF	39001-02-0	0.392 JBQ	0.0494	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	60	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-4.0-5.0

LLI Sample # SW 6437218
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:09

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5001 SDG#: DX150-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-4.0-5.0

LLI Sample # SW 6437218
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:09

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5001 SDG#: DX150-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11300001	10/29/2011 13:26	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11300001	10/27/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA3-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-7.5-8.5

LLI Sample # SW 6437219
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 11:34

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5002 SDG#: DX150-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA3-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-7.5-8.5

LLI Sample # SW 6437219
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 11:34

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5002 SDG#: DX150-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0358 U	0.0358	1.16	1
11031	12378-PeCDD	40321-76-4	0.0472 JBQ	0.0304	5.80	1
11031	123478-HxCDD	39227-28-6	0.0240 JBQ	0.0197	5.80	1
11031	123678-HxCDD	57653-85-7	0.0412 JB	0.0200	5.80	1
11031	123789-HxCDD	19408-74-3	0.0215 JBQ	0.0205	5.80	1
11031	1234678-HpCDD	35822-46-9	0.266 JBQ	0.0244	5.80	1
11031	OCDD	3268-87-9	0.630 JB	0.0266	11.6	1
11031	2378-TCDF	51207-31-9	0.0285 JQ	0.0261	1.16	1
11031	12378-PeCDF	57117-41-6	0.0147 U	0.0147	5.80	1
11031	23478-PeCDF	57117-31-4	0.0682 JBQ	0.0149	5.80	1
11031	123478-HxCDF	70648-26-9	0.0469 J	0.0153	5.80	1
11031	123678-HxCDF	57117-44-9	0.0195 JBQ	0.0120	5.80	1
11031	123789-HxCDF	72918-21-9	0.0322 JBQ	0.0163	5.80	1
11031	234678-HxCDF	60851-34-5	0.0460 JBQ	0.0132	5.80	1
11031	1234678-HpCDF	67562-39-4	0.115 JBQ	0.0113	5.80	1
11031	1234789-HpCDF	55673-89-7	0.0359 JBQ	0.0198	5.80	1
11031	OCDF	39001-02-0	0.159 JBQ	0.0472	11.6	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	55	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA3-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-7.5-8.5

LLI Sample # SW 6437219
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 11:34

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5002 SDG#: DX150-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA3-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-7.5-8.5

LLI Sample # SW 6437219
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 11:34

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5002 SDG#: DX150-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11300001	10/29/2011 14:23	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11300001	10/27/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437220
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5003 SDG#: DX150-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-089-SA7-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437220
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5003 SDG#: DX150-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0332 U	0.0332	1.12	1
11031	12378-PeCDD	40321-76-4	0.0421 JBQ	0.0282	5.60	1
11031	123478-HxCDD	39227-28-6	0.0699 JB	0.0303	5.60	1
11031	123678-HxCDD	57653-85-7	0.253 JB	0.0300	5.60	1
11031	123789-HxCDD	19408-74-3	0.119 JBQ	0.0283	5.60	1
11031	1234678-HpCDD	35822-46-9	4.64 JB	0.0430	5.60	1
11031	OCDD	3268-87-9	44.4 B	0.0426	11.2	1
11031	2378-TCDF	51207-31-9	0.0780 JQ	0.0325	1.12	1
11031	12378-PeCDF	57117-41-6	0.0524 JBQ	0.0194	5.60	1
11031	23478-PeCDF	57117-31-4	0.196 JBQ	0.0212	5.60	1
11031	123478-HxCDF	70648-26-9	0.328 J	0.0264	5.60	1
11031	123678-HxCDF	57117-44-9	0.0847 JB	0.0212	5.60	1
11031	123789-HxCDF	72918-21-9	0.0800 JB	0.0294	5.60	1
11031	234678-HxCDF	60851-34-5	0.146 JBQ	0.0220	5.60	1
11031	1234678-HpCDF	67562-39-4	0.936 JB	0.0189	5.60	1
11031	1234789-HpCDF	55673-89-7	0.0695 JBQ	0.0400	5.60	1
11031	OCDF	39001-02-0	2.37 JB	0.0520	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	49	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437220
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5003 SDG#: DX150-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437220
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5003 SDG#: DX150-03BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11300001	10/29/2011 15:19	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11300001	10/27/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437221
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5003 SDG#: DX150-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-089-SA7-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437221
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5003 SDG#: DX150-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.1		0.0413	1.13	1
11031	12378-PeCDD	40321-76-4	114	B	0.0536	5.64	1
11031	123478-HxCDD	39227-28-6	111	B	0.0465	5.64	1
11031	123678-HxCDD	57653-85-7	104	B	0.0498	5.64	1
11031	123789-HxCDD	19408-74-3	113	B	0.0507	5.64	1
11031	1234678-HpCDD	35822-46-9	113	B	0.0695	5.64	1
11031	OCDD	3268-87-9	257	B	0.0707	11.3	1
11031	2378-TCDF	51207-31-9	22.2		0.0491	1.13	1
11031	12378-PeCDF	57117-41-6	112	B	0.0320	5.64	1
11031	23478-PeCDF	57117-31-4	107	B	0.0328	5.64	1
11031	123478-HxCDF	70648-26-9	109		0.0593	5.64	1
11031	123678-HxCDF	57117-44-9	109	B	0.0535	5.64	1
11031	123789-HxCDF	72918-21-9	111	B	0.0698	5.64	1
11031	234678-HxCDF	60851-34-5	107	B	0.0546	5.64	1
11031	1234678-HpCDF	67562-39-4	101	B	0.0464	5.64	1
11031	1234789-HpCDF	55673-89-7	108	B	0.0759	5.64	1
11031	OCDF	39001-02-0	220	B	0.0825	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	68	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-089-SA7-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437221
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5003 SDG#: DX150-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437221
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5003 SDG#: DX150-03MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11300001	10/29/2011 16:16	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11300001	10/27/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437222
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5003 SDG#: DX150-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-089-SA7-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437222
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5003 SDG#: DX150-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.6		0.0478	1.09	1
11031	12378-PeCDD	40321-76-4	111	B	0.0447	5.44	1
11031	123478-HxCDD	39227-28-6	105	B	0.0562	5.44	1
11031	123678-HxCDD	57653-85-7	101	B	0.0582	5.44	1
11031	123789-HxCDD	19408-74-3	110	B	0.0568	5.44	1
11031	1234678-HpCDD	35822-46-9	111	B	0.0766	5.44	1
11031	OCDD	3268-87-9	251	B	0.0676	10.9	1
11031	2378-TCDF	51207-31-9	20.6		0.0490	1.09	1
11031	12378-PeCDF	57117-41-6	109	B	0.0336	5.44	1
11031	23478-PeCDF	57117-31-4	102	B	0.0327	5.44	1
11031	123478-HxCDF	70648-26-9	105		0.0710	5.44	1
11031	123678-HxCDF	57117-44-9	106	B	0.0628	5.44	1
11031	123789-HxCDF	72918-21-9	107	B	0.0774	5.44	1
11031	234678-HxCDF	60851-34-5	104	B	0.0622	5.44	1
11031	1234678-HpCDF	67562-39-4	97.6	B	0.0525	5.44	1
11031	1234789-HpCDF	55673-89-7	103	B	0.0947	5.44	1
11031	OCDF	39001-02-0	209	B	0.0802	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	52	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437222
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5003 SDG#: DX150-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437222
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5003 SDG#: DX150-03MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11300001	10/29/2011 17:12	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11300001	10/27/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

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Analysis Report

Sample Description: DUP09-SA7-QC-101311 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA7-QC-101311

LLI Sample # SW 6437223
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:40

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5004 SDG#: DX150-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP09-SA7-QC-101311 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA7-QC-101311

LLI Sample # SW 6437223
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:40

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5004 SDG#: DX150-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0366 J	0.0332	1.12	1
11031	12378-PeCDD	40321-76-4	0.0835 JBQ	0.0298	5.59	1
11031	123478-HxCDD	39227-28-6	0.0729 JBQ	0.0306	5.59	1
11031	123678-HxCDD	57653-85-7	0.188 JBQ	0.0309	5.59	1
11031	123789-HxCDD	19408-74-3	0.150 JBQ	0.0293	5.59	1
11031	1234678-HpCDD	35822-46-9	4.45 JB	0.0370	5.59	1
11031	OCDD	3268-87-9	39.5 B	0.0509	11.2	1
11031	2378-TCDF	51207-31-9	0.0570 JQ	0.0293	1.12	1
11031	12378-PeCDF	57117-41-6	0.0785 JBQ	0.0201	5.59	1
11031	23478-PeCDF	57117-31-4	0.128 JBQ	0.0202	5.59	1
11031	123478-HxCDF	70648-26-9	0.244 JQ	0.0247	5.59	1
11031	123678-HxCDF	57117-44-9	0.0971 JB	0.0226	5.59	1
11031	123789-HxCDF	72918-21-9	0.0436 JB	0.0268	5.59	1
11031	234678-HxCDF	60851-34-5	0.153 JBQ	0.0212	5.59	1
11031	1234678-HpCDF	67562-39-4	0.789 JB	0.0183	5.59	1
11031	1234789-HpCDF	55673-89-7	0.111 JB	0.0305	5.59	1
11031	OCDF	39001-02-0	2.24 JB	0.0450	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	57	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP09-SA7-QC-101311 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA7-QC-101311

LLI Sample # SW 6437223
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:40

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5004 SDG#: DX150-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP09-SA7-QC-101311 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA7-QC-101311

LLI Sample # SW 6437223
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:40

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5004 SDG#: DX150-04FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11300001	10/29/2011 18:09	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11300001	10/27/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: EB-SA7-SB-101311 Water
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101311

LLI Sample # WW 6437224
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:00

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5005 SDG#: DX150-05EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.335	U	0.335	2.00	1
10915	12378-PeCDD	40321-76-4	0.261	U	0.261	9.99	1
10915	123478-HxCDD	39227-28-6	0.227	U	0.227	9.99	1
10915	123678-HxCDD	57653-85-7	0.265	JQ	0.224	9.99	1
10915	123789-HxCDD	19408-74-3	0.225	U	0.225	9.99	1
10915	1234678-HpCDD	35822-46-9	3.09	JB	0.265	9.99	1
10915	OCDD	3268-87-9	6.33	JB	0.232	20.0	1
10915	2378-TCDF	51207-31-9	0.228	U	0.228	2.00	1
10915	12378-PeCDF	57117-41-6	0.147	U	0.147	9.99	1
10915	23478-PeCDF	57117-31-4	0.419	JBQ	0.128	9.99	1
10915	123478-HxCDF	70648-26-9	0.423	JB	0.143	9.99	1
10915	123678-HxCDF	57117-44-9	0.458	JBQ	0.145	9.99	1
10915	123789-HxCDF	72918-21-9	0.144	U	0.144	9.99	1
10915	234678-HxCDF	60851-34-5	0.416	JB	0.124	9.99	1
10915	1234678-HpCDF	67562-39-4	2.11	JB	0.110	9.99	1
10915	1234789-HpCDF	55673-89-7	0.292	JBQ	0.120	9.99	1
10915	OCDF	39001-02-0	1.70	JB	0.276	20.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA7-SB-101311 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101311

LLI Sample # WW 6437224
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:00

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5005 SDG#: DX150-05EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11292001	10/21/2011 22:11	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11292001	10/19/2011 06:40	Ginelle L Haines	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271287
Reported: 10/31/11 at 03:51 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11298162401B	Sample number(s): 6437218-6437223									
Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11292001	Sample number(s): 6437224									
2378-TCDD	0.360	U	0.360	2.00	pg/l	103		67-158		
12378-PeCDD	0.541	J	0.280	10.0	pg/l	100		70-142		
123478-HxCDD	0.226	U	0.226	10.0	pg/l	97		70-164		
123678-HxCDD	0.230	U	0.230	10.0	pg/l	94		76-134		
123789-HxCDD	0.623	J	0.222	10.0	pg/l	100		64-162		
1234678-HpCDD	2.75	J	0.205	10.0	pg/l	99		70-140		
OCDD	5.09	J	0.237	20.0	pg/l	98		78-144		
2378-TCDF	0.242	U	0.242	2.00	pg/l	90		75-158		
12378-PeCDF	0.414	J	0.162	10.0	pg/l	100		80-134		
23478-PeCDF	0.934	J	0.145	10.0	pg/l	90		68-160		
123478-HxCDF	0.536	J	0.145	10.0	pg/l	98		72-134		
123678-HxCDF	0.592	J	0.145	10.0	pg/l	97		84-130		
123789-HxCDF	0.484	J	0.164	10.0	pg/l	97		78-130		
234678-HxCDF	0.606	J	0.139	10.0	pg/l	94		70-156		
1234678-HpCDF	2.04	J	0.125	10.0	pg/l	90		82-122		
1234789-HpCDF	0.351	J	0.138	10.0	pg/l	96		78-138		
OCDF	1.52	J	0.243	20.0	pg/l	98		63-170		
Batch number: 11300001	Sample number(s): 6437218-6437223									
2378-TCDD	0.0422	U	0.0422	1.00	ng/kg	107		67-158		
12378-PeCDD	0.0804	J	0.0346	5.00	ng/kg	105		70-142		
123478-HxCDD	0.0345	J	0.0262	5.00	ng/kg	97		70-164		
123678-HxCDD	0.0438	J	0.0267	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0427	J	0.0259	5.00	ng/kg	101		64-162		
1234678-HpCDD	0.295	J	0.0295	5.00	ng/kg	97		70-140		
OCDD	0.493	J	0.0380	10.0	ng/kg	96		78-144		
2378-TCDF	0.0353	U	0.0353	1.00	ng/kg	103		75-158		
12378-PeCDF	0.0458	J	0.0185	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0744	J	0.0187	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0234	U	0.0234	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0512	J	0.0189	5.00	ng/kg	97		84-130		
123789-HxCDF	0.0857	J	0.0250	5.00	ng/kg	99		78-130		
234678-HxCDF	0.0555	J	0.0210	5.00	ng/kg	94		70-156		
1234678-HpCDF	0.128	J	0.0153	5.00	ng/kg	90		82-122		
1234789-HpCDF	0.0489	J	0.0291	5.00	ng/kg	96		78-138		
OCDF	0.188	J	0.0680	10.0	ng/kg	96		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271287
Reported: 10/31/11 at 03:51 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11298162401B	Sample number(s): 6437218-6437223					BKG: P437195			
Moisture Content by 160.3						11.8	11.7	1	20
Batch number: 11300001	Sample number(s): 6437218-6437223 UNSPK: 6437220								
2378-TCDD	103	109	67-158	2	25				
12378-PeCDD	101	102	70-142	3	25				
123478-HxCDD	99	96	70-164	6	25				
123678-HxCDD	92	93	76-134	3	25				
123789-HxCDD	101	101	64-162	3	25				
1234678-HpCDD	96	98	70-140	2	25				
OCDD	94	95	78-144	2	25				
2378-TCDF	98	94	75-158	8	25				
12378-PeCDF	99	100	80-134	2	25				
23478-PeCDF	95	94	68-160	5	25				
123478-HxCDF	97	96	72-134	4	25				
123678-HxCDF	96	97	84-130	3	25				
123789-HxCDF	99	99	78-130	4	25				
234678-HxCDF	95	96	70-156	3	25				
1234678-HpCDF	89	89	82-122	3	25				
1234789-HpCDF	95	94	78-138	5	25				
OCDF	96	95	63-170	5	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11292001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6437224	72	73	65	65	70	71
Blank	66	73	67	67	70	72
OPR	71	69	68	69	70	79
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6437224	68	73	73	71	72	73
Blank	75	82	89	71	73	75
OPR	74	76	77	69	72	75
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271287
Reported: 10/31/11 at 03:51 PM

Surrogate Quality Control

6437224	71	75	75	74	70
Blank	74	83	92	72	71
OPR	74	79	81	72	68
Limits:	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11300001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6437218	68	65	64	70	69	69
6437219	72	66	61	72	70	67
6437220	78	69	60	75	70	62
6437221	78	72	72	81	81	73
6437222	71	67	64	72	72	67
6437223	74	70	66	73	72	68
Blank	58	52	46	57	53	52
MS	78	72	72	81	81	73
MSD	71	67	64	72	72	67
OPR	63	57	56	65	59	59
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6437218	80	62	60	69	74	77
6437219	86	60	55	73	82	82
6437220	90	54	49	78	83	84
6437221	95	68	68	79	90	92
6437222	84	58	52	73	82	81
6437223	82	60	57	73	79	79
Blank	69	45	42	59	62	65
MS	95	68	68	79	90	92
MSD	84	58	52	73	82	81
OPR	80	53	51	65	72	72
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6437218	74	77	75	66	70
6437219	80	80	75	66	75
6437220	83	81	77	72	82
6437221	89	88	88	74	82
6437222	80	79	76	69	75
6437223	79	78	77	72	76
Blank	63	65	62	52	59
MS	89	88	88	74	82
MSD	80	79	76	69	75
OPR	71	74	70	56	65
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Qp# 1271257 Sample# 6437213-24

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	
SL-005-SA3-SB-4.5	10.13.11	1204	SOIL	NONE	2-Encores										X										
SL-005-SA3-SB-4.0-5.0	10.13.11	1209	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	
SL-005-SA3-SB-8.0	10.13.11	1127	SOIL	NONE	2-Encores										X										
SL-005-SA3-SB-7.5-8.5	10.13.11	1134	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	
SL-089-SA7-SB-4.0MS	10.13.11	1230	SOIL	NONE	6-Encores										X										MS/MSD
SL-089-SA7-SB-3.5-4.5MS	10.13.11	1235	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	MS/MSD
DUP09-SA7-QC-101311	10.13.11	1240	SOIL	NONE	2-Encores										X										
DUP09-SA7-QC-101311	10.13.11	1240	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	
EB-SA7-SB-101311	10.13.11	1430	WATER	NONE	[illegible]														X						HGL ASTM II WATER-HA crew
SL-096-SA7-SB-2.5	10.12.11	1145	SOIL	NONE	2-Encores										X										sampled 10.12.11
TB-101311	10.13.11	0800	WATER	NONE	1-1 L Amber														X						
TB-101311	10.13.11	0800	SOIL	NONE	1-4 oz Jar														X						
TB-101311	10.13.11	0800	WATER	NONE	2-40 mL Vials										X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/13/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8767 9857 5154,5132,5143	Suzette Lehman 10/14/11 0915

acct# 13013 Gp# 1271257 sample# 6437218-24

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetratin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS										SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alconols EPA 8015B	**Dowonal EPA 8270	
EB-SA7-SB-101311	10.13.11	1400	WATER	NONE	10-1 liter ambers			X	X	X						X			X	X		X			X	EB collected for HA crew
EB-SA7-SB-101311	10.13.11	1400	WATER	NONE	1-500 mL poly		X				X	X	X													
EB-SA7-SB-101311	10.13.11	1400	WATER	HNO3	1-500 mL poly	X																				
EB-SA7-SB-101311	10.13.11	1400	WATER	NaOH	1-500 mL poly																X					
EB-SA7-SB-101311	10.13.11	1400	WATER	NONE	1-250 mL glass													X								
EB-SA7-SB-101311	10.13.11	1400	WATER	HCL	11-40 mL vials										X									X		
EB-SA7-SB-101311	10.13.11	1400	WATER	NONE	4-40 mL vials												X						X			

Relinquished by: (*Signature*) — **Date/Time** 10/13/2011 / 1630 — **Received for Laboratory by: (*Signature*)** — **Laboratory:** Lancaster Laboratories, Inc.

Received by: (*Signature*) — **Date/Time** — **Airbill No.(s)** 8767 9857 5154,5132,5143

Suzette Lehman 10/14/11 0915

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 09, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/15/2011
Group Number: 1271484
SDG: DE269
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-006-SA3-SB-4.0-5.0 Soil	6438618
SL-006-SA3-SB-9.0-10.0 Soil	6438619
SL-036-SA5DS-SB-4.0-5.0 Soil	6438620
SL-036-SA5DS-SB-9.0-10.0 Soil	6438621
SL-037-SA5DS-SB-4.0-5.0 Soil	6438622
SL-037-SA5DS-SB-9.0-10.0 Soil	6438623
SL-038-SA5DS-SB-4.0-5.0 Soil	6438624
SL-038-SA5DS-SB-9.0-10.0 Soil	6438625
SL-164-SA7-SB-0.5-1.5 Soil	6438626
EB-SA3-SB-101411 Water	6438627
TB-101411 Water	6438628
TB-101411 Sand	6438629

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-006-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-4.0-5.0

LLI Sample # SW 6438618
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 15:29

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6901 SDG#: DE269-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-006-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-4.0-5.0

LLI Sample # SW 6438618
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 15:29

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6901 SDG#: DE269-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside of the method required holding time, and LCS/LCSD recoveries are within the QC

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-006-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-4.0-5.0

LLI Sample # SW 6438618
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 15:29

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6901 SDG#: DE269-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,500		6.48	21.4		1
07914	Boron	7440-42-8	0.385	U	0.385	5.35		1
01650	Calcium	7440-70-2	1,400		2.68	21.4		1
01654	Iron	7439-89-6	18,300		2.79	21.4		1
01656	Lithium	7439-93-2	21.2		0.66	2.1		1
01657	Magnesium	7439-95-4	3,340		0.471	10.7		1
06958	Manganese	7439-96-5	176		0.0385	0.535		1
10145	Phosphorus	7723-14-0	119		0.375	10.7		1
01662	Potassium	7440-09-7	2,230		12.0	53.0		1
01667	Sodium	7440-23-5	86.7	J	6.31	106		1
07968	Strontium	7440-24-6	20.1		0.0268	0.535		1
06969	Tin	7440-31-5	2.71	J	0.343	10.7		1
06970	Titanium	7440-32-6	1,080		0.0760	1.07		1
10146	Zirconium	7440-67-7	1.24	J	0.492	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0784	U	0.0784	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.53		0.0848	0.424		2
06126	Barium	7440-39-3	74.4		0.112	0.424		2
06127	Beryllium	7440-41-7	0.768		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.0492	J	0.0466	0.106		2
06131	Chromium	7440-47-3	12.6		0.127	0.424		2
06132	Cobalt	7440-48-4	5.35		0.0212	0.106		2
06133	Copper	7440-50-8	4.36		0.0848	0.424		2
06135	Lead	7439-92-1	5.91		0.0108	0.212		2
06138	Molybdenum	7439-98-7	0.821		0.0530	0.106		2
06139	Nickel	7440-02-0	7.96		0.106	0.424		2
06141	Selenium	7782-49-2	0.131	J	0.0615	0.424		2
06142	Silver	7440-22-4	0.0498	J	0.0151	0.106		2
06145	Thallium	7440-28-0	0.258		0.0318	0.106		2
06148	Vanadium	7440-62-2	29.0		0.0233	0.106		2
06149	Zinc	7440-66-6	50.0		0.594	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075	U	0.0075	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-006-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-4.0-5.0

LLI Sample # SW 6438618
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 15:29

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6901 SDG#: DE269-01

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.77	J	0.22	1.1		1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C		n.a.	7.03		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	9.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11291SLD026	10/21/2011	06:41	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11291SLE026	10/21/2011	12:59	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11291SLE026	10/18/2011	21:35	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11291SLD026	10/18/2011	21:35	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112910025A	10/21/2011	11:49	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112910025A	10/19/2011	12:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011	03:04	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011	03:04	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011	03:04	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011	03:04	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011	03:04	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011	03:04	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011	03:04	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011	03:04	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011	10:52	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011	10:52	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011	03:04	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011	03:04	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011	03:04	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011	03:04	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011	07:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011	07:54	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-006-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-4.0-5.0

LLI Sample # SW 6438618
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 15:29

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6901 SDG#: DE269-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011 07:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011 07:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 07:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 07:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 07:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 07:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 07:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 07:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 07:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 07:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 07:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 07:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 07:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 07:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 09:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201A	10/27/2011 12:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201B	10/20/2011 14:50	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11292243201A	10/20/2011 17:07	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201A	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201B	10/20/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402A	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-006-SA3-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-9.0-10.0

LLI Sample # SW 6438619
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:47

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6902 SDG#: DE269-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-006-SA3-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-9.0-10.0

LLI Sample # SW 6438619
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:47

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6902 SDG#: DE269-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	28		6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside of the method required holding time, and LCS/LCSD recoveries are within the QC

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-006-SA3-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-9.0-10.0

LLI Sample # SW 6438619
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:47

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6902 SDG#: DE269-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,500		6.72	22.2		1
07914	Boron	7440-42-8	0.400	U	0.400	5.55		1
01650	Calcium	7440-70-2	1,170		2.78	22.2		1
01654	Iron	7439-89-6	18,700		2.90	22.2		1
01656	Lithium	7439-93-2	18.9		0.69	2.2		1
01657	Magnesium	7439-95-4	3,550		0.489	11.1		1
06958	Manganese	7439-96-5	168		0.0400	0.555		1
10145	Phosphorus	7723-14-0	96.4		0.389	11.1		1
01662	Potassium	7440-09-7	1,560		12.4	55.0		1
01667	Sodium	7440-23-5	145		6.54	110		1
07968	Strontium	7440-24-6	16.4		0.0278	0.555		1
06969	Tin	7440-31-5	2.92	J	0.355	11.1		1
06970	Titanium	7440-32-6	1,080		0.0788	1.11		1
10146	Zirconium	7440-67-7	1.23	J	0.511	5.55		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.161	J	0.0830	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.31		0.0897	0.449		2
06126	Barium	7440-39-3	74.3		0.119	0.449		2
06127	Beryllium	7440-41-7	1.07		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.0493	U	0.0493	0.112		2
06131	Chromium	7440-47-3	15.3		0.135	0.449		2
06132	Cobalt	7440-48-4	5.76		0.0224	0.112		2
06133	Copper	7440-50-8	6.28		0.0897	0.449		2
06135	Lead	7439-92-1	7.77		0.0114	0.224		2
06138	Molybdenum	7439-98-7	0.773		0.0561	0.112		2
06139	Nickel	7440-02-0	7.43		0.112	0.449		2
06141	Selenium	7782-49-2	0.114	J	0.0650	0.449		2
06142	Silver	7440-22-4	0.0453	J	0.0159	0.112		2
06145	Thallium	7440-28-0	0.270		0.0336	0.112		2
06148	Vanadium	7440-62-2	38.3		0.0247	0.112		2
06149	Zinc	7440-66-6	59.2		0.628	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078	U	0.0078	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-006-SA3-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-9.0-10.0

LLI Sample # SW 6438619
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:47

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6902 SDG#: DE269-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.65	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11291SLD026	10/21/2011 07:06	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11291SLE026	10/21/2011 14:38	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11291SLE026	10/18/2011 21:35	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11291SLD026	10/18/2011 21:35	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112910025A	10/21/2011 12:08	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112910025A	10/19/2011 12:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011 03:09	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011 03:09	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011 03:09	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011 03:09	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011 03:09	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011 03:09	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011 03:09	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011 03:09	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011 10:56	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011 10:56	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011 03:09	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011 03:09	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011 03:09	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011 03:09	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011 07:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011 07:57	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-006-SA3-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-9.0-10.0

LLI Sample # SW 6438619
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:47

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6902 SDG#: DE269-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011 07:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011 07:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 07:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 07:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 07:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 07:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 07:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 07:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 07:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 07:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 07:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 07:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 07:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 07:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 09:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201A	10/27/2011 12:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201B	10/20/2011 15:59	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11292243201A	10/20/2011 17:28	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201A	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201B	10/20/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402A	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-036-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438620
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:38

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6903 SDG#: DE269-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438620
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:38

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6903 SDG#: DE269-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.3	J	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,200		6.73	22.2		1
07914	Boron	7440-42-8	0.400	U	0.400	5.56		1
01650	Calcium	7440-70-2	7,650		2.78	22.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438620
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:38

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6903 SDG#: DE269-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	33,700	5.81	44.5		2
01656	Lithium	7439-93-2	32.7	0.69	2.2		1
01657	Magnesium	7439-95-4	8,690	0.489	11.1		1
06958	Manganese	7439-96-5	352	0.0400	0.556		1
10145	Phosphorus	7723-14-0	635	0.389	11.1		1
01662	Potassium	7440-09-7	3,350	12.7	56.2		1
01667	Sodium	7440-23-5	166	6.68	112		1
07968	Strontium	7440-24-6	59.3	0.0278	0.556		1
06969	Tin	7440-31-5	2.64 J	0.356	11.1		1
06970	Titanium	7440-32-6	1,650	0.0790	1.11		1
10146	Zirconium	7440-67-7	8.51	0.512	5.56		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.276	0.0831	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.4	0.0898	0.449		2
06126	Barium	7440-39-3	112	0.119	0.449		2
06127	Beryllium	7440-41-7	1.04	0.0180	0.112		2
06128	Cadmium	7440-43-9	0.0551 J	0.0494	0.112		2
06131	Chromium	7440-47-3	28.3	0.135	0.449		2
06132	Cobalt	7440-48-4	13.0	0.0225	0.112		2
06133	Copper	7440-50-8	32.6	0.0898	0.449		2
06135	Lead	7439-92-1	17.3	0.0115	0.225		2
06138	Molybdenum	7439-98-7	0.376	0.0562	0.112		2
06139	Nickel	7440-02-0	20.8	0.112	0.449		2
06141	Selenium	7782-49-2	0.110 J	0.0651	0.449		2
06142	Silver	7440-22-4	0.0159 U	0.0159	0.112		2
06145	Thallium	7440-28-0	0.451	0.0337	0.112		2
06148	Vanadium	7440-62-2	74.7	0.0247	0.112		2
06149	Zinc	7440-66-6	101	0.629	3.37		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0194 J	0.0079	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-036-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438620
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:38

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6903 SDG#: DE269-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.39	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	12.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11291SLD026	10/21/2011	07:31	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11291SLE026	10/21/2011	15:11	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11291SLE026	10/18/2011	21:35	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11291SLD026	10/18/2011	21:35	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113010003A	11/02/2011	04:44	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	113010003A	10/28/2011	18:15	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011	03:13	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011	03:13	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011	03:13	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011	20:13	John P Hook	2
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011	03:13	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011	03:13	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011	03:13	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011	03:13	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011	11:00	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011	11:00	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011	03:13	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011	03:13	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011	03:13	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011	03:13	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011	08:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011	08:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011	08:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011	08:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011	08:00	Choon Y Tian	2

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Analysis Report

Sample Description: SL-036-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438620
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:38

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6903 SDG#: DE269-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 08:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 08:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 08:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 08:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 08:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 08:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 08:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 08:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 08:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 08:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 08:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 09:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201A	10/27/2011 12:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201B	10/20/2011 16:22	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11292243201A	10/20/2011 17:43	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201A	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201B	10/20/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402A	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-036-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438621
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:34

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6904 SDG#: DE269-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438621
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:34

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6904 SDG#: DE269-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside of the method required holding time, and surrogate recoveries are within the QC

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438621
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:34

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6904 SDG#: DE269-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	acceptance limits. Since the hold time had expired prior to the second extraction all results are reported from the original extract. Similar results were obtained in both extracts.							
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside of the method required holding time, and LCS/LCSD recoveries are within the QC acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both trials with the exception of:							
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,400		6.69	22.1		1
07914	Boron	7440-42-8	0.398	U	0.398	5.53		1
01650	Calcium	7440-70-2	18,600		2.77	22.1		1
01654	Iron	7439-89-6	32,600		5.78	44.3		2
01656	Lithium	7439-93-2	30.9		0.69	2.2		1
01657	Magnesium	7439-95-4	6,960		0.487	11.1		1
06958	Manganese	7439-96-5	366		0.0398	0.553		1
10145	Phosphorus	7723-14-0	192		0.387	11.1		1
01662	Potassium	7440-09-7	3,050		12.7	56.4		1
01667	Sodium	7440-23-5	130		6.71	113		1
07968	Strontium	7440-24-6	51.6		0.0277	0.553		1
06969	Tin	7440-31-5	2.81	J	0.354	11.1		1
06970	Titanium	7440-32-6	1,650		0.0786	1.11		1
10146	Zirconium	7440-67-7	5.63		0.509	5.53		1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.201	J	0.0835	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.22		0.0903	0.451		2
06126	Barium	7440-39-3	150		0.120	0.451		2
06127	Beryllium	7440-41-7	0.929		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.172		0.0496	0.113		2
06131	Chromium	7440-47-3	36.9		0.135	0.451		2
06132	Cobalt	7440-48-4	13.4		0.0226	0.113		2
06133	Copper	7440-50-8	16.7		0.0903	0.451		2
06135	Lead	7439-92-1	10.6		0.0115	0.226		2
06138	Molybdenum	7439-98-7	0.517		0.0564	0.113		2
06139	Nickel	7440-02-0	20.5		0.113	0.451		2
06141	Selenium	7782-49-2	0.175	J	0.0654	0.451		2
06142	Silver	7440-22-4	0.0257	J	0.0160	0.113		2
06145	Thallium	7440-28-0	0.398		0.0338	0.113		2
06148	Vanadium	7440-62-2	77.1		0.0248	0.113		2
06149	Zinc	7440-66-6	77.1		0.632	3.38		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438621
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:34

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6904 SDG#: DE269-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0077 U	0.0077	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.9	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.39	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	13.1	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11291SLD026	10/21/2011 07:56	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11291SLE026	10/21/2011 15:43	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11291SLE026	10/18/2011 21:35	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11291SLD026	10/18/2011 21:35	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112910025A	10/21/2011 12:46	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112910025A	10/19/2011 12:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011 03:17	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011 03:17	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011 03:17	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011 20:17	John P Hook	2
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011 03:17	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011 03:17	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-036-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438621
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:34

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6904 SDG#: DE269-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011 03:17	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011 03:17	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011 11:04	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011 11:04	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011 03:17	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011 03:17	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011 03:17	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011 03:17	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011 08:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011 08:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011 08:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011 08:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 08:03	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 08:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 08:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 08:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 08:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 08:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 08:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 08:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 08:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 08:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 08:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 08:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 10:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201A	10/27/2011 12:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201B	10/20/2011 16:45	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11292243201A	10/20/2011 17:57	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201A	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201B	10/20/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402A	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-037-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438622
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:47

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6905 SDG#: DE269-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-037-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438622
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:47

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6905 SDG#: DE269-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	36,300		6.89	22.8		1
07914	Boron	7440-42-8	5.93		0.410	5.70		1
01650	Calcium	7440-70-2	14,200		2.85	22.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-037-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438622
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:47

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6905 SDG#: DE269-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	35,200		5.95	45.6		2
01656	Lithium	7439-93-2	31.4		0.71	2.3		1
01657	Magnesium	7439-95-4	8,110		0.501	11.4		1
06958	Manganese	7439-96-5	468		0.0410	0.570		1
10145	Phosphorus	7723-14-0	152		0.399	11.4		1
01662	Potassium	7440-09-7	3,700		12.7	56.4		1
01667	Sodium	7440-23-5	166		6.71	113		1
07968	Strontium	7440-24-6	66.2		0.0285	0.570		1
06969	Tin	7440-31-5	2.87	J	0.365	11.4		1
06970	Titanium	7440-32-6	1,620		0.0809	1.14		1
10146	Zirconium	7440-67-7	4.87	J	0.524	5.70		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.308		0.0835	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.69		0.0903	0.451		2
06126	Barium	7440-39-3	179		0.120	0.451		2
06127	Beryllium	7440-41-7	1.01		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.155		0.0496	0.113		2
06131	Chromium	7440-47-3	38.9		0.135	0.451		2
06132	Cobalt	7440-48-4	12.8		0.0226	0.113		2
06133	Copper	7440-50-8	17.2		0.0903	0.451		2
06135	Lead	7439-92-1	11.3		0.0115	0.226		2
06138	Molybdenum	7439-98-7	0.524		0.0564	0.113		2
06139	Nickel	7440-02-0	23.4		0.113	0.451		2
06141	Selenium	7782-49-2	0.142	J	0.0654	0.451		2
06142	Silver	7440-22-4	0.0479	J	0.0160	0.113		2
06145	Thallium	7440-28-0	0.482		0.0338	0.113		2
06148	Vanadium	7440-62-2	77.7		0.0248	0.113		2
06149	Zinc	7440-66-6	84.3		0.632	3.38		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0079	U	0.0079	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.7		0.92	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31	J	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-037-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438622
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:47

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6905 SDG#: DE269-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.29	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11291SLD026	10/21/2011	08:21	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11291SLE026	10/22/2011	00:11	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11291SLE026	10/18/2011	21:35	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11291SLD026	10/18/2011	21:35	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113010003A	11/02/2011	05:02	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	113010003A	10/28/2011	18:15	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011	03:21	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011	20:29	John P Hook	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011	03:21	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011	20:33	John P Hook	2
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011	03:21	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011	03:21	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011	03:21	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011	03:21	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011	11:07	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011	11:07	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011	03:21	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011	03:21	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011	03:21	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011	03:21	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011	08:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011	08:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011	08:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011	08:06	Choon Y Tian	2

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Analysis Report

Sample Description: SL-037-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438622
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:47

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6905 SDG#: DE269-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 08:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 08:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 08:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 08:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 08:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 08:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 08:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 08:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 08:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 08:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 08:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 08:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 10:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201A	10/27/2011 13:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201B	10/20/2011 17:08	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11292243201A	10/20/2011 18:19	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201A	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201B	10/20/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402A	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-037-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438623
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:05

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6906 SDG#: DE269-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-037-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438623
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:05

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6906 SDG#: DE269-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	40,000		6.94	23.0		1
07914	Boron	7440-42-8	7.06		0.413	5.74		1
01650	Calcium	7440-70-2	8,540		2.87	23.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-037-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438623
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:05

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6906 SDG#: DE269-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	40,800		5.99	45.9		2
01656	Lithium	7439-93-2	37.5		0.71	2.3		1
01657	Magnesium	7439-95-4	10,200		0.505	11.5		1
06958	Manganese	7439-96-5	277		0.0413	0.574		1
10145	Phosphorus	7723-14-0	240		0.402	11.5		1
01662	Potassium	7440-09-7	4,230		13.0	57.4		1
01667	Sodium	7440-23-5	240		6.83	115		1
07968	Strontium	7440-24-6	65.8		0.0287	0.574		1
06969	Tin	7440-31-5	3.17	J	0.367	11.5		1
06970	Titanium	7440-32-6	1,570		0.0815	1.15		1
10146	Zirconium	7440-67-7	4.87	J	0.528	5.74		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.378		0.0858	0.232		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.96		0.0927	0.464		2
06126	Barium	7440-39-3	199		0.123	0.464		2
06127	Beryllium	7440-41-7	1.27		0.0185	0.116		2
06128	Cadmium	7440-43-9	0.0708	J	0.0510	0.116		2
06131	Chromium	7440-47-3	47.6		0.139	0.464		2
06132	Cobalt	7440-48-4	17.6		0.0232	0.116		2
06133	Copper	7440-50-8	25.8		0.0927	0.464		2
06135	Lead	7439-92-1	13.9		0.0118	0.232		2
06138	Molybdenum	7439-98-7	0.872		0.0579	0.116		2
06139	Nickel	7440-02-0	30.5		0.116	0.464		2
06141	Selenium	7782-49-2	0.172	J	0.0672	0.464		2
06142	Silver	7440-22-4	0.0232	J	0.0165	0.116		2
06145	Thallium	7440-28-0	0.594		0.0348	0.116		2
06148	Vanadium	7440-62-2	96.5		0.0255	0.116		2
06149	Zinc	7440-66-6	109		0.649	3.48		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0079	U	0.0079	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	11.8		0.96	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-037-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438623
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:05

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6906 SDG#: DE269-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.30	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11291SLD026	10/21/2011	08:47	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11291SLE026	10/22/2011	00:44	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11291SLE026	10/18/2011	21:35	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11291SLD026	10/18/2011	21:35	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113010003A	11/02/2011	05:21	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	113010003A	10/28/2011	18:15	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011	03:27	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011	20:37	John P Hook	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011	03:27	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011	20:42	John P Hook	2
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011	03:27	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011	03:27	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011	03:27	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011	03:27	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011	11:11	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011	11:11	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011	03:27	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011	03:27	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011	03:27	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011	03:27	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011	08:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011	08:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011	08:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011	08:09	Choon Y Tian	2

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Analysis Report

Sample Description: SL-037-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438623
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:05

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6906 SDG#: DE269-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 08:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 08:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 08:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 08:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 08:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 08:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 08:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 08:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 08:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 08:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 08:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 08:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 10:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201A	10/27/2011 13:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201B	10/20/2011 17:54	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11292243201A	10/20/2011 18:26	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201A	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201B	10/20/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402A	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-038-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438624
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:00

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6907 SDG#: DE269-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-038-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438624
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:00

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6907 SDG#: DE269-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	J	6.4	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,200		6.48	21.4		1
07914	Boron	7440-42-8	0.385	U	0.385	5.35		1
01650	Calcium	7440-70-2	34,600		2.68	21.4		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-038-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438624
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:00

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6907 SDG#: DE269-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	27,200		2.79	21.4		1
01656	Lithium	7439-93-2	28.9		0.66	2.1		1
01657	Magnesium	7439-95-4	6,980		0.471	10.7		1
06958	Manganese	7439-96-5	328		0.0385	0.535		1
10145	Phosphorus	7723-14-0	573		0.375	10.7		1
01662	Potassium	7440-09-7	3,760		12.2	54.0		1
01667	Sodium	7440-23-5	135		6.43	108		1
07968	Strontium	7440-24-6	60.3		0.0268	0.535		1
06969	Tin	7440-31-5	2.50	J	0.342	10.7		1
06970	Titanium	7440-32-6	1,300		0.0760	1.07		1
10146	Zirconium	7440-67-7	4.26	J	0.492	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.188	J	0.0808	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.74		0.0873	0.437		2
06126	Barium	7440-39-3	116		0.116	0.437		2
06127	Beryllium	7440-41-7	0.688		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.194		0.0480	0.109		2
06131	Chromium	7440-47-3	33.6		0.131	0.437		2
06132	Cobalt	7440-48-4	10.6		0.0218	0.109		2
06133	Copper	7440-50-8	13.1		0.0873	0.437		2
06135	Lead	7439-92-1	8.01		0.0111	0.218		2
06138	Molybdenum	7439-98-7	0.443		0.0546	0.109		2
06139	Nickel	7440-02-0	17.9		0.109	0.437		2
06141	Selenium	7782-49-2	0.199	J	0.0633	0.437		2
06142	Silver	7440-22-4	0.0220	J	0.0155	0.109		2
06145	Thallium	7440-28-0	0.305		0.0328	0.109		2
06148	Vanadium	7440-62-2	65.0		0.0240	0.109		2
06149	Zinc	7440-66-6	68.8		0.611	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	U	0.0074	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-038-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438624
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:00

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6907 SDG#: DE269-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.42	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11291SLD026	10/21/2011	09:12	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11291SLE026	10/22/2011	01:17	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11291SLE026	10/18/2011	21:35	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11291SLD026	10/18/2011	21:35	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113010003A	11/02/2011	05:40	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	113010003A	10/28/2011	18:15	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011	03:31	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011	03:31	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011	03:31	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011	03:31	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011	03:31	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011	03:31	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011	03:31	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011	03:31	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011	11:15	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011	11:15	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011	03:31	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011	03:31	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011	03:31	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011	03:31	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011	08:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011	08:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011	08:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011	08:18	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-038-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438624
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:00

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6907 SDG#: DE269-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 08:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 08:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 08:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 08:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 08:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 08:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 08:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 08:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 08:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 08:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 08:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 08:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 10:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201A	10/27/2011 14:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201B	10/20/2011 18:17	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11292243201A	10/20/2011 18:48	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201A	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201B	10/20/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402B	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-038-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438625
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 10:27

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6908 SDG#: DE269-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-038-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438625
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 10:27

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6908 SDG#: DE269-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.0	J	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,500		6.46	21.4		1
07914	Boron	7440-42-8	0.385	U	0.385	5.34		1
01650	Calcium	7440-70-2	7,550		2.67	21.4		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-038-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438625
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 10:27

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6908 SDG#: DE269-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	27,100		2.79	21.4		1
01656	Lithium	7439-93-2	23.3		0.66	2.1		1
01657	Magnesium	7439-95-4	5,830		0.470	10.7		1
06958	Manganese	7439-96-5	363		0.0385	0.534		1
10145	Phosphorus	7723-14-0	440		0.374	10.7		1
01662	Potassium	7440-09-7	2,800		11.8	52.4		1
01667	Sodium	7440-23-5	120		6.23	105		1
07968	Strontium	7440-24-6	38.0		0.0267	0.534		1
06969	Tin	7440-31-5	2.73	J	0.342	10.7		1
06970	Titanium	7440-32-6	1,340		0.0758	1.07		1
10146	Zirconium	7440-67-7	6.16		0.491	5.34		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.221		0.0775	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.82		0.0838	0.419		2
06126	Barium	7440-39-3	117		0.111	0.419		2
06127	Beryllium	7440-41-7	0.794		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.146		0.0461	0.105		2
06131	Chromium	7440-47-3	40.4		0.126	0.419		2
06132	Cobalt	7440-48-4	10.0		0.0209	0.105		2
06133	Copper	7440-50-8	10.6		0.0838	0.419		2
06135	Lead	7439-92-1	8.06		0.0107	0.209		2
06138	Molybdenum	7439-98-7	0.530		0.0524	0.105		2
06139	Nickel	7440-02-0	18.8		0.105	0.419		2
06141	Selenium	7782-49-2	0.122	J	0.0607	0.419		2
06142	Silver	7440-22-4	0.0413	J	0.0149	0.105		2
06145	Thallium	7440-28-0	0.303		0.0314	0.105		2
06148	Vanadium	7440-62-2	72.6		0.0230	0.105		2
06149	Zinc	7440-66-6	64.9		0.587	3.14		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	J	0.21	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-038-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438625
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 10:27

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6908 SDG#: DE269-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.41	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11291SLD026	10/21/2011	09:37	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11291SLE026	10/22/2011	01:50	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11291SLE026	10/18/2011	21:35	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11291SLD026	10/18/2011	21:35	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113010003A	11/02/2011	05:59	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	113010003A	10/28/2011	18:15	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011	03:36	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011	03:36	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011	03:36	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011	03:36	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011	03:36	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011	03:36	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011	03:36	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011	03:36	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011	11:19	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011	11:19	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011	03:36	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011	03:36	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011	03:36	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011	03:36	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011	08:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011	08:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011	08:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011	08:21	Choon Y Tian	2

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Sample Description: SL-038-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438625
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 10:27

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6908 SDG#: DE269-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 08:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 08:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 08:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 08:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 08:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 08:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 08:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 08:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 08:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 08:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 08:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 08:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 10:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201A	10/27/2011 14:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201B	10/20/2011 18:40	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11292243201A	10/20/2011 19:02	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201A	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201B	10/20/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402B	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-164-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA7-SB-0.5-1.5

LLI Sample # SW 6438626
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 14:20

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6909 SDG#: DE269-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	16.9	U	16.9	33.8		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-164-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA7-SB-0.5-1.5

LLI Sample # SW 6438626
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 14:20

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6909 SDG#: DE269-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.77	J	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.5	J	0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	4.3		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	19		6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	1.3	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	75		6.1	18		1
10138	Fluoranthene	206-44-0	2.1		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	0.97	J	0.68	1.7		1
10138	Pyrene	129-00-0	1.6	J	0.68	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	60	U	60	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	80	U	80	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	80	U	80	240	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-164-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA7-SB-0.5-1.5

LLI Sample # SW 6438626
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 14:20

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6909 SDG#: DE269-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	800	U	800	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	80	U	80	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	80	U	80	120	10000000	1
10132	PETN	78-11-5	800	U	800	2,400	10000000	1
10132	RDX	121-82-4	50	U	50	120	10000000	1
10132	Tetryl	479-45-8	61	U	61	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.80	J	0.34	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-164-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA7-SB-0.5-1.5

LLI Sample # SW 6438626
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 14:20

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6909 SDG#: DE269-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	2.9		0.41	1.2		1
10199	EFH (C21-C30)	n.a.	19		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	28		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	1.6		0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,600		6.06	20.0		1
07914	Boron	7440-42-8	0.361	U	0.361	5.01		1
01650	Calcium	7440-70-2	3,260		2.50	20.0		1
01654	Iron	7439-89-6	21,200		2.61	20.0		1
01656	Lithium	7439-93-2	20.9		0.62	2.0		1
01657	Magnesium	7439-95-4	5,890		0.441	10.0		1
06958	Manganese	7439-96-5	293		0.0361	0.501		1
10145	Phosphorus	7723-14-0	376		0.350	10.0		1
01662	Potassium	7440-09-7	1,980		11.5	51.1		1
01667	Sodium	7440-23-5	73.0	J	6.08	102		1
07968	Strontium	7440-24-6	14.1		0.0250	0.501		1
06969	Tin	7440-31-5	2.45	J	0.320	10.0		1
06970	Titanium	7440-32-6	1,170		0.0711	1.00		1
10146	Zirconium	7440-67-7	0.552	J	0.461	5.01		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.117	J	0.0741	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.58		0.0801	0.401		2
06126	Barium	7440-39-3	88.2		0.106	0.401		2
06127	Beryllium	7440-41-7	0.573		0.0160	0.100		2
06128	Cadmium	7440-43-9	0.0866	J	0.0441	0.100		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-164-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA7-SB-0.5-1.5

LLI Sample # SW 6438626
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 14:20

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6909 SDG#: DE269-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	22.4	0.120	0.401		2
06132	Cobalt	7440-48-4	6.94	0.0200	0.100		2
06133	Copper	7440-50-8	10.1	0.0801	0.401		2
06135	Lead	7439-92-1	5.70	0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.478	0.0501	0.100		2
06139	Nickel	7440-02-0	16.0	0.100	0.401		2
06141	Selenium	7782-49-2	0.201 J	0.0581	0.401		2
06142	Silver	7440-22-4	0.0314 J	0.0142	0.100		2
06145	Thallium	7440-28-0	0.249	0.0300	0.100		2
06148	Vanadium	7440-62-2	41.3	0.0220	0.100		2
06149	Zinc	7440-66-6	62.3	0.561	3.00		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0107 J	0.0070	0.0992		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7	0.81	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.5	0.81	1.5		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2 U	9.2	30.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27 J	0.20	1.0		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18 U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.47	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-164-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA7-SB-0.5-1.5

LLI Sample # SW 6438626
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 14:20

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6909 SDG#: DE269-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11291SLG026	11/02/2011 01:36	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11291SLD026	10/21/2011 10:02	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11291SLE026	10/22/2011 02:23	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11291SLG026	10/19/2011 06:50	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11291SLE026	10/18/2011 21:35	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11291SLD026	10/18/2011 21:35	Karen L Beyer	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112880015A	10/21/2011 10:19	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910003A	10/19/2011 22:25	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113010003A	11/02/2011 06:18	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	113010003A	10/28/2011 18:15	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910003A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880015A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900028A	10/18/2011 22:51	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/25/2011 23:29	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112920028A	10/21/2011 21:15	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112920027A	10/21/2011 06:26	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112920027A	10/20/2011 12:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112920028A	10/20/2011 12:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900028A	10/18/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011 03:47	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011 20:46	John P Hook	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011 03:47	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011 03:47	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011 03:47	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011 03:47	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011 03:47	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011 03:47	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011 11:22	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011 11:22	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011 03:47	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011 03:47	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011 03:47	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011 03:47	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011 08:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011 08:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011 08:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011 08:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 08:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 08:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 08:24	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-164-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA7-SB-0.5-1.5

LLI Sample # SW 6438626
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 14:20

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6909 SDG#: DE269-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 08:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 08:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 08:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 08:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 08:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 08:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 08:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 08:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 08:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 10:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201B	10/27/2011 15:18	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11299621201B	10/27/2011 15:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201B	10/20/2011 19:04	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11292243201A	10/20/2011 19:09	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201B	10/21/2011 08:16	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201B	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201B	10/20/2011 06:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201B	10/20/2011 15:35	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402B	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA3-SB-101411 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA3-SB-101411

LLI Sample # WW 6438627
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 14:00

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6910 SDG#: DE269-10EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l	ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	1.20	0.492	0.984		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 1.33 ng/l. The blank value was not subtracted from the analytical result. Sufficient sample was unavailable to repeat the analysis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11290WAA026	11/01/2011 18:19	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11290WAA026	10/17/2011 13:55	Wanda F Oswald	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-101411 Water
SSFL Area IV Collocated Soil Sampling
TB-101411

LLI Sample # WW 6438628
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 08:00

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6911 SDG#: DE269-11TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l	ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	3.99	0.533	1.07		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 1.33 ng/l. The blank value was not subtracted from the analytical result. Sufficient sample was unavailable to repeat the analysis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11290WAA026	11/01/2011 18:38	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11290WAA026	10/17/2011 13:55	Wanda F Oswald	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-101411 Sand
SSFL Area IV Collocated Soil Sampling
TB-101411

LLI Sample # SW 6438629
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 08:00

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6912 SDG#: DE269-12TB*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	16.7	U	16.7	33.3		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11291SLG026	11/02/2011 01:55	Matthew S Woods	1
11630	NDMA Soil Microwave	SW-846 3546	1	11291SLG026	10/19/2011 06:50	Katheryne V Sponheimer	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271484
Reported: 11/09/11 at 11:09 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11290WAA026	Sample number(s): 6438627-6438628									
N-Nitrosodimethylamine	1.33		0.500	1.00	ng/l	101	107	70-130	6	30
Batch number: 11291SLD026	Sample number(s): 6438618-6438626									
Aniline	170 U		170.	500	ug/kg	68		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	57		15-121		
Benzoic acid	170 U		170.	500	ug/kg	65		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	91		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	101		73-114		
Carbazole	17	U	17.	170	ug/kg	99		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	97		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	47		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	90		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	91		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	94		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	96		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	97		74-115		
Dibenzofuran	17	U	17.	170	ug/kg	94		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	89		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	43		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	99		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	97		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	119		83-120		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	47		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	26		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	101		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	102		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	97		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	99		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	97		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	86		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	87		61-109		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	95		66-110		

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271484
Reported: 11/09/11 at 11:09 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Methylphenol	33	U	33.	170	ug/kg	90		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	95		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	93		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	72		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	94		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	95		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	91		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	86		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	101		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	85		51-117		
Phenol	17	U	17.	170	ug/kg	95		58-112		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	96		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	99		78-111		
Batch number: 11291SLE026	Sample number(s): 6438618-6438626									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	94		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	91		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	96		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	99		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	95		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	96		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	105		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	99		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	87		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	92		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	103		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	107		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	93		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	96		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	106		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	102		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	101		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	105		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	91		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	102		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	98		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	94		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	89		72-119		
Batch number: 11291SLG026	Sample number(s): 6438626,6438629									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	105		70-130		
Batch number: 112880015A	Sample number(s): 6438626									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	109		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	106		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	87	90	54-134	4	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	86	90	54-134	4	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	110		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	101		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	106		80-120		
HMX	100		100.	300	ug/kg	93		74-130		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271484
Reported: 11/09/11 at 11:09 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Nitrobenzene	40 U	U	40.	120	ug/kg	106		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	90		80-120		
2-Nitrotoluene	80 U	U	80.	120	ug/kg	101		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	108		73-127		
4-Nitrotoluene	80 U	U	80.	120	ug/kg	101		80-120		
PETN	800 U		800.	2,400	ug/kg	104		80-120		
RDX	50 U	U	50.	120	ug/kg	102		75-131		
Tetryl	61 U	U	61.	120	ug/kg	96		70-168		
1,3,5-Trinitrobenzene	40 U	U	40.	120	ug/kg	104		77-137		
2,4,6-Trinitrotoluene	40 U	U	40.	120	ug/kg	108		80-120		
Batch number: 112910003A	Sample number(s): 6438626									
20a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	91		80-126		
Batch number: 112910025A	Sample number(s): 6438618-6438619,6438621									
Aroclor 5432	1.0 U	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0 U	U	1.0	3.3	ug/kg	69	66	36-106	4	30
Aroclor 5460	1.0 U	U	1.0	3.3	ug/kg					
PCB-1016	0.33 U	U	0.33	1.7	ug/kg	67*		72-120		
PCB-1221	0.33 U	U	0.33	1.7	ug/kg					
PCB-1232	0.33 U	U	0.33	1.7	ug/kg					
PCB-1242	0.33 U	U	0.33	1.7	ug/kg					
PCB-1248	0.33 U	U	0.33	1.7	ug/kg					
PCB-1254	0.33 U	U	0.33	1.7	ug/kg					
PCB-1260	0.39 U	U	0.39	1.7	ug/kg	85		65-137		
PCB-1262	0.33 U	U	0.33	1.7	ug/kg					
PCB-1268	0.33 U	U	0.33	1.7	ug/kg					
Batch number: 113010003A	Sample number(s): 6438620,6438622-6438626									
Aroclor 5432	1.0 U	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0 U	U	1.0	3.3	ug/kg	70	68	36-106	3	30
Aroclor 5460	1.0 U	U	1.0	3.3	ug/kg					
PCB-1016	0.33 U	U	0.33	1.7	ug/kg	80		72-120		
PCB-1221	0.33 U	U	0.33	1.7	ug/kg					
PCB-1232	0.33 U	U	0.33	1.7	ug/kg					
PCB-1242	0.33 U	U	0.33	1.7	ug/kg					
PCB-1248	0.33 U	U	0.33	1.7	ug/kg					
PCB-1254	0.33 U	U	0.33	1.7	ug/kg					
PCB-1260	0.39 U	U	0.39	1.7	ug/kg	95		65-137		
PCB-1262	0.33 U	U	0.33	1.7	ug/kg					
PCB-1268	0.33 U	U	0.33	1.7	ug/kg					
Batch number: 112900028A	Sample number(s): 6438626									
Ethanol	100 U		100.	500	ug/kg	89		71-129		
Isopropanol	100 U		100.	500	ug/kg	86		75-125		
Methanol	100 U		100.	500	ug/kg	90		68-129		
Batch number: 112980042A	Sample number(s): 6438626									
Diethylene glycol	5.0 U	U	5.0	10	mg/kg	100		75-125		
Ethylene glycol	5.0 U	U	5.0	10	mg/kg	106		53-149		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271484
Reported: 11/09/11 at 11:09 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Propylene glycol	5.0	U	5.0	10	mg/kg	99		67-131		
Batch number: 112920027A	Sample number(s): 6438626									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	94		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	96		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	97		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	85		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	83		49-107		
Batch number: 112920028A	Sample number(s): 6438626									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	100		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	105		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		69-109		
Batch number: 112901026001A	Sample number(s): 6438618-6438626									
Antimony	0.0740	U	0.0740	0.200	mg/kg	134		40-227		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	101		83-111		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	102		84-112		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	105		83-111		
Chromium	0.120	U	0.120	0.400	mg/kg	111		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	108		85-114		
Copper	0.0800	U	0.0800	0.400	mg/kg	104		81-110		
Lead	0.0102	U	0.0102	0.200	mg/kg	104		84-112		
Nickel	0.100	U	0.100	0.400	mg/kg	104		81-110		
Silver	0.0142	U	0.0142	0.100	mg/kg	102		83-112		
Thallium	0.0300	U	0.0300	0.100	mg/kg	103		82-112		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	103		76-110		
Zinc	0.560	U	0.560	3.00	mg/kg	101		82-110		
Batch number: 112901026001B	Sample number(s): 6438618-6438626									
Selenium	0.0580	U	0.0580	0.400	mg/kg	102		79-110		
Batch number: 112901026001C	Sample number(s): 6438618-6438626									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	105		80-110		
Batch number: 112901026001D	Sample number(s): 6438618-6438626									
Barium	0.106	U	0.106	0.400	mg/kg	102		83-110		
Batch number: 112905708002	Sample number(s): 6438618-6438626									
Aluminum	6.05	U	6.05	20.0	mg/kg	99		40-127		
Boron	0.360	U	0.360	5.00	mg/kg	103		83-110		
Calcium	6.41	J	2.50	20.0	mg/kg	106		81-110		
Iron	2.61	U	2.61	20.0	mg/kg	101		47-129		
Lithium	0.62	U	0.62	2.0	mg/kg	102		80-120		
Magnesium	0.440	U	0.440	10.0	mg/kg	102		63-116		
Manganese	0.0360	U	0.0360	0.500	mg/kg	104		85-116		
Phosphorus	1.73	J	0.350	10.0	mg/kg	107		80-120		
Strontium	0.0510	J	0.0250	0.500	mg/kg	107		84-110		
Tin	1.44	J	0.320	10.0	mg/kg	104		86-120		
Titanium	0.0710	U	0.0710	1.00	mg/kg	93		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	104		80-120		
Batch number: 112905711002	Sample number(s): 6438618-6438626									
Mercury	0.0070	U	0.0070	0.100	mg/kg	105		83-119		
Batch number: 112985708002	Sample number(s): 6438618-6438626									
Potassium	11.3	U	11.3	50.0	mg/kg	100		71-110		
Sodium	5.95	U	5.95	100	mg/kg	101		76-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271484
Reported: 11/09/11 at 11:09 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11292243201A	Sample number(s): 6438618-6438626									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	81		80-120		
Batch number: 11293102201B	Sample number(s): 6438626									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	85		80-120		
Batch number: 11293621201B	Sample number(s): 6438618-6438626									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	108		85-115		
Batch number: 11299621201A	Sample number(s): 6438618-6438625									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	104		90-110		
Batch number: 11299621201B	Sample number(s): 6438626									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	104		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	106		90-110		
Batch number: 11299039402A	Sample number(s): 6438618-6438623									
17a pH by 9045C						100		95-105		
Batch number: 11299039402B	Sample number(s): 6438624-6438626									
17a pH by 9045C						100		95-105		
Batch number: 11298162402A	Sample number(s): 6438618-6438626,6438629									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11291SLD026	Sample number(s): 6438618-6438626 UNSPK: P439922								
Aniline	71	71	18-116	0	30				
Benzidine	46	46	35-141	1	30				
Benzoic acid	58	26	10-173	75*	30				
Benzyl alcohol	94	96	67-115	3	30				
4-Bromophenyl-phenylether	100	100	67-129	1	30				
Carbazole	98	97	64-120	0	30				
4-Chloro-3-methylphenol	99	98	62-122	0	30				
4-Chloroaniline	57	64	13-107	13	30				
bis(2-Chloroethoxy)methane	95	96	75-104	2	30				
bis(2-Chloroethyl)ether	90	92	60-116	2	30				
bis(2-Chloroisopropyl)ether	91	91	55-142	1	30				
2-Chloronaphthalene	67	93	50-141	34*	30				
2-Chlorophenol	97	99	73-121	3	30				
4-Chlorophenyl-phenylether	99	99	80-109	1	30				
Dibenzofuran	95	95	71-112	1	30				
1,2-Dichlorobenzene	88	88	66-108	1	30				
1,3-Dichlorobenzene	88	88	63-109	0	30				
1,4-Dichlorobenzene	88	88	58-108	1	30				
3,3'-Dichlorobenzidine	47	52	28-109	11	30				
2,4-Dichlorophenol	102	101	66-123	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271484
Reported: 11/09/11 at 11:09 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dimethylphenol	99	98	68-118	0	30				
3,5-Dimethylphenol	111	118	71-127	8	30				
4,6-Dinitro-2-methylphenol	63	18	11-126	112*	30				
2,4-Dinitrophenol	33	12*	20-143	93*	30				
2,4-Dinitrotoluene	98	98	56-129	1	30				
2,6-Dinitrotoluene	101	102	69-123	2	30				
1,2-Diphenylhydrazine	100	100	71-129	1	30				
bis(2-Ethylhexyl)phthalate	98	97	63-122	1	30				
Hexachlorobenzene	98	98	77-114	1	30				
Hexachlorobutadiene	95	96	62-120	2	30				
Hexachlorocyclopentadiene	80	80	10-153	2	30				
Hexachloroethane	87	85	57-109	1	30				
Isophorone	95	95	73-102	1	30				
2-Methylphenol	97	98	75-111	2	30				
4-Methylphenol	93	94	59-123	2	30				
2-Nitroaniline	99	100	67-125	2	30				
3-Nitroaniline	95	95	59-122	1	30				
4-Nitroaniline	76	75	41-109	0	30				
Nitrobenzene	94	95	57-125	2	30				
2-Nitrophenol	95	96	56-127	2	30				
4-Nitrophenol	93	89	37-129	3	30				
N-Nitroso-di-n-propylamine	87	88	60-116	2	30				
N-Nitrosodiphenylamine	101	100	71-122	0	30				
Pentachlorophenol	89	64	28-127	32*	30				
Phenol	94	98	58-126	5	30				
1,2,4-Trichlorobenzene	93	94	72-115	2	30				
2,4,5-Trichlorophenol	100	99	58-129	0	30				
2,4,6-Trichlorophenol	99	99	56-134	1	30				
Batch number: 11291SLE026	Sample number(s): 6438618-6438626 UNSPK: 6438618								
Acenaphthene	99	97	63-105	3	30				
Acenaphthylene	93	93	67-114	0	30				
Anthracene	100	100	73-115	1	30				
Benzo(a)anthracene	105	103	59-128	2	30				
Benzo(a)pyrene	97	96	58-142	0	30				
Benzo(b)fluoranthene	102	103	54-163	1	30				
Benzo(g,h,i)perylene	110	64	33-141	53*	30				
Benzo(k)fluoranthene	97	102	57-153	4	30				
Butylbenzylphthalate	100	97	57-173	3	30				
Di-n-butylphthalate	97	94	65-148	3	30				
Chrysene	107	105	67-123	2	30				
Dibenz(a,h)anthracene	112	74	22-133	41*	30				
Diethylphthalate	96	95	70-136	1	30				
Dimethylphthalate	101	102	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	110	110	39-167	0	30				
Fluoranthene	109	106	51-149	3	30				
Fluorene	101	101	66-122	1	30				
Indeno(1,2,3-cd)pyrene	110	69	21-143	47*	30				
1-Methylnaphthalene	89	91	72-123	1	30				
2-Methylnaphthalene	89	90	64-103	1	30				
Naphthalene	90	92	61-102	1	30				
N-Nitrosodimethylamine	105	105	48-113	0	30				
Di-n-octylphthalate	90	87	40-192	4	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271484
Reported: 11/09/11 at 11:09 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Phenanthrene	98	96	62-122	2	30				
Pyrene	93	90	51-131	4	30				
Batch number: 11291SLG026	Sample number(s): 6438626,6438629 UNSPK: P437195								
N-Nitrosodimethylamine	97	95	70-130	2	30				
Batch number: 112880015A	Sample number(s): 6438626 UNSPK: P437195								
4-Amino-2,6-Dinitrotoluene	107	110	80-127	3	50				
2-Amino-4,6-Dinitrotoluene	104	107	80-137	2	50				
1,3-Dinitrobenzene	108	110	38-166	2	50				
2,4-Dinitrotoluene	98	102	80-131	3	50				
2,6-Dinitrotoluene	104	108	80-127	3	50				
HMX	92	93	63-128	1	50				
Nitrobenzene	102	105	80-125	4	50				
Nitroglycerin	99	99	80-120	0	50				
2-Nitrotoluene	99	103	80-122	4	50				
3-Nitrotoluene	105	109	72-119	3	50				
4-Nitrotoluene	99	102	80-125	3	50				
PETN	106	108	80-121	2	50				
RDX	98	99	75-129	1	50				
Tetryl	89	86	55-174	4	50				
1,3,5-Trinitrobenzene	99	101	82-126	2	50				
2,4,6-Trinitrotoluene	104	107	82-130	3	50				
Batch number: 112910003A	Sample number(s): 6438626 UNSPK: P437195								
20a Formaldehyde 8315A	98	104	80-120	6	50				
Batch number: 112910025A	Sample number(s): 6438618-6438619,6438621 UNSPK: P437195								
PCB-1016	65	65	29-146	0	50				
PCB-1260	79	84	39-149	7	50				
Batch number: 113010003A	Sample number(s): 6438620,6438622-6438626 UNSPK: P437195								
PCB-1016	80	81	29-146	1	50				
PCB-1260	86	87	39-149	1	50				
Batch number: 112900028A	Sample number(s): 6438626 UNSPK: P437195								
Ethanol	75	73	48-130	2	20				
Isopropanol	72	71	12-149	1	20				
Methanol	75	72	43-138	3	20				
Batch number: 112980042A	Sample number(s): 6438626 UNSPK: P437195								
Diethylene glycol	47*	48*	59-109	3	20				
Ethylene glycol	75	75	63-107	1	20				
Propylene glycol	77	78	63-107	0	20				
Batch number: 112920027A	Sample number(s): 6438626 UNSPK: P437195								
EFH (C12-C14)	82	89	49-123	8	20				
EFH (C15-C20)	81	98	49-123	13	20				
EFH (C21-C30)	102	117	49-123	7	20				
EFH (C30 - C40)	110	138*	49-123	8	20				
EFH (C8-C11)	0*	5*	49-123	10	20				
Batch number: 112920028A	Sample number(s): 6438626 UNSPK: P437195								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271484
Reported: 11/09/11 at 11:09 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
m-Terphenyl	97	98	75-125	2	20				
o-Terphenyl	102	103	75-125	1	20				
p-Terphenyl	95	97	75-125	2	20				
Batch number: 112901026001A	Sample number(s): 6438618-6438626 UNSPK: P437195 BKG: P437195								
Antimony	39*	43*	75-125	8	20	0.135 J	0.126 J	7 (1)	20
Arsenic	101	108	75-125	3	20	3.78	3.79	0	20
Beryllium	91	102	75-125	8	20	0.484	0.538	11 (1)	20
Cadmium	111	108	75-125	2	20	0.0714 J	0.0880 J	21* (1)	20
Chromium	95	120	75-125	9	20	17.3	20.5	17	20
Cobalt	105	108	75-125	3	20	5.76	6.25	8	20
Copper	107	116	75-125	5	20	8.35	10.0	18	20
Lead	119	146*	75-125	10	20	4.54	5.21	14	20
Nickel	112	117	75-125	3	20	11.5	13.8	18	20
Silver	103	110	75-125	7	20	0.0337 J	0.0284 J	17 (1)	20
Thallium	104	122	75-125	11	20	0.244	0.284	15 (1)	20
Vanadium	99	137*	75-125	8	20	34.2	40.9	18	20
Zinc	111 (2)	145 (2)	75-125	5	20	55.0	64.0	15	20
Batch number: 112901026001B	Sample number(s): 6438618-6438626 UNSPK: P437195 BKG: P437195								
Selenium	103	118	75-125	13	20	0.162 J	0.153 J	6 (1)	20
Batch number: 112901026001C	Sample number(s): 6438618-6438626 UNSPK: P437195 BKG: P437195								
Molybdenum	104	111	75-125	7	20	0.266	0.289	8 (1)	20
Batch number: 112901026001D	Sample number(s): 6438618-6438626 UNSPK: P437195 BKG: P437195								
Barium	138 (2)	141 (2)	75-125	0	20	85.0	93.7	10	20
Batch number: 112905708002	Sample number(s): 6438618-6438626 UNSPK: P437195 BKG: P437195								
Aluminum	2054 (2)	1557 (2)	75-125	6	20	12,500	12,700	2	20
Boron	103	102	84-115	0	20	1.03 J	0.806 J	25* (1)	20
Calcium	156 (2)	118 (2)	75-125	4	20	3,410	3,450	1	20
Iron	2305 (2)	15740 (2)	75-125	45*	20	20,200	20,700	2	20
Lithium	101	98	82-114	2	20	27.6	28.3	3	20
Magnesium	398 (2)	211 (2)	75-125	5	20	6,060	6,060	0	20
Manganese	45 (2)	74 (2)	75-125	4	20	299	276	8	20
Phosphorus	86 (2)	91 (2)	75-125	1	20	435	405	7	20
Strontium	100	98	75-115	1	20	12.6	12.1	4	20
Tin	90	89	80-110	0	20	2.61 J	2.45 J	6 (1)	20
Titanium	307 (2)	281 (2)	75-125	2	20	1,210	1,180	2	20
Zirconium	97	97	81-110	1	20	0.897 J	1.34 J	40* (1)	20
Batch number: 112905711002	Sample number(s): 6438618-6438626 UNSPK: P437195 BKG: P437195								
Mercury	101	99	65-135	4	20	0.0068 J	0.0069 U	200* (1)	20
Batch number: 112985708002	Sample number(s): 6438618-6438626 UNSPK: P437195 BKG: P437195								
Potassium	128*	119	75-125	3	20	2,360	2,410	2	20
Sodium	99	97	75-125	4	20	118	115	3 (1)	20
Batch number: 11292243201A	Sample number(s): 6438618-6438626 UNSPK: P437195 BKG: P437195								
3a Cr VI by EPA 7199	89		75-125			0.20 U	1.3	200* (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271484
Reported: 11/09/11 at 11:09 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Batch number: 11293102201B	Sample number(s): 6438626 UNSPK: P437195 BKG: P437195										
16a Cyanide by 9012B	99		75-125			0.18	U	0.18	U	0 (1)	20
Batch number: 11293621201B	Sample number(s): 6438618-6438626 UNSPK: 6438618 BKG: 6438618										
7a Perchlorate EPA 314.0	109		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11299621201A	Sample number(s): 6438618-6438625 UNSPK: P435696 BKG: P435696										
11a Anions by 300.0 - Fluoride	38*		80-120			1.5		1.5		2 (1)	20
Batch number: 11299621201B	Sample number(s): 6438626 UNSPK: P439922 BKG: P439922										
11a Anions by 300.0 - Fluoride	62*		80-120			4.3		4.4		1 (1)	20
11a Anions by 300.0 - Nitrate	102		80-120			1.3	J	1.4	J	6 (1)	20
Batch number: 11299039402A	Sample number(s): 6438618-6438623 BKG: P435690										
17a pH by 9045C						8.55		8.53		0	3
Batch number: 11299039402B	Sample number(s): 6438624-6438626 BKG: P437195										
17a pH by 9045C						7.86		7.90		1	3
Batch number: 11298162402A	Sample number(s): 6438618-6438626,6438629 BKG: 6438623										
Moisture Content by 160.3						15.4		15.6		1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21b. NDMA in Water
Batch number: 11290WAA026

	N-Nitrosodimethylamine-d6
6438627	117
6438628	149
Blank	102
LCS	101
LCSD	98
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11291SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6438618	86	92	80	87	87	84
6438619	89	94	82	91	90	84
6438620	85	90	77	86	83	85
6438621	87	92	70	87	84	82
6438622	82	87	70	83	81	82

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271484
Reported: 11/09/11 at 11:09 AM

Surrogate Quality Control

6438623	86	91	69	87	84	85
6438624	89	96	72	90	89	86
6438625	90	96	62	87	88	87
6438626	93	96	79	88	89	84
Blank	88	93	84	88	88	84
LCS	89	93	86	88	90	83
MS	91	94	89	89	90	82
MSD	91	95	86	89	89	83
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11291SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6438618	108	92	89
6438619	104	90	88
6438620	101	87	86
6438621	97	83	82
6438622	105	90	96
6438623	105	88	96
6438624	103	90	95
6438625	111	94	97
6438626	114	87	86
Blank	103	89	91
LCS	107	92	84
MS	107	91	87
MSD	109	92	85
Limits:	40-130	45-130	45-135

Analysis Name: 21a NDMA by 1625C
Batch number: 11291SLG026

	N-Nitrosodimethylamine-d6
6438626	86
6438629	87
Blank	124
LCS	120
MS	94
MSD	77
Limits:	50-150

Analysis Name: 15a Energetics by 8330A
Batch number: 112880015A

	2-Nitro-m-xylene
6438626	131
Blank	125
LCS	114
LCSD	113
MS	108
MSD	113
Limits:	80-146

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271484
Reported: 11/09/11 at 11:09 AM

Surrogate Quality Control

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112910003A

	Butyraldehyde
6438626	81
Blank	87
LCS	86
MS	80
MSD	84
Limits:	64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112910025A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6438618	79	93
6438619	63	77
6438621	52*	61
Blank	82	93
LCS	73	89
LCSD	76	99
MS	74	84
MSD	61	89
Limits:	53-139	45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 113010003A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6438620	81	89
6438622	80	85
6438623	83	90
6438624	79	92
6438625	88	91
6438626	87	86
Blank	81	94
LCS	84	95
LCSD	90	96
MS	88	86
MSD	90	86
Limits:	53-139	45-120

Analysis Name: 18a Alcohols by 8015B
Batch number: 112900028A

	Acetone
6438626	40*
Blank	83
LCS	82
MS	69
MSD	66
Limits:	42-138

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271484
Reported: 11/09/11 at 11:09 AM

Surrogate Quality Control

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112920027A

	Chlorobenzene	Orthoterphenyl
6438626	72	80
Blank	82	88
LCS	88	92
MS	77	86
MSD	80	90
Limits:	37-125	47-145

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112920028A

	n-Triacontane-d62
6438626	198*
Blank	80
LCS	79
MS	79
MSD	79
Limits:	19-152

Analysis Name: 19a Glycols by 8015B
Batch number: 112980042A

	Tetramethylene glycol
6438626	82
Blank	100
LCS	99
MS	88
MSD	87
Limits:	29-137

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acct# 13013 Gp# 1271484 sample# 6433618-29

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-006-SA3-SB-4.0-5.0	10.13.11	1529	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-006-SA3-SB-9.0-10.0	10.13.11	1447	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													Sampled 10.13.11
SL-036-SA5DS-SB-4.0-5.0	10.14.11	1138	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													Sampled 10.13.11
SL-036-SA5DS-SB-9.0-10.0	10.14.11	1134	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-037-SA5DS-SB-4.0-5.0	10.14.11	0947	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-037-SA5DS-SB-9.0-10.0	10.14.11	0905	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-038-SA5DS-SB-4.0-5.0	10.14.11	1100	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-038-SA5DS-SB-9.0-10.0	10.14.11	1027	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-164-SA7-SB-0.5-1.5	10.14.11	1420	SOIL	NONE	1-SS Sleeve			X	X																	
SL-164-SA7-SB-0.5-1.5	10.14.11	1420	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
EB-SA3-SB-101411	10.14.11	1400	WATER	NONE	1-1 L Amber														X							HGL ASTM II WATER-HA crew
TB-101411	10.14.11	0800	WATER	NONE	1-1 L Amber														X							
TB-101411	10.14.11	0800	SOIL	NONE	1-4 oz Jar														X							

Relinquished by: (Signature) — **Date/Time** 10/13/2011 / 1630 — **Received for Laboratory by: (Signature)**

Received by: (Signature) — **Date/Time** 10-13-11 1618 0945 — **Airbill No.(s)** 8767 9858 6806, 6817

JH 10/13/11 (2)

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 30, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/15/2011
Group Number: 1271486
SDG: DX149
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-006-SA3-SB-4.0-5.0 Soil	6438634
SL-006-SA3-SB-9.0-10.0 Soil	6438635
SL-036-SA5DS-SB-4.0-5.0 Soil	6438636
SL-036-SA5DS-SB-9.0-10.0 Soil	6438637
SL-037-SA5DS-SB-4.0-5.0 Soil	6438638
SL-037-SA5DS-SB-9.0-10.0 Soil	6438639
SL-038-SA5DS-SB-4.0-5.0 Soil	6438640
SL-038-SA5DS-SB-9.0-10.0 Soil	6438641
SL-164-SA7-SB-0.5-1.5 Soil	6438642

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: SL-006-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-4.0-5.0

LLI Sample # SW 6438634
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 15:29

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4906 SDG#: DX149-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-006-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-4.0-5.0

LLI Sample # SW 6438634
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 15:29

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4906 SDG#: DX149-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0466 U	0.0466	1.09	1
11031	12378-PeCDD	40321-76-4	0.0450 JBQ	0.0386	5.43	1
11031	123478-HxCDD	39227-28-6	0.0633 JBQ	0.0279	5.43	1
11031	123678-HxCDD	57653-85-7	0.0516 JQ	0.0289	5.43	1
11031	123789-HxCDD	19408-74-3	0.0621 JBQ	0.0298	5.43	1
11031	1234678-HpCDD	35822-46-9	0.276 JB	0.0305	5.43	1
11031	OCDD	3268-87-9	0.641 JBQ	0.0312	10.9	1
11031	2378-TCDF	51207-31-9	0.0372 JQ	0.0286	1.09	1
11031	12378-PeCDF	57117-41-6	0.0445 JBQ	0.0186	5.43	1
11031	23478-PeCDF	57117-31-4	0.0526 JB	0.0175	5.43	1
11031	123478-HxCDF	70648-26-9	0.0431 JBQ	0.0155	5.43	1
11031	123678-HxCDF	57117-44-9	0.0193 JBQ	0.0143	5.43	1
11031	123789-HxCDF	72918-21-9	0.0157 U	0.0157	5.43	1
11031	234678-HxCDF	60851-34-5	0.0589 JBQ	0.0136	5.43	1
11031	1234678-HpCDF	67562-39-4	0.176 JB	0.0142	5.43	1
11031	1234789-HpCDF	55673-89-7	0.0370 JBQ	0.0186	5.43	1
11031	OCDF	39001-02-0	0.158 JB	0.0408	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	103	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	86	26 - 138
13C12-OCDF	91	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-006-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-4.0-5.0

LLI Sample # SW 6438634
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 15:29

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4906 SDG#: DX149-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-006-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-4.0-5.0

LLI Sample # SW 6438634
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 15:29

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4906 SDG#: DX149-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/24/2011 22:20	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

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Analysis Report

Sample Description: SL-006-SA3-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-9.0-10.0

LLI Sample # SW 6438635
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:47

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4907 SDG#: DX149-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-006-SA3-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-9.0-10.0

LLI Sample # SW 6438635
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:47

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4907 SDG#: DX149-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.115	JQ	0.0525	1.13	1
11031	12378-PeCDD	40321-76-4	0.0438	U	0.0438	5.64	1
11031	123478-HxCDD	39227-28-6	0.0297	U	0.0297	5.64	1
11031	123678-HxCDD	57653-85-7	0.0545	JQ	0.0307	5.64	1
11031	123789-HxCDD	19408-74-3	0.0856	JBQ	0.0291	5.64	1
11031	1234678-HpCDD	35822-46-9	0.342	JBQ	0.0307	5.64	1
11031	OCDD	3268-87-9	0.910	JB	0.0262	11.3	1
11031	2378-TCDF	51207-31-9	0.0364	U	0.0364	1.13	1
11031	12378-PeCDF	57117-41-6	0.123	JBQ	0.0223	5.64	1
11031	23478-PeCDF	57117-31-4	0.118	JBQ	0.0197	5.64	1
11031	123478-HxCDF	70648-26-9	0.126	JBQ	0.0225	5.64	1
11031	123678-HxCDF	57117-44-9	0.0975	JBQ	0.0211	5.64	1
11031	123789-HxCDF	72918-21-9	0.0731	JBQ	0.0224	5.64	1
11031	234678-HxCDF	60851-34-5	0.0980	JB	0.0193	5.64	1
11031	1234678-HpCDF	67562-39-4	0.234	JB	0.0160	5.64	1
11031	1234789-HpCDF	55673-89-7	0.0545	JB	0.0203	5.64	1
11031	OCDF	39001-02-0	0.145	JB	0.0370	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	98	32 - 141
13C12-123678-HxCDD	99	28 - 130
13C12-123789-HxCDD	99	28 - 130
13C12-1234678-HpCDD	109	23 - 140
13C12-OCDD	114	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	94	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	91	28 - 136
13C12-123789-HxCDF	98	29 - 147
13C12-1234678-HpCDF	103	28 - 143
13C12-1234789-HpCDF	96	26 - 138
13C12-OCDF	102	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-006-SA3-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-9.0-10.0

LLI Sample # SW 6438635
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:47

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4907 SDG#: DX149-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-006-SA3-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-9.0-10.0

LLI Sample # SW 6438635
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:47

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4907 SDG#: DX149-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/25/2011 02:19	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-036-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438636
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:38

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4908 SDG#: DX149-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-036-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438636
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:38

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4908 SDG#: DX149-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0632	JQ	0.0504	1.15	1
11031	12378-PeCDD	40321-76-4	0.391	JB	0.0450	5.73	1
11031	123478-HxCDD	39227-28-6	0.202	JBQ	0.0323	5.73	1
11031	123678-HxCDD	57653-85-7	0.197	JQ	0.0328	5.73	1
11031	123789-HxCDD	19408-74-3	0.158	JBQ	0.0322	5.73	1
11031	1234678-HpCDD	35822-46-9	0.366	JBQ	0.0346	5.73	1
11031	OCDD	3268-87-9	0.559	JBQ	0.0305	11.5	1
11031	2378-TCDF	51207-31-9	0.0811	J	0.0298	1.15	1
11031	12378-PeCDF	57117-41-6	0.479	JB	0.0230	5.73	1
11031	23478-PeCDF	57117-31-4	0.357	JB	0.0207	5.73	1
11031	123478-HxCDF	70648-26-9	0.241	JB	0.0243	5.73	1
11031	123678-HxCDF	57117-44-9	0.281	JBQ	0.0222	5.73	1
11031	123789-HxCDF	72918-21-9	0.184	JBQ	0.0235	5.73	1
11031	234678-HxCDF	60851-34-5	0.165	JBQ	0.0211	5.73	1
11031	1234678-HpCDF	67562-39-4	0.229	JBQ	0.0152	5.73	1
11031	1234789-HpCDF	55673-89-7	0.105	JBQ	0.0191	5.73	1
11031	OCDF	39001-02-0	0.200	JBQ	0.0389	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	94	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	84	26 - 138
13C12-OCDF	86	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-036-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438636
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:38

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4908 SDG#: DX149-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-036-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438636
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:38

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4908 SDG#: DX149-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/25/2011 03:16	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

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Analysis Report

Sample Description: SL-036-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438637
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:34

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4909 SDG#: DX149-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-036-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438637
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:34

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4909 SDG#: DX149-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0518 U	0.0518	1.13	1
11031	12378-PeCDD	40321-76-4	0.182 JBQ	0.0440	5.64	1
11031	123478-HxCDD	39227-28-6	0.0897 JBQ	0.0364	5.64	1
11031	123678-HxCDD	57653-85-7	0.286 J	0.0369	5.64	1
11031	123789-HxCDD	19408-74-3	0.690 JBQ	0.0360	5.64	1
11031	1234678-HpCDD	35822-46-9	0.355 JBQ	0.0349	5.64	1
11031	OCDD	3268-87-9	0.628 JB	0.0335	11.3	1
11031	2378-TCDF	51207-31-9	0.0589 JQ	0.0349	1.13	1
11031	12378-PeCDF	57117-41-6	0.267 JB	0.0217	5.64	1
11031	23478-PeCDF	57117-31-4	0.168 JBQ	0.0209	5.64	1
11031	123478-HxCDF	70648-26-9	0.137 JBQ	0.0243	5.64	1
11031	123678-HxCDF	57117-44-9	0.166 JBQ	0.0217	5.64	1
11031	123789-HxCDF	72918-21-9	0.725 JBQ	0.0245	5.64	1
11031	234678-HxCDF	60851-34-5	0.114 JB	0.0204	5.64	1
11031	1234678-HpCDF	67562-39-4	0.165 JBQ	0.0167	5.64	1
11031	1234789-HpCDF	55673-89-7	0.0242 JBQ	0.0227	5.64	1
11031	OCDF	39001-02-0	0.112 JBQ	0.0453	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	81	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-036-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438637
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:34

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4909 SDG#: DX149-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-036-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438637
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:34

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4909 SDG#: DX149-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/25/2011 04:12	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

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Analysis Report

Sample Description: SL-037-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438638
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:47

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4910 SDG#: DX149-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-037-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438638
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:47

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4910 SDG#: DX149-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.114 JQ	0.0563	1.15	1
11031	12378-PeCDD	40321-76-4	0.172 JBQ	0.0442	5.75	1
11031	123478-HxCDD	39227-28-6	0.0654 JBQ	0.0311	5.75	1
11031	123678-HxCDD	57653-85-7	0.239 J	0.0320	5.75	1
11031	123789-HxCDD	19408-74-3	0.488 JB	0.0343	5.75	1
11031	1234678-HpCDD	35822-46-9	0.294 JBQ	0.0338	5.75	1
11031	OCDD	3268-87-9	0.670 JB	0.0350	11.5	1
11031	2378-TCDF	51207-31-9	0.0416 J	0.0344	1.15	1
11031	12378-PeCDF	57117-41-6	0.301 JB	0.0224	5.75	1
11031	23478-PeCDF	57117-31-4	0.285 JBQ	0.0201	5.75	1
11031	123478-HxCDF	70648-26-9	0.136 JBQ	0.0264	5.75	1
11031	123678-HxCDF	57117-44-9	0.0902 JBQ	0.0235	5.75	1
11031	123789-HxCDF	72918-21-9	0.657 JB	0.0258	5.75	1
11031	234678-HxCDF	60851-34-5	0.0677 JBQ	0.0213	5.75	1
11031	1234678-HpCDF	67562-39-4	0.138 JBQ	0.0171	5.75	1
11031	1234789-HpCDF	55673-89-7	0.0546 JBQ	0.0234	5.75	1
11031	OCDF	39001-02-0	0.0767 JB	0.0428	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	79	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-037-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438638
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:47

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4910 SDG#: DX149-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-037-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438638
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:47

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4910 SDG#: DX149-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/25/2011 05:09	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

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Analysis Report

Sample Description: SL-037-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438639
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:05

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4911 SDG#: DX149-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-037-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438639
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:05

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4911 SDG#: DX149-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0526 U	0.0526	1.17	1
11031	12378-PeCDD	40321-76-4	0.0430 U	0.0430	5.83	1
11031	123478-HxCDD	39227-28-6	0.0314 JBQ	0.0287	5.83	1
11031	123678-HxCDD	57653-85-7	0.0299 U	0.0299	5.83	1
11031	123789-HxCDD	19408-74-3	0.0452 JBQ	0.0291	5.83	1
11031	1234678-HpCDD	35822-46-9	0.298 JB	0.0337	5.83	1
11031	OCDD	3268-87-9	0.585 JB	0.0303	11.7	1
11031	2378-TCDF	51207-31-9	0.0316 U	0.0316	1.17	1
11031	12378-PeCDF	57117-41-6	0.0215 JBQ	0.0202	5.83	1
11031	23478-PeCDF	57117-31-4	0.0579 JBQ	0.0196	5.83	1
11031	123478-HxCDF	70648-26-9	0.0300 JBQ	0.0187	5.83	1
11031	123678-HxCDF	57117-44-9	0.0294 JBQ	0.0165	5.83	1
11031	123789-HxCDF	72918-21-9	0.0584 JBQ	0.0184	5.83	1
11031	234678-HxCDF	60851-34-5	0.0283 JBQ	0.0150	5.83	1
11031	1234678-HpCDF	67562-39-4	0.0771 JB	0.0142	5.83	1
11031	1234789-HpCDF	55673-89-7	0.0336 JBQ	0.0215	5.83	1
11031	OCDF	39001-02-0	0.194 JB	0.0405	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	78	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-037-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438639
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:05

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4911 SDG#: DX149-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-037-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438639
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:05

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4911 SDG#: DX149-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/25/2011 06:05	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-038-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438640
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:00

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4912 SDG#: DX149-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-038-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438640
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:00

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4912 SDG#: DX149-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0444 U	0.0444	1.08	1
11031	12378-PeCDD	40321-76-4	0.0398 U	0.0398	5.38	1
11031	123478-HxCDD	39227-28-6	0.0436 JBQ	0.0246	5.38	1
11031	123678-HxCDD	57653-85-7	0.0241 U	0.0241	5.38	1
11031	123789-HxCDD	19408-74-3	0.101 JBQ	0.0236	5.38	1
11031	1234678-HpCDD	35822-46-9	0.268 JBQ	0.0314	5.38	1
11031	OCDD	3268-87-9	0.914 JB	0.0271	10.8	1
11031	2378-TCDF	51207-31-9	0.0293 U	0.0293	1.08	1
11031	12378-PeCDF	57117-41-6	0.0523 JBQ	0.0175	5.38	1
11031	23478-PeCDF	57117-31-4	0.0392 JBQ	0.0174	5.38	1
11031	123478-HxCDF	70648-26-9	0.0182 U	0.0182	5.38	1
11031	123678-HxCDF	57117-44-9	0.0179 JBQ	0.0169	5.38	1
11031	123789-HxCDF	72918-21-9	0.120 JBQ	0.0167	5.38	1
11031	234678-HxCDF	60851-34-5	0.0146 U	0.0146	5.38	1
11031	1234678-HpCDF	67562-39-4	0.0996 JBQ	0.0140	5.38	1
11031	1234789-HpCDF	55673-89-7	0.0575 JBQ	0.0205	5.38	1
11031	OCDF	39001-02-0	0.217 JBQ	0.0406	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	99	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	85	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-038-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438640
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:00

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4912 SDG#: DX149-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-038-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438640
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:00

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4912 SDG#: DX149-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/25/2011 07:02	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

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Analysis Report

Sample Description: SL-038-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438641
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 10:27

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4913 SDG#: DX149-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-038-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438641
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 10:27

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4913 SDG#: DX149-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0447 U	0.0447	1.04	1
11031	12378-PeCDD	40321-76-4	0.0544 JBQ	0.0352	5.22	1
11031	123478-HxCDD	39227-28-6	0.0276 U	0.0276	5.22	1
11031	123678-HxCDD	57653-85-7	0.0290 U	0.0290	5.22	1
11031	123789-HxCDD	19408-74-3	0.0735 JBQ	0.0288	5.22	1
11031	1234678-HpCDD	35822-46-9	0.332 JBQ	0.0263	5.22	1
11031	OCDD	3268-87-9	0.580 JB	0.0296	10.4	1
11031	2378-TCDF	51207-31-9	0.0289 U	0.0289	1.04	1
11031	12378-PeCDF	57117-41-6	0.0315 JBQ	0.0188	5.22	1
11031	23478-PeCDF	57117-31-4	0.0419 JBQ	0.0172	5.22	1
11031	123478-HxCDF	70648-26-9	0.0292 JB	0.0187	5.22	1
11031	123678-HxCDF	57117-44-9	0.0232 JBQ	0.0166	5.22	1
11031	123789-HxCDF	72918-21-9	0.147 JBQ	0.0201	5.22	1
11031	234678-HxCDF	60851-34-5	0.0281 JBQ	0.0161	5.22	1
11031	1234678-HpCDF	67562-39-4	0.0871 JBQ	0.0145	5.22	1
11031	1234789-HpCDF	55673-89-7	0.0399 JBQ	0.0198	5.22	1
11031	OCDF	39001-02-0	0.146 JBQ	0.0351	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	104	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	90	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-038-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438641
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 10:27

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4913 SDG#: DX149-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-038-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438641
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 10:27

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4913 SDG#: DX149-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/25/2011 07:59	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-164-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA7-SB-0.5-1.5

LLI Sample # SW 6438642
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 14:20

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4914 SDG#: DX149-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-164-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA7-SB-0.5-1.5

LLI Sample # SW 6438642
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 14:20

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4914 SDG#: DX149-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0430 U	0.0430	0.999	1
11031	12378-PeCDD	40321-76-4	0.0477 JB	0.0339	5.00	1
11031	123478-HxCDD	39227-28-6	0.0311 JBQ	0.0289	5.00	1
11031	123678-HxCDD	57653-85-7	0.0296 U	0.0296	5.00	1
11031	123789-HxCDD	19408-74-3	0.0690 JB	0.0280	5.00	1
11031	1234678-HpCDD	35822-46-9	0.584 JB	0.0335	5.00	1
11031	OCDD	3268-87-9	4.56 JB	0.0246	9.99	1
11031	2378-TCDF	51207-31-9	0.0362 U	0.0362	0.999	1
11031	12378-PeCDF	57117-41-6	0.0354 JBQ	0.0222	5.00	1
11031	23478-PeCDF	57117-31-4	0.0601 JB	0.0210	5.00	1
11031	123478-HxCDF	70648-26-9	0.0717 JBQ	0.0219	5.00	1
11031	123678-HxCDF	57117-44-9	0.0286 JB	0.0195	5.00	1
11031	123789-HxCDF	72918-21-9	0.0294 JBQ	0.0211	5.00	1
11031	234678-HxCDF	60851-34-5	0.0622 JBQ	0.0177	5.00	1
11031	1234678-HpCDF	67562-39-4	0.195 JB	0.0150	5.00	1
11031	1234789-HpCDF	55673-89-7	0.0524 JBQ	0.0220	5.00	1
11031	OCDF	39001-02-0	0.392 JBQ	0.0368	9.99	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	96	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	83	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-164-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA7-SB-0.5-1.5

LLI Sample # SW 6438642
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 14:20

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4914 SDG#: DX149-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-164-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA7-SB-0.5-1.5

LLI Sample # SW 6438642
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 14:20

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4914 SDG#: DX149-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/25/2011 08:55	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271486
Reported: 10/30/11 at 04:19 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11298162402A	Sample number(s): 6438634-6438642								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11294002	Sample number(s): 6438634-6438642								
2378-TCDD	0.0609 U	0.0609	1.00	ng/kg	107		67-158		
12378-PeCDD	0.0460 J	0.0441	5.00	ng/kg	105		70-142		
123478-HxCDD	0.0460 J	0.0278	5.00	ng/kg	100		70-164		
123678-HxCDD	0.0276 U	0.0276	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0516 J	0.0279	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.267 J	0.0317	5.00	ng/kg	100		70-140		
OCDD	0.461 J	0.0245	10.0	ng/kg	95		78-144		
2378-TCDF	0.0429 U	0.0429	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0382 J	0.0220	5.00	ng/kg	102		80-134		
23478-PeCDF	0.0374 J	0.0203	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0843 J	0.0241	5.00	ng/kg	97		72-134		
123678-HxCDF	0.0224 J	0.0214	5.00	ng/kg	98		84-130		
123789-HxCDF	0.0575 J	0.0180	5.00	ng/kg	98		78-130		
234678-HxCDF	0.0541 J	0.0162	5.00	ng/kg	96		70-156		
1234678-HpCDF	0.154 J	0.0152	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0824 J	0.0190	5.00	ng/kg	96		78-138		
OCDF	0.172 J	0.0394	10.0	ng/kg	97		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11298162402A	Sample number(s): 6438634-6438642 BKG: P438623								
Moisture Content by 160.3						15.4	15.6	1	20
Batch number: 11294002	Sample number(s): 6438634-6438642 UNSPK: P435711								
2378-TCDD	109	105	67-158	3	25				
12378-PeCDD	105	104	70-142	0	25				
123478-HxCDD	98	98	70-164	1	25				
123678-HxCDD	93	95	76-134	3	25				
123789-HxCDD	100	102	64-162	3	25				
1234678-HpCDD	98	99	70-140	3	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271486
Reported: 10/30/11 at 04:19 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
OCDD	96	95	78-144	1	25				
2378-TCDF	98	97	75-158	0	25				
12378-PeCDF	101	102	80-134	2	25				
23478-PeCDF	96	93	68-160	2	25				
123478-HxCDF	100	97	72-134	2	25				
123678-HxCDF	98	98	84-130	0	25				
123789-HxCDF	100	98	78-130	0	25				
234678-HxCDF	95	95	70-156	2	25				
1234678-HpCDF	90	90	82-122	1	25				
1234789-HpCDF	96	96	78-138	1	25				
OCDF	97	95	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11294002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6438634	76	78	73	78	87	86
6438635	86	94	78	87	91	98
6438636	72	76	70	77	83	86
6438637	69	70	70	76	78	77
6438638	67	71	64	71	80	77
6438639	70	72	65	73	80	77
6438640	74	75	69	76	81	83
6438641	74	75	71	78	84	79
6438642	71	72	66	74	79	77
Blank	86	88	61	70	88	96
MS	76	80	51	59	84	85
MSD	72	79	50	54	81	84
OPR	74	77	60	69	78	83
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6438634	92	86	91	77	88	92
6438635	103	96	102	94	98	99
6438636	88	84	86	75	87	87
6438637	88	76	81	71	83	85
6438638	85	74	79	70	83	88
6438639	87	75	78	75	86	85
6438640	93	79	85	77	87	89
6438641	93	80	90	76	88	88
6438642	89	77	83	73	86	86
Blank	92	93	100	92	92	97
MS	77	83	88	81	90	89

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271486
Reported: 10/30/11 at 04:19 PM

Surrogate Quality Control

MSD	72	83	92	79	83	84
OPR	88	82	87	81	86	87
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6438634	88	93	103	78	79
6438635	99	109	114	87	94
6438636	86	89	94	75	77
6438637	82	86	93	70	74
6438638	82	84	91	68	73
6438639	83	85	91	70	75
6438640	86	91	99	73	79
6438641	88	92	104	73	80
6438642	83	87	96	72	75
Blank	96	108	118	82	92
MS	89	95	102	78	84
MSD	85	92	103	72	79
OPR	86	95	103	73	81
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 QP# 1271436 sample# 6135634-42

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 5 (SA5) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-006-SA3-SB-4.0-5.0	10.13.11	1529	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													Sampled 10.13.11
SL-006-SA3-SB-9.0-10.0	10.13.11	1447	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													Sampled 10.13.11
SL-036-SA5DS-SB-4.0-5.0	10.14.11	1138	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-036-SA5DS-SB-9.0-10.0	10.14.11	1134	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-037-SA5DS-SB-4.0-5.0	10.14.11	0947	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-037-SA5DS-SB-9.0-10.0	10.14.11	0905	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-038-SA5DS-SB-4.0-5.0	10.14.11	1100	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-038-SA5DS-SB-9.0-10.0	10.14.11	1027	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-164-SA7-SB-0.5-1.5	10.14.11	1420	SOIL	NONE	1-SS Sleeve			X	X																	
SL-164-SA7-SB-0.5-1.5	10.14.11	1420	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
EB-SA3-SB-101411	10.14.11	1400	WATER	NONE	1-1 L Amber														X							HGL ASTM II WATER-HA crew
TB-101411	10.14.11	0800	WATER	NONE	1-1 L Amber														X							
TB-101411	10.14.11	0800	SOIL	NONE	1-4 oz Jar														X							

Relinquished by: (*Signature*) — Date/Time: 10/13/2011 / 1630 — Received for Laboratory by: (*Signature*)

Received by: (*Signature*) — Date/Time: 10-15-11 0945 — Airbill No.(s): 8767 9858 6806, 6817

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 05, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/08/2011
Group Number: 1275265
SDG: DE281
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-001-SA3-SB-2.0-3.0 Soil	6462616
SL-004-SA3-SB-4.0-5.0 Soil	6462617
SL-004-SA3-SB-7.0-8.0 Soil	6462618
SL-013-SA3-SB-0.5-1.5 Soil	6462619
SL-010-SA3-SB-3.0-4.0 Soil	6462620
EB-SA3-SB-110711 Water	6462621
TB-110711 Sand	6462622
TB-110711 Water	6462623
TB-110711 Water	6462624

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA3-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA3-SB

LLI Sample # SW 6462616
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 09:25

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL001 SDG#: DE281-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	21	J	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	520		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-001-SA3-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA3-SB

LLI Sample # SW 6462616
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 09:25

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL001 SDG#: DE281-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.3	J	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	7.4	J	6.2	19		1
10138	Chrysene	218-01-9	0.97	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	25		6.2	19		1
10138	Fluoranthene	206-44-0	0.96	J	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.81	J	0.69	1.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,100		6.00	19.8		1
07914	Boron	7440-42-8	3.49	J	0.357	4.96		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA3-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA3-SB

LLI Sample # SW 6462616
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 09:25

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL001 SDG#: DE281-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	1,080		2.48	19.8		1
01654	Iron	7439-89-6	17,400		2.59	19.8		1
01656	Lithium	7439-93-2	23.3		0.62	2.0		1
01657	Magnesium	7439-95-4	2,840		0.437	9.92		1
06958	Manganese	7439-96-5	194		0.0357	0.496		1
10145	Phosphorus	7723-14-0	226		0.347	9.92		1
01662	Potassium	7440-09-7	3,180		11.2	49.6		1
01667	Sodium	7440-23-5	89.4	J	5.90	99.2		1
07968	Strontium	7440-24-6	10.8		0.0248	0.496		1
06969	Tin	7440-31-5	2.66	J	0.318	9.92		1
06970	Titanium	7440-32-6	967		0.0705	0.992		1
10146	Zirconium	7440-67-7	2.19	J	0.456	4.96		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0756	U	0.0756	0.204		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.48		0.0817	0.409		2
06126	Barium	7440-39-3	57.6		0.108	0.409		2
06127	Beryllium	7440-41-7	0.556		0.0163	0.102		2
06128	Cadmium	7440-43-9	0.0724	J	0.0450	0.102		2
06131	Chromium	7440-47-3	10.2		0.123	0.409		2
06132	Cobalt	7440-48-4	4.22		0.0204	0.102		2
06133	Copper	7440-50-8	5.38		0.0817	0.409		2
06135	Lead	7439-92-1	5.66		0.0104	0.204		2
06138	Molybdenum	7439-98-7	0.252		0.0511	0.102		2
06139	Nickel	7440-02-0	7.04		0.102	0.409		2
06141	Selenium	7782-49-2	0.113	J	0.0593	0.409		2
06142	Silver	7440-22-4	0.0250	J	0.0145	0.102		2
06145	Thallium	7440-28-0	0.267		0.0307	0.102		2
06148	Vanadium	7440-62-2	22.7		0.0225	0.102		2
06149	Zinc	7440-66-6	56.3		0.572	3.07		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.67	J	0.21	1.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA3-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA3-SB

LLI Sample # SW 6462616
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 09:25

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL001 SDG#: DE281-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	6.70	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	3.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11318SLA026	11/26/2011	11:13	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11318SLB026	11/29/2011	01:16	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11318SLB026	11/14/2011	18:10	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11318SLA026	11/14/2011	18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113150020A	11/16/2011	07:26	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113150020A	11/11/2011	16:00	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	113125708003	11/10/2011	07:06	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113125708003	11/10/2011	07:06	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113125708003	11/10/2011	07:06	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113125708003	11/10/2011	07:06	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113125708003	11/10/2011	07:06	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113125708003	11/10/2011	07:06	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113125708003	11/10/2011	07:06	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113125708003	11/10/2011	07:06	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113125708003	11/10/2011	07:06	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113125708003	11/10/2011	07:06	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113125708003	11/10/2011	07:06	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113125708003	11/10/2011	07:06	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113125708003	11/10/2011	07:06	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113125708003	11/10/2011	07:06	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113121026003A	11/16/2011	15:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113121026003A	11/16/2011	15:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113121026003D	11/16/2011	15:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113121026003A	11/16/2011	15:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113121026003A	11/16/2011	15:22	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-001-SA3-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA3-SB

LLI Sample # SW 6462616
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 09:25

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL001 SDG#: DE281-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	113121026003A	11/16/2011 15:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113121026003A	11/16/2011 15:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113121026003A	11/16/2011 15:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113121026003A	11/16/2011 15:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113121026003C	11/16/2011 15:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113121026003A	11/16/2011 15:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113121026003B	11/16/2011 15:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113121026003A	11/16/2011 15:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113121026003A	11/16/2011 15:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113121026003A	11/16/2011 15:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113121026003A	11/16/2011 15:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113125711003	11/09/2011 17:31	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113125708003	11/09/2011 10:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113121026003	11/09/2011 11:35	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113125711003	11/09/2011 12:16	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11313621201A	11/09/2011 14:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11313621202A	11/09/2011 16:12	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11322243201A	11/19/2011 09:22	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11313621201A	11/09/2011 06:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11313621202A	11/09/2011 06:10	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11319039401A	11/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11322243201A	11/18/2011 08:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11315162401B	11/11/2011 22:24	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-004-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA3-SB

LLI Sample # SW 6462617
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 14:50

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL044 SDG#: DE281-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	17.3	U	17.3	34.7		1
	The internal standard peak areas were outside of QC limits in the method blank and LCS associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-004-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA3-SB

LLI Sample # SW 6462617
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 14:50

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL044 SDG#: DE281-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	7.4	J	6.2	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	19		6.2	19		1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25.46
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	120	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-004-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA3-SB

LLI Sample # SW 6462617
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 14:50

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL044 SDG#: DE281-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	83	U	83	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	83	U	83	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	120	10000000	1
10132	Nitroglycerin	55-63-0	830	U	830	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	83	U	83	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	83	U	83	120	10000000	1
10132	PETN	78-11-5	830	U	830	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	120	10000000	1
10132	Tetryl	479-45-8	64	U	64	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	120	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	620	U	620	1,500		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-004-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA3-SB

LLI Sample # SW 6462617
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 14:50

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL044 SDG#: DE281-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.2		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.2		1
10199	EFH (C21-C30)	n.a.	0.42	U	0.42	1.2		1
10199	EFH (C30 - C40)	n.a.	0.91	J	0.42	1.2		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,400		6.00	19.8		1
07914	Boron	7440-42-8	5.17		0.357	4.96		1
01650	Calcium	7440-70-2	1,260		2.48	19.8		1
01654	Iron	7439-89-6	16,500		2.59	19.8		1
01656	Lithium	7439-93-2	21.7		0.61	2.0		1
01657	Magnesium	7439-95-4	3,090		0.436	9.91		1
06958	Manganese	7439-96-5	224		0.0357	0.496		1
10145	Phosphorus	7723-14-0	196		0.347	9.91		1
01662	Potassium	7440-09-7	2,930		11.2	49.6		1
01667	Sodium	7440-23-5	88.4	J	5.90	99.1		1
07968	Strontium	7440-24-6	13.0		0.0248	0.496		1
06969	Tin	7440-31-5	2.58	J	0.317	9.91		1
06970	Titanium	7440-32-6	956		0.0704	0.991		1
10146	Zirconium	7440-67-7	2.41	J	0.456	4.96		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0755	U	0.0755	0.204		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.62		0.0816	0.408		2
06126	Barium	7440-39-3	95.1		0.108	0.408		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-004-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA3-SB

LLI Sample # SW 6462617
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 14:50

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL044 SDG#: DE281-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.804	0.0163	0.102		2
06128	Cadmium	7440-43-9	0.0713 J	0.0449	0.102		2
06131	Chromium	7440-47-3	15.7	0.122	0.408		2
06132	Cobalt	7440-48-4	5.23	0.0204	0.102		2
06133	Copper	7440-50-8	6.00	0.0816	0.408		2
06135	Lead	7439-92-1	6.51	0.0104	0.204		2
06138	Molybdenum	7439-98-7	0.415	0.0510	0.102		2
06139	Nickel	7440-02-0	9.41	0.102	0.408		2
06141	Selenium	7782-49-2	0.141 J	0.0592	0.408		2
06142	Silver	7440-22-4	0.0301 J	0.0145	0.102		2
06145	Thallium	7440-28-0	0.318	0.0306	0.102		2
06148	Vanadium	7440-62-2	30.9	0.0224	0.102		2
06149	Zinc	7440-66-6	66.7	0.571	3.06		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070 U	0.0070	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84 U	0.84	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4 J	0.84	1.6		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4 U	9.4	31.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21 U	0.21	1.0		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.52		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.59	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-004-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA3-SB

LLI Sample # SW 6462617
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 14:50

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL044 SDG#: DE281-02

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-004-SA3-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11313SLF026	11/17/2011 05:25	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11318SLA026	11/26/2011 11:38	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11318SLB026	11/29/2011 04:42	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11313SLF026	11/10/2011 11:45	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11318SLB026	11/14/2011 18:10	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11318SLA026	11/14/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11313A16A	11/09/2011 23:35	Marie D John	25.46
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201131226126	11/08/2011 16:14	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201131226126	11/08/2011 16:15	Lois E Hiltz	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	113190001A	11/19/2011 00:42	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	113180003A	11/16/2011 14:47	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113150020A	11/16/2011 07:45	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113150020A	11/11/2011 16:00	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	113180003A	11/14/2011 14:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	113190001A	11/15/2011 14:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	113130024A	11/11/2011 00:33	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	113200029A	11/16/2011 21:49	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	113180012A	11/15/2011 14:50	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113190011A	11/17/2011 18:47	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	113190011A	11/15/2011 16:15	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	113180012A	11/14/2011 18:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	113130024A	11/10/2011 19:00	Lei Yin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	113200029A	11/16/2011 16:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	113125708003	11/10/2011 07:33	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113125708003	11/10/2011 07:33	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113125708003	11/10/2011 07:33	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113125708003	11/10/2011 07:33	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113125708003	11/10/2011 07:33	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113125708003	11/10/2011 07:33	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113125708003	11/10/2011 07:33	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113125708003	11/10/2011 07:33	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113125708003	11/10/2011 07:33	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113125708003	11/10/2011 07:33	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-004-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA3-SB

LLI Sample # SW 6462617
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 14:50

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL044 SDG#: DE281-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	113125708003	11/10/2011 07:33	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113125708003	11/10/2011 07:33	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113125708003	11/10/2011 07:33	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113125708003	11/10/2011 07:33	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113121026003A	11/16/2011 15:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113121026003A	11/16/2011 15:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113121026003D	11/16/2011 15:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113121026003A	11/16/2011 15:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113121026003A	11/16/2011 15:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113121026003A	11/16/2011 15:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113121026003A	11/16/2011 15:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113121026003A	11/16/2011 15:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113121026003A	11/16/2011 15:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113121026003C	11/16/2011 15:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113121026003A	11/16/2011 15:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113121026003B	11/16/2011 15:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113121026003A	11/16/2011 15:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113121026003A	11/16/2011 15:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113121026003A	11/16/2011 15:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113121026003A	11/16/2011 15:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113125711003	11/09/2011 17:32	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113125708003	11/09/2011 10:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113121026003	11/09/2011 11:35	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113125711003	11/09/2011 12:16	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11313621201A	11/09/2011 15:49	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11313621201A	11/09/2011 15:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11313621202A	11/09/2011 16:33	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11322243201A	11/19/2011 09:28	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11320102202A	11/17/2011 08:40	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11313621201A	11/09/2011 06:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11313621202A	11/09/2011 06:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11320102202A	11/16/2011 15:00	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11319039401A	11/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11322243201A	11/18/2011 08:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401A	12/01/2011 22:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA3-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA3-SB

LLI Sample # SW 6462618
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 15:25

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL049 SDG#: DE281-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	17.8	U	17.8	35.5		1
	The internal standard peak areas were outside of QC limits in the method blank and LCS associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
	The internal standard peak areas were outside of QC limits for both the initial injection and the re-injection of this sample. The sample was also re-extracted outside of the method required holding time, and internal standard peak areas were within QC limits. The values here are from the initial injection of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							

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Sample Description: SL-004-SA3-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA3-SB

LLI Sample # SW 6462618
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 15:25

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL049 SDG#: DE281-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	16	J	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		27.53

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Sample Description: SL-004-SA3-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA3-SB

LLI Sample # SW 6462618
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 15:25

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL049 SDG#: DE281-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1

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SSFL Area IV Collocated Soil Sampling
SL-004-SA3-SB

LLI Sample # SW 6462618
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Project Name: SSFL Area IV Collocated Soil Sampling

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SL049 SDG#: DE281-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	0.58	J	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,500		6.39	21.1		1
07914	Boron	7440-42-8	4.36	J	0.380	5.28		1
01650	Calcium	7440-70-2	1,500		2.64	21.1		1
01654	Iron	7439-89-6	19,200		2.75	21.1		1
01656	Lithium	7439-93-2	20.4		0.65	2.1		1
01657	Magnesium	7439-95-4	3,910		0.464	10.6		1
06958	Manganese	7439-96-5	320		0.0380	0.528		1
10145	Phosphorus	7723-14-0	127		0.369	10.6		1
01662	Potassium	7440-09-7	2,130		11.9	52.8		1
01667	Sodium	7440-23-5	117		6.28	106		1
07968	Strontium	7440-24-6	12.6		0.0264	0.528		1
06969	Tin	7440-31-5	3.00	J	0.338	10.6		1
06970	Titanium	7440-32-6	1,050		0.0749	1.06		1
10146	Zirconium	7440-67-7	2.33	J	0.486	5.28		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-004-SA3-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA3-SB

LLI Sample # SW 6462618
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 15:25

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL049 SDG#: DE281-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0773	U	0.0773	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.98		0.0836	0.418		2
06126	Barium	7440-39-3	55.2		0.111	0.418		2
06127	Beryllium	7440-41-7	0.518		0.0167	0.105		2
06128	Cadmium	7440-43-9	0.0460	U	0.0460	0.105		2
06131	Chromium	7440-47-3	17.3		0.125	0.418		2
06132	Cobalt	7440-48-4	5.27		0.0209	0.105		2
06133	Copper	7440-50-8	6.46		0.0836	0.418		2
06135	Lead	7439-92-1	5.53		0.0107	0.209		2
06138	Molybdenum	7439-98-7	0.350		0.0523	0.105		2
06139	Nickel	7440-02-0	8.49		0.105	0.418		2
06141	Selenium	7782-49-2	0.141	J	0.0606	0.418		2
06142	Silver	7440-22-4	0.0210	J	0.0148	0.105		2
06145	Thallium	7440-28-0	0.409		0.0314	0.105		2
06148	Vanadium	7440-62-2	35.5		0.0230	0.105		2
06149	Zinc	7440-66-6	55.7		0.585	3.14		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.86	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.25		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-004-SA3-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA3-SB

LLI Sample # SW 6462618
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 15:25

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL049 SDG#: DE281-03

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-004-SA3-SB-7.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11313SLF026	11/17/2011 05:44	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11318SLA026	11/26/2011 12:02	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11318SLB026	11/29/2011 11:58	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11313SLF026	11/10/2011 11:45	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11318SLB026	11/14/2011 18:10	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11318SLA026	11/14/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11313A16A	11/10/2011 00:12	Marie D John	27.53
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201131226126	11/08/2011 16:16	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201131226126	11/08/2011 16:17	Lois E Hiltz	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	113190001A	11/19/2011 02:50	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	113180003A	11/16/2011 15:16	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113150020A	11/16/2011 08:03	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113150020A	11/11/2011 16:00	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	113180003A	11/14/2011 14:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	113190001A	11/15/2011 14:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	113130024A	11/11/2011 00:49	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	113200029A	11/16/2011 22:04	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	113180012A	11/15/2011 15:12	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113190011A	11/17/2011 19:58	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	113190011A	11/15/2011 16:15	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	113180012A	11/14/2011 18:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	113130024A	11/10/2011 19:00	Lei Yin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	113200029A	11/16/2011 16:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	113125708003	11/10/2011 07:45	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113125708003	11/10/2011 07:45	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113125708003	11/10/2011 07:45	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113125708003	11/10/2011 07:45	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113125708003	11/10/2011 07:45	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113125708003	11/10/2011 07:45	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113125708003	11/10/2011 07:45	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113125708003	11/10/2011 07:45	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113125708003	11/10/2011 07:45	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113125708003	11/10/2011 07:45	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113125708003	11/10/2011 07:45	Tara L Snyder	1

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Sample Description: SL-004-SA3-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA3-SB

LLI Sample # SW 6462618
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 15:25

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14420 Albemarle Point Place
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SL049 SDG#: DE281-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	113125708003	11/10/2011 07:45	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113125708003	11/10/2011 07:45	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113125708003	11/10/2011 07:45	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113121026003A	11/16/2011 14:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113121026003A	11/16/2011 14:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113121026003D	11/16/2011 14:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113121026003A	11/16/2011 14:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113121026003A	11/16/2011 14:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113121026003A	11/16/2011 14:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113121026003A	11/16/2011 14:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113121026003A	11/16/2011 14:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113121026003A	11/16/2011 14:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113121026003C	11/16/2011 14:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113121026003A	11/16/2011 14:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113121026003B	11/19/2011 20:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113121026003A	11/16/2011 14:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113121026003A	11/16/2011 14:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113121026003A	11/16/2011 14:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113121026003A	11/16/2011 14:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113125711003	11/09/2011 17:33	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113125708003	11/09/2011 10:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113121026003	11/09/2011 11:35	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113125711003	11/09/2011 12:16	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11313621201A	11/09/2011 16:04	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11313621201A	11/09/2011 16:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11313621202A	11/09/2011 16:54	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11322243201A	11/19/2011 09:42	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11320102202A	11/17/2011 08:43	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11313621201A	11/09/2011 06:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11313621202A	11/09/2011 06:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11320102202A	11/16/2011 15:00	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11319039401A	11/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11322243201A	11/18/2011 08:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401A	12/01/2011 22:18	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-013-SA3-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA3-SB

LLI Sample # SW 6462619
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 13:35

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL130 SDG#: DE281-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	17.3	U	17.3	34.6		1
	The internal standard peak areas were outside of QC limits in the method blank and LCS associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	45	J	17	350		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-013-SA3-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA3-SB

LLI Sample # SW 6462619
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 13:35

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL130 SDG#: DE281-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.84	J	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.96	J	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.9		0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	J	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	8.2	J	6.2	19		1
10138	Chrysene	218-01-9	1.9		0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Fluoranthene	206-44-0	2.1		0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	J	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	1.2	J	0.69	1.7		1
10138	Pyrene	129-00-0	1.7	J	0.69	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	83	U	83	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	83	U	83	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	120	10000000	1

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Sample Description: SL-013-SA3-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA3-SB

LLI Sample # SW 6462619
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 13:35

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL130 SDG#: DE281-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	120	10000000	1
10132	Nitroglycerin	55-63-0	830	U	830	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	83	U	83	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	83	U	83	120	10000000	1
10132	PETN	78-11-5	830	U	830	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	120	10000000	1
10132	Tetryl	479-45-8	64	U	64	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	120	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	820	U	820	2,000		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.2	U	5.2	17		5
10225	Aroclor 5442	12642-23-8	5.2	U	5.2	17		5
10225	Aroclor 5460	11126-42-4	5.2	U	5.2	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.8		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.8		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.8		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.8		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.8		5
10225	PCB-1254	11097-69-1	1.7	U	1.7	8.8		5
10225	PCB-1260	11096-82-5	2.6	J	2.0	8.8		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.8		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.8		5
Reporting limits were raised due to interference from the sample matrix.								
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1

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Sample Description: SL-013-SA3-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA3-SB

LLI Sample # SW 6462619
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 13:35

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL130 SDG#: DE281-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.2		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.2		1
10199	EFH (C21-C30)	n.a.	5.9		0.42	1.2		1
10199	EFH (C30 - C40)	n.a.	20		0.42	1.2		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,400		6.10	20.2		1
07914	Boron	7440-42-8	5.19		0.363	5.04		1
01650	Calcium	7440-70-2	3,720		2.52	20.2		1
01654	Iron	7439-89-6	21,300		2.63	20.2		1
01656	Lithium	7439-93-2	22.2		0.63	2.0		1
01657	Magnesium	7439-95-4	4,920		0.444	10.1		1
06958	Manganese	7439-96-5	361		0.0363	0.504		1
10145	Phosphorus	7723-14-0	578		0.353	10.1		1
01662	Potassium	7440-09-7	3,730		11.4	50.4		1
01667	Sodium	7440-23-5	81.0	J	6.00	101		1
07968	Strontium	7440-24-6	23.2		0.0252	0.504		1
06969	Tin	7440-31-5	2.71	J	0.323	10.1		1
06970	Titanium	7440-32-6	1,130		0.0716	1.01		1
10146	Zirconium	7440-67-7	3.93	J	0.464	5.04		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.131	J	0.0753	0.204		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.06		0.0814	0.407		2
06126	Barium	7440-39-3	136		0.108	0.407		2
06127	Beryllium	7440-41-7	0.656		0.0163	0.102		2
06128	Cadmium	7440-43-9	0.276		0.0448	0.102		2
06131	Chromium	7440-47-3	27.4		0.122	0.407		2
06132	Cobalt	7440-48-4	8.62		0.0204	0.102		2
06133	Copper	7440-50-8	13.0		0.0814	0.407		2

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Sample Description: SL-013-SA3-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA3-SB

LLI Sample # SW 6462619
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 13:35

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL130 SDG#: DE281-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	14.1		0.0104	0.204		2
06138	Molybdenum	7439-98-7	0.514		0.0509	0.102		2
06139	Nickel	7440-02-0	17.4		0.102	0.407		2
06141	Selenium	7782-49-2	0.150	J	0.0590	0.407		2
06142	Silver	7440-22-4	0.695		0.0145	0.102		2
06145	Thallium	7440-28-0	0.310		0.0305	0.102		2
06148	Vanadium	7440-62-2	49.2		0.0224	0.102		2
06149	Zinc	7440-66-6	79.0		0.570	3.05		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0110	J	0.0071	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	5.1		0.84	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.95		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.7		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-013-SA3-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA3-SB

LLI Sample # SW 6462619
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 13:35

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL130 SDG#: DE281-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11313SLF026	11/17/2011 06:03	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11318SLA026	11/26/2011 12:28	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11318SLB026	11/29/2011 12:32	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11313SLF026	11/10/2011 11:45	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11318SLB026	11/14/2011 18:10	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11318SLA026	11/14/2011 18:30	Sally L Appleyard	1
10132	15a Energetics by 8330A	SW-846 8330A	1	113190001A	11/19/2011 03:32	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	113180003A	11/16/2011 15:25	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113150020A	11/16/2011 08:22	Jessica L Miller	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113150020A	11/11/2011 16:00	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	113180003A	11/14/2011 14:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	113190001A	11/15/2011 14:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	113130024A	11/11/2011 01:06	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	113200029A	11/16/2011 22:18	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	113180012A	11/15/2011 16:42	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113190011A	11/17/2011 22:22	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	113190011A	11/15/2011 16:15	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	113180012A	11/14/2011 18:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	113130024A	11/10/2011 19:00	Lei Yin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	113200029A	11/16/2011 16:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	113125708003	11/10/2011 07:49	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113125708003	11/10/2011 07:49	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113125708003	11/10/2011 07:49	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113125708003	11/10/2011 07:49	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113125708003	11/10/2011 07:49	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113125708003	11/10/2011 07:49	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113125708003	11/10/2011 07:49	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113125708003	11/10/2011 07:49	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113125708003	11/10/2011 07:49	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113125708003	11/10/2011 07:49	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113125708003	11/10/2011 07:49	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113125708003	11/10/2011 07:49	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113125708003	11/10/2011 07:49	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113125708003	11/10/2011 07:49	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113121026003A	11/16/2011 15:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113121026003A	11/16/2011 15:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113121026003D	11/16/2011 15:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113121026003A	11/16/2011 15:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113121026003A	11/16/2011 15:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113121026003A	11/16/2011 15:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113121026003A	11/16/2011 15:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113121026003A	11/16/2011 15:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113121026003A	11/16/2011 15:28	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-013-SA3-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA3-SB

LLI Sample # SW 6462619
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 13:35

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL130 SDG#: DE281-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	113121026003C	11/16/2011 15:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113121026003A	11/16/2011 15:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113121026003B	11/16/2011 15:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113121026003A	11/16/2011 15:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113121026003A	11/16/2011 15:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113121026003A	11/16/2011 15:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113121026003A	11/16/2011 15:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113125711003	11/09/2011 17:35	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113125708003	11/09/2011 10:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113121026003	11/09/2011 11:35	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113125711003	11/09/2011 12:16	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11313621201A	11/09/2011 16:19	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11313621201A	11/09/2011 16:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11313621202A	11/09/2011 17:15	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11322243201A	11/19/2011 10:02	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11320102202A	11/17/2011 08:44	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11313621201A	11/09/2011 06:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11313621202A	11/09/2011 06:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11320102202A	11/16/2011 15:00	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11319039401A	11/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11322243201A	11/18/2011 08:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401A	12/01/2011 22:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA3-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA3-SB

LLI Sample # SW 6462620
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 11:15

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL103 SDG#: DE281-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	175	U	175	349		10
	The internal standard peak areas were outside of QC limits in the method blank and LCS associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	20	J	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	70	U	70	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-010-SA3-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA3-SB

LLI Sample # SW 6462620
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 11:15

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL103 SDG#: DE281-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.96	J	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	J	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	7.3	J	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	9.8	J	6.3	19		1
10138	Chrysene	218-01-9	1.1	J	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	30		6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	1.3	J	0.70	1.7		1
10138	Pyrene	129-00-0	0.73	J	0.70	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		26.88
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-010-SA3-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA3-SB

LLI Sample # SW 6462620
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 11:15

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL103 SDG#: DE281-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	4,200		1,300	3,100		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	10	U	10	35		10
10225	Aroclor 5442	12642-23-8	10	U	10	35		10
10225	Aroclor 5460	11126-42-4	31	J	10	35		10
10225	PCB-1016	12674-11-2	3.5	U	3.5	18		10
10225	PCB-1221	11104-28-2	3.5	U	3.5	18		10
10225	PCB-1232	11141-16-5	3.5	U	3.5	18		10
10225	PCB-1242	53469-21-9	3.5	U	3.5	18		10
10225	PCB-1248	12672-29-6	3.5	U	3.5	18		10
10225	PCB-1254	11097-69-1	15	J	3.5	18		10
10225	PCB-1260	11096-82-5	33		4.1	18		10

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-010-SA3-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA3-SB

LLI Sample # SW 6462620
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 11:15

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL103 SDG#: DE281-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	3.5	U	3.5	18		10
10225	PCB-1268	11100-14-4	3.5	U	3.5	18		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.2	U	4.2	13		10
10199	EFH (C15-C20)	n.a.	4.2	U	4.2	13		10
10199	EFH (C21-C30)	n.a.	18		4.2	13		10
10199	EFH (C30 - C40)	n.a.	170		4.2	13		10
10199	EFH (C8-C11)	n.a.	4.2	U	4.2	13		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,500		6.34	21.0		1
07914	Boron	7440-42-8	3.35	J	0.377	5.24		1
01650	Calcium	7440-70-2	2,680		2.62	21.0		1
01654	Iron	7439-89-6	21,700		2.74	21.0		1
01656	Lithium	7439-93-2	24.9		0.65	2.1		1
01657	Magnesium	7439-95-4	5,120		0.461	10.5		1
06958	Manganese	7439-96-5	250		0.0377	0.524		1
10145	Phosphorus	7723-14-0	393		0.367	10.5		1
01662	Potassium	7440-09-7	3,350		11.8	52.4		1
01667	Sodium	7440-23-5	263		6.24	105		1
07968	Strontium	7440-24-6	15.1		0.0262	0.524		1
06969	Tin	7440-31-5	2.79	J	0.335	10.5		1
06970	Titanium	7440-32-6	1,150		0.0744	1.05		1
10146	Zirconium	7440-67-7	2.91	J	0.482	5.24		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.149	J	0.0753	0.204		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-010-SA3-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA3-SB

LLI Sample # SW 6462620
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 11:15

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL103 SDG#: DE281-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.73		0.0814	0.407		2
06126	Barium	7440-39-3	113		0.108	0.407		2
06127	Beryllium	7440-41-7	0.596		0.0163	0.102		2
06128	Cadmium	7440-43-9	0.501		0.0448	0.102		2
06131	Chromium	7440-47-3	26.9		0.122	0.407		2
06132	Cobalt	7440-48-4	7.54		0.0204	0.102		2
06133	Copper	7440-50-8	1,460		0.814	4.07		20
06135	Lead	7439-92-1	10.9		0.0104	0.204		2
06138	Molybdenum	7439-98-7	0.650		0.0509	0.102		2
06139	Nickel	7440-02-0	18.2		0.102	0.407		2
06141	Selenium	7782-49-2	0.172	J	0.0590	0.407		2
06142	Silver	7440-22-4	0.230		0.0145	0.102		2
06145	Thallium	7440-28-0	0.321		0.0305	0.102		2
06148	Vanadium	7440-62-2	45.8		0.0224	0.102		2
06149	Zinc	7440-66-6	76.5		0.570	3.05		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0143	J	0.0074	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.4		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.3		0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31	J	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.41		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-010-SA3-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA3-SB

LLI Sample # SW 6462620
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 11:15

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL103 SDG#: DE281-05

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-010-SA3-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11313SLF026	11/17/2011 06:41	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11318SLA026	11/27/2011 05:28	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11318SLB026	11/29/2011 13:08	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11313SLF026	11/10/2011 11:45	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11318SLB026	11/14/2011 18:10	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11318SLA026	11/14/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11313A16A	11/10/2011 00:50	Marie D John	26.88
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201131226126	11/08/2011 16:18	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201131226126	11/08/2011 16:19	Lois E Hiltz	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	113190001A	11/19/2011 04:14	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	113180003A	11/16/2011 15:35	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113150020A	11/16/2011 08:40	Jessica L Miller	10
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113150020A	11/11/2011 16:00	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	113180003A	11/14/2011 14:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	113190001A	11/15/2011 14:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	113130024A	11/11/2011 01:22	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	113200029A	11/16/2011 22:33	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	113180012A	11/15/2011 17:26	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113190011A	11/17/2011 23:10	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	113190011A	11/15/2011 16:15	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	113180012A	11/14/2011 18:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	113130024A	11/10/2011 19:00	Lei Yin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	113200029A	11/16/2011 16:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	113125708003	11/10/2011 07:53	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113125708003	11/10/2011 07:53	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113125708003	11/10/2011 07:53	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113125708003	11/10/2011 07:53	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113125708003	11/10/2011 07:53	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113125708003	11/10/2011 07:53	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113125708003	11/10/2011 07:53	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113125708003	11/10/2011 07:53	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113125708003	11/10/2011 07:53	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113125708003	11/10/2011 07:53	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113125708003	11/10/2011 07:53	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-010-SA3-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA3-SB

LLI Sample # SW 6462620
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 11:15

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL103 SDG#: DE281-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	113125708003	11/10/2011 07:53	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113125708003	11/10/2011 07:53	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113125708003	11/10/2011 07:53	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113121026003A	11/16/2011 15:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113121026003A	11/16/2011 15:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113121026003D	11/16/2011 15:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113121026003A	11/16/2011 15:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113121026003A	11/16/2011 15:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113121026003A	11/16/2011 15:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113121026003A	11/16/2011 15:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113121026003A	11/19/2011 20:42	Choon Y Tian	20
06135	Lead	SW-846 6020	1	113121026003A	11/16/2011 15:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113121026003C	11/16/2011 15:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113121026003A	11/16/2011 15:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113121026003B	11/16/2011 15:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113121026003A	11/16/2011 15:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113121026003A	11/16/2011 15:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113121026003A	11/16/2011 15:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113121026003A	11/16/2011 15:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113125711003	11/09/2011 17:36	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113125708003	11/09/2011 10:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113121026003	11/09/2011 11:35	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113125711003	11/09/2011 12:16	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11313621201A	11/09/2011 16:34	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11313621201A	11/09/2011 16:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11313621202A	11/09/2011 17:37	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11322243201A	11/19/2011 10:09	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11320102202A	11/17/2011 08:46	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11313621201A	11/09/2011 06:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11313621202A	11/09/2011 06:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11320102202A	11/16/2011 15:00	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11319039401A	11/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11322243201A	11/18/2011 08:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401A	12/01/2011 22:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA3-SB-110711 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA3-SB

LLI Sample # WW 6462621
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 14:00

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB117 SDG#: DE281-06EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l	ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	2.25	0.538	1.08		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11316WAD026	11/17/2011 07:20	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11316WAD026	11/14/2011 05:30	David V Hershey Jr	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-110711 Sand
SSFL Area IV Collocated Soil Sampling
TB

LLI Sample # SW 6462622
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 08:00

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TBS07 SDG#: DE281-07TB

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	16.7	U	16.7	33.3		1
	The internal standard peak areas were outside of QC limits in the method blank and LCS associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11313SLF026	11/17/2011 07:00	Matthew S Woods	1
11630	NDMA Soil Microwave	SW-846 3546	1	11313SLF026	11/10/2011 11:45	Kelli M Barto	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11315162401B	11/11/2011 22:24	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-110711 Water
SSFL Area IV Collocated Soil Sampling
TB

LLI Sample # WW 6462623
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 08:00

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TBV07 SDG#: DE281-08TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11313A20A	11/09/2011	14:21	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11313A20A	11/09/2011	14:21	Marie D John	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-110711 Water
SSFL Area IV Collocated Soil Sampling
TB

LLI Sample # WW 6462624
LLI Group # 1275265
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/07/2011 08:00

Submitted: 11/08/2011 09:20
Reported: 12/05/2011 13:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TBN07 SDG#: DE281-09TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l	ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	0.478 U	0.478	0.956		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11316WAD026	11/17/2011 07:39	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11316WAD026	11/14/2011 05:30	David V Hershey Jr	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1275265
Reported: 12/05/11 at 01:13 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11313SLF026	Sample number(s): 6462617-6462620,6462622									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	89		70-130		
Batch number: 11316WAD026	Sample number(s): 6462621,6462624									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	97	91	70-130	6	30
Batch number: 11318SLA026	Sample number(s): 6462616-6462620									
Aniline	170 U		170.	500	ug/kg	71		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	50		15-121		
Benzoic acid	170 U		170.	500	ug/kg	82		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	89		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	95		73-114		
Carbazole	17	U	17.	170	ug/kg	92		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	96		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	40		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	93		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	90		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	93		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	95		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	94		74-115		
Dibenzofuran	17	U	17.	170	ug/kg	91		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	84		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	85		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	38		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	95		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	95		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	94		83-120		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	71		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	50		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	95		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	98		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	95		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	87		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	95		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	87		65-117		
Hexachlorocyclopentadiene	170		170.	500	ug/kg	79		46-115		

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1275265
Reported: 12/05/11 at 01:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	U									
Hexachloroethane	17	U	17.	170	ug/kg	81		61-109		
Isophorone	17	U	17.	170	ug/kg	92		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	96		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	94		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	91		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	89		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	70		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	91		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	88		76-111		
4-Nitrophenol	170		170.	500	ug/kg	80		56-118		
	U									
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	84		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	97		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	101		62-137		
Pentachlorophenol	170		170.	500	ug/kg	85		51-117		
	U									
Phenol	17	U	17.	170	ug/kg	98		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	92		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	94		78-111		
Batch number: 11318SLB026	Sample number(s): 6462616-6462620									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	97		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	99		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	100		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	99		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	101		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	107		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	100		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	105		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	123		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	101		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	105		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	117		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	109		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	119		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	102		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	105		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	105		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	96		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	90		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	96		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	97		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	97		72-119		
Batch number: 11313A16A	Sample number(s): 6462617-6462618,6462620									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	78	87	67-119	10	30
Batch number: 11313A20A	Sample number(s): 6462623									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	100	75-135	9	30
Batch number: 113190001A	Sample number(s): 6462617-6462620									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	107		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	106		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1275265
Reported: 12/05/11 at 01:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	96	90	54-134	6	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	96	90	54-134	6	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	110		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	102		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	103		80-120		
HMX	100 U		100.	300	ug/kg	91		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	94		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	96		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	102		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	106		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	99		80-120		
PETN	800 U		800.	2,400	ug/kg	104		80-120		
RDX	50	U	50.	120	ug/kg	103		75-131		
Tetryl	61	U	61.	120	ug/kg	130		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	104		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
Batch number: 113180003A	Sample number(s): 6462617-6462620									
20a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	99		80-126		
Batch number: 113150020A	Sample number(s): 6462616-6462620									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	71	71	36-106	0	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	79		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	86		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 113130024A	Sample number(s): 6462617-6462620									
Ethanol	100 U		100.	500	ug/kg	100		71-129		
Isopropanol	100 U		100.	500	ug/kg	96		75-125		
Methanol	100 U		100.	500	ug/kg	102		68-129		
Batch number: 113200029A	Sample number(s): 6462617-6462620									
Diethylene glycol	5.0	U	5.0	10	mg/kg	100		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	106		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	99		67-131		
Batch number: 113180012A	Sample number(s): 6462617-6462620									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	99		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		69-109		
Batch number: 113190011A	Sample number(s): 6462617-6462620									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1275265
Reported: 12/05/11 at 01:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	101		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	108		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	105		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	115		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	89		49-107		
Batch number: 113121026003A	Sample number(s): 6462616-6462620									
Antimony	0.0725	U	0.0725	0.196	mg/kg	72		40-227		
Arsenic	0.0784	U	0.0784	0.392	mg/kg	101		83-111		
Beryllium	0.0157	U	0.0157	0.0980	mg/kg	100		84-112		
Cadmium	0.0431	U	0.0431	0.0980	mg/kg	101		83-111		
Chromium	0.118	U	0.118	0.392	mg/kg	104		77-123		
Cobalt	0.0196	U	0.0196	0.0980	mg/kg	99		85-114		
Copper	0.0784	U	0.0784	0.392	mg/kg	97		81-110		
Lead	0.0307	J	0.0100	0.196	mg/kg	99		84-112		
Nickel	0.0980	U	0.0980	0.392	mg/kg	101		81-110		
Silver	0.0139	U	0.0139	0.0980	mg/kg	100		83-112		
Thallium	0.0294	U	0.0294	0.0980	mg/kg	103		82-112		
Vanadium	0.0216	U	0.0216	0.0980	mg/kg	95		76-110		
Zinc	0.549	U	0.549	2.94	mg/kg	101		82-110		
Batch number: 113121026003B	Sample number(s): 6462616-6462620									
Selenium	0.0569	U	0.0569	0.392	mg/kg	95		79-110		
Batch number: 113121026003C	Sample number(s): 6462616-6462620									
Molybdenum	0.0490	U	0.0490	0.0980	mg/kg	102		80-110		
Batch number: 113121026003D	Sample number(s): 6462616-6462620									
Barium	0.104	U	0.104	0.392	mg/kg	101		83-110		
Batch number: 113125708003	Sample number(s): 6462616-6462620									
Aluminum	5.99	U	5.99	19.8	mg/kg	82		40-127		
Boron	0.356	U	0.356	4.95	mg/kg	98		83-110		
Calcium	4.28	J	2.48	19.8	mg/kg	96		81-110		
Iron	2.99	J	2.58	19.8	mg/kg	84		47-129		
Lithium	0.61	U	0.61	2.0	mg/kg	99		80-120		
Magnesium	0.884	J	0.436	9.90	mg/kg	87		63-116		
Manganese	0.0356	U	0.0356	0.495	mg/kg	98		85-116		
Phosphorus	1.18	J	0.347	9.90	mg/kg	102		80-120		
Potassium	11.2	U	11.2	49.5	mg/kg	96		71-110		
Sodium	5.89	U	5.89	99.0	mg/kg	98		76-110		
Strontium	0.0248	U	0.0248	0.495	mg/kg	96		84-110		
Tin	1.51	J	0.317	9.90	mg/kg	94		86-120		
Titanium	0.0703	U	0.0703	0.990	mg/kg	82		80-120		
Zirconium	0.455	U	0.455	4.95	mg/kg	101		80-120		
Batch number: 113125711003	Sample number(s): 6462616-6462620									
Mercury	0.0069	U	0.0069	0.0976	mg/kg	84		83-119		
Batch number: 11313621201A	Sample number(s): 6462616-6462620									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	106		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	107		90-110		
Batch number: 11313621202A	Sample number(s): 6462616-6462620									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11320102202A	Sample number(s): 6462617-6462620									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	92		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1275265
Reported: 12/05/11 at 01:13 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11322243201A	Sample number(s): 6462616-6462620								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	85		80-120		
Batch number: 11319039401A	Sample number(s): 6462616-6462620								
17a pH by 9045C					100		95-105		
Batch number: 11315162401B	Sample number(s): 6462616,6462622								
Moisture Content by 160.3					100		80-120		
Batch number: 11335162401A	Sample number(s): 6462617-6462620								
Moisture Content by 160.3					99		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11313SLF026	Sample number(s): 6462617-6462620,6462622 UNSPK: P457188								
N-Nitrosodimethylamine	84	83	70-130	1	30				
Batch number: 11318SLA026	Sample number(s): 6462616-6462620 UNSPK: P461454								
Aniline	53	73	18-116	32*	30				
Benzidine	0*	0*	35-141	0	30				
Benzoic acid	42	50	10-173	18	30				
Benzyl alcohol	89	98	67-115	9	30				
4-Bromophenyl-phenylether	91	100	67-129	10	30				
Carbazole	87	96	64-120	10	30				
4-Chloro-3-methylphenol	92	100	62-122	8	30				
4-Chloroaniline	37	68	13-107	58*	30				
bis(2-Chloroethoxy)methane	86	96	75-104	10	30				
bis(2-Chloroethyl)ether	83	92	60-116	10	30				
bis(2-Chloroisopropyl)ether	87	96	55-142	9	30				
2-Chloronaphthalene	88	93	50-141	6	30				
2-Chlorophenol	94	104	73-121	10	30				
4-Chlorophenyl-phenylether	91	99	80-109	9	30				
Dibenzofuran	88	96	71-112	8	30				
1,2-Dichlorobenzene	83	88	66-108	6	30				
1,3-Dichlorobenzene	80	87	63-109	8	30				
1,4-Dichlorobenzene	82	88	58-108	7	30				
3,3'-Dichlorobenzidine	46	64	28-109	33*	30				
2,4-Dichlorophenol	93	104	66-123	10	30				
Diethylphthalate	90	98	66-118	8	30				
2,4-Dimethylphenol	91	100	68-118	9	30				
3,5-Dimethylphenol	88	97	71-127	9	30				
4,6-Dinitro-2-methylphenol	52	60	11-126	14	30				
2,4-Dinitrophenol	30	34	20-143	14	30				
2,4-Dinitrotoluene	90	97	56-129	7	30				
2,6-Dinitrotoluene	93	101	69-123	9	30				
1,2-Diphenylhydrazine	91	103	71-129	12	30				
bis(2-Ethylhexyl)phthalate	85	95	63-122	11	30				
Hexachlorobenzene	90	102	77-114	12	30				

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1275265
Reported: 12/05/11 at 01:13 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Hexachlorobutadiene	84	91	62-120	8	30				
Hexachlorocyclopentadiene	76	86	10-153	12	30				
Hexachloroethane	79	85	57-109	7	30				
Isophorone	86	94	73-102	9	30				
2-Methylphenol	93	104	75-111	11	30				
4-Methylphenol	92	102	59-123	10	30				
2-Nitroaniline	90	99	67-125	10	30				
3-Nitroaniline	84	95	59-122	12	30				
4-Nitroaniline	65	79	41-109	19	30				
Nitrobenzene	86	94	57-125	8	30				
2-Nitrophenol	88	96	56-127	9	30				
4-Nitrophenol	77	85	37-129	9	30				
N-Nitroso-di-n-propylamine	81	89	60-116	10	30				
N-Nitrosodiphenylamine	91	102	71-122	11	30				
Di-n-octylphthalate	107	120	56-126	12	30				
Pentachlorophenol	70	75	28-127	6	30				
Phenol	94	104	58-126	10	30				
1,2,4-Trichlorobenzene	85	92	72-115	8	30				
2,4,5-Trichlorophenol	90	100	58-129	10	30				
2,4,6-Trichlorophenol	93	102	56-134	9	30				
Batch number: 11318SLB026	Sample number(s): 6462616-6462620 UNSPK: 6462616								
Acenaphthene	97	93	63-105	4	30				
Acenaphthylene	96	96	67-114	0	30				
Anthracene	96	99	73-115	3	30				
Benzo(a)anthracene	98	100	59-128	2	30				
Benzo(a)pyrene	96	97	58-142	1	30				
Benzo(b)fluoranthene	116	117	54-163	1	30				
Benzo(g,h,i)perylene	77	77	33-141	0	30				
Benzo(k)fluoranthene	91	91	57-153	0	30				
Butylbenzylphthalate	105	110	57-173	5	30				
Di-n-butylphthalate	105	108	65-148	2	30				
Chrysene	92	95	67-123	3	30				
Dibenz(a,h)anthracene	86	87	22-133	0	30				
Diethylphthalate	110	113	70-136	2	30				
Dimethylphthalate	100	104	74-118	4	30				
Bis(2-Ethylhexyl)phthalate	64	71	39-167	5	30				
Fluoranthene	101	103	51-149	2	30				
Fluorene	98	98	66-122	1	30				
Indeno(1,2,3-cd)pyrene	84	84	21-143	0	30				
1-Methylnaphthalene	92	92	72-123	1	30				
2-Methylnaphthalene	90	91	64-103	1	30				
Naphthalene	93	94	61-102	2	30				
N-Nitrosodimethylamine	86	84	48-113	3	30				
Di-n-octylphthalate	98	98	40-192	0	30				
Phenanthrene	93	96	62-122	3	30				
Pyrene	89	92	51-131	3	30				
Batch number: 113190001A	Sample number(s): 6462617-6462620 UNSPK: 6462617								
4-Amino-2,6-Dinitrotoluene	79*	92	80-127	15	50				
2-Amino-4,6-Dinitrotoluene	76*	88	80-137	15	50				
1,3-Dinitrobenzene	83	93	38-166	11	50				
2,4-Dinitrotoluene	76*	86	80-131	13	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1275265
Reported: 12/05/11 at 01:13 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,6-Dinitrotoluene	78*	89	80-127	13	50				
HMX	63	76	63-128	19	50				
Nitrobenzene	80	81	80-125	0	50				
Nitroglycerin	73*	84	80-120	15	50				
2-Nitrotoluene	79*	87	80-122	9	50				
3-Nitrotoluene	83	92	72-119	10	50				
4-Nitrotoluene	78*	85	80-125	9	50				
PETN	75*	89	80-121	18	50				
RDX	70*	83	75-129	16	50				
Tetryl	75	104	55-174	33	50				
1,3,5-Trinitrobenzene	74*	86	82-126	15	50				
2,4,6-Trinitrotoluene	79*	91	82-130	14	50				
Batch number: 113180003A	Sample number(s): 6462617-6462620 UNSPK: 6462617								
20a Formaldehyde 8315A	98	94	80-120	4	50				
Batch number: 113150020A	Sample number(s): 6462616-6462620 UNSPK: P465418								
PCB-1016	74	79	29-146	7	50				
PCB-1260	85	94	39-149	10	50				
Batch number: 113130024A	Sample number(s): 6462617-6462620 UNSPK: 6462617								
Ethanol	98	48	48-130	68*	20				
Isopropanol	94	41	12-149	78*	20				
Methanol	98	47	43-138	70*	20				
Batch number: 113200029A	Sample number(s): 6462617-6462620 UNSPK: P461456								
Diethylene glycol	23*	22*	59-109	4	20				
Ethylene glycol	64	65	63-107	1	20				
Propylene glycol	73	73	63-107	1	20				
Batch number: 113180012A	Sample number(s): 6462617-6462620 UNSPK: P461454								
m-Terphenyl	101	100	75-125	1	20				
o-Terphenyl	102	101	75-125	1	20				
p-Terphenyl	101	100	75-125	1	20				
Batch number: 113190011A	Sample number(s): 6462617-6462620 UNSPK: 6462617								
EFH (C12-C14)	85	98	49-123	14	20				
EFH (C15-C20)	99	108	49-123	8	20				
EFH (C21-C30)	102	111	49-123	9	20				
EFH (C30 - C40)	73	86	49-123	11	20				
EFH (C8-C11)	71	79	49-123	10	20				
Batch number: 113121026003A	Sample number(s): 6462616-6462620 UNSPK: 6462618 BKG: 6462618								
Antimony	49*	46*	75-125	11	20	0.0725 U	0.0740 U	0 (1)	20
Arsenic	117	117	75-125	1	20	5.61	6.29	11	20
Beryllium	102	142*	75-125	19	20	0.486	0.668	32* (1)	20
Cadmium	133*	120	75-125	14	20	0.0431 U	0.0440 U	0 (1)	20
Chromium	123	122	75-125	2	20	16.2	18.9	15	20
Cobalt	125	123	75-125	5	20	4.94	6.27	24*	20
Copper	123	117	75-125	6	20	6.06	7.36	19	20
Lead	141*	128*	75-125	6	20	5.19	6.06	16	20
Nickel	132*	124	75-125	6	20	7.96	8.93	11	20
Silver	133*	122	75-125	12	20	0.0197 J	0.0186 J	6 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1275265
Reported: 12/05/11 at 01:13 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Thallium	123	110	75-125	8	20	0.384	0.375	2 (1)	20
Vanadium	127*	131*	75-125	0	20	33.3	38.7	15	20
Zinc	171 (2)	107 (2)	75-125	10	20	52.3	60.9	15	20
Batch number: 113121026003B	Sample number(s): 6462616-6462620 UNSPK: 6462618 BKG: 6462618								
Selenium	83	85	75-125	1	20	0.132 J	0.158 J	18 (1)	20
Batch number: 113121026003C	Sample number(s): 6462616-6462620 UNSPK: 6462618 BKG: 6462618								
Molybdenum	124	119	75-125	8	20	0.328	0.346	5 (1)	20
Batch number: 113121026003D	Sample number(s): 6462616-6462620 UNSPK: 6462618 BKG: 6462618								
Barium	171 (2)	158 (2)	75-125	3	20	51.7	61.2	17	20
Batch number: 113125708003	Sample number(s): 6462616-6462620 UNSPK: 6462616 BKG: 6462616								
Aluminum	2025 (2)	1242 (2)	75-125	10	20	11,800	11,600	1	20
Boron	96	97	84-115	1	20	3.38 J	2.86 J	17 (1)	20
Calcium	173*	119	75-125	13	20	1,040	1,080	4	20
Iron	2906 (2)	-415 (2)	75-125	18	20	16,800	16,300	3	20
Lithium	98	97	82-114	1	20	22.6	21.2	6	20
Magnesium	430 (2)	117 (2)	75-125	18	20	2,750	2,730	1	20
Manganese	90	113	75-125	5	20	188	178	5	20
Phosphorus	123	90	75-125	10	20	219	216	1	20
Potassium	133*	86	75-125	11	20	3,080	2,810	9	20
Sodium	99	97	75-125	1	20	86.6 J	85.3 J	1 (1)	20
Strontium	100	99	75-115	1	20	10.5	10.9	4	20
Tin	87	88	80-110	1	20	2.58 J	2.53 J	2 (1)	20
Titanium	168 (2)	99 (2)	75-125	6	20	937	871	7	20
Zirconium	94	95	81-110	1	20	2.12 J	2.87 J	30* (1)	20
Batch number: 113125711003	Sample number(s): 6462616-6462620 UNSPK: 6462620 BKG: 6462620								
Mercury	92	91	65-135	1	20	0.0136 J	0.0138 J	1 (1)	20
Batch number: 11313621201A	Sample number(s): 6462616-6462620 UNSPK: 6462616 BKG: 6462616								
11a Anions by 300.0 - Fluoride	88		80-120			0.80 U	1.3	200* (1)	20
11a Anions by 300.0 - Nitrate	91		80-120			2.0	2.1	1 (1)	20
Batch number: 11313621202A	Sample number(s): 6462616-6462620 UNSPK: P461454 BKG: P461454								
7a Perchlorate EPA 314.0	103		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11320102202A	Sample number(s): 6462617-6462620 UNSPK: 6462617 BKG: 6462617								
16a Cyanide by 9012B	100		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11322243201A	Sample number(s): 6462616-6462620 UNSPK: P465418 BKG: P465418								
3a Cr VI by EPA 7199	95		75-125			0.20 U	0.69 J	200* (1)	20
Batch number: 11319039401A	Sample number(s): 6462616-6462620 BKG: P461454								
17a pH by 9045C						8.53	8.53	0	3
Batch number: 11315162401B	Sample number(s): 6462616,6462622 BKG: P463912								
Moisture Content by 160.3						0.50 U	0.50 U	0 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1275265
Reported: 12/05/11 at 01:13 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11335162401A	Sample number(s): 6462617-6462620					BKG: 6462618			
Moisture Content by 160.3						6.2	5.9	4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21a NDMA by 1625C
Batch number: 11313SLF026

	N-Nitrosodimethylamine-d6
6462617	135
6462618	138
6462619	113
6462620	120
6462622	119
Blank	136
LCS	148
MS	133
MSD	138
Limits:	50-150

Analysis Name: 21b. NDMA in Water
Batch number: 11316WAD026

	N-Nitrosodimethylamine-d6
6462621	124
6462624	117
Blank	137
LCS	134
LCSD	140
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11318SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6462616	101	102	83	85	93	87
6462617	98	99	84	85	90	90
6462618	100	102	84	88	93	90
6462619	96	99	91	84	91	89
6462620	89	94	88	84	92	87
Blank	92	95	87	85	91	87
LCS	95	97	89	85	87	84
MS	99	102	92	86	91	86

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1275265
Reported: 12/05/11 at 01:13 PM

Surrogate Quality Control

MSD	102	104	94	87	93	88
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11318SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6462616	100	92	98
6462617	97	88	94
6462618	101	92	114
6462619	100	90	94
6462620	106	94	109
Blank	114	105	118
LCS	104	94	99
MS	98	90	96
MSD	103	91	104
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11313A16A

	Trifluorotoluene-F
6462617	86
6462618	95
6462620	95
Blank	97
LCS	84
LCSD	93
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11313A20A

	Trifluorotoluene-F
6462623	93
Blank	93
LCS	120
LCSD	119
Limits:	63-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 113150020A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6462616	104	87
6462617	99	85
6462618	104	90
6462619	94	99
6462620	100	114
Blank	90	97
LCS	89	96
LCSD	96	102
MS	85	88

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1275265
Reported: 12/05/11 at 01:13 PM

Surrogate Quality Control

MSD	93	99
Limits:	53-139	45-120

Analysis Name: 20a Formaldehyde 8315A
Batch number: 113180003A

	Butyraldehyde
6462617	77
6462618	79
6462619	90
6462620	73
Blank	95
LCS	85
MS	80
MSD	79
Limits:	64-126

Analysis Name: 15a Energetics by 8330A
Batch number: 113190001A

	2-Nitro-m-xylene
6462617	101
6462618	106
6462619	85
6462620	93
Blank	105
LCS	104
LCSD	103
MS	86
MSD	86
Limits:	80-146

Analysis Name: 18a Alcohols by 8015B
Batch number: 113130024A

	Acetone
6462617	83
6462618	80
6462619	82
6462620	81
Blank	84
LCS	86
MS	4*
MSD	22*
Limits:	42-138

Analysis Name: 22a Terphenyls by 8015B
Batch number: 113180012A

	n-Triacontane-d62
6462617	75
6462618	77
6462619	78

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1275265
Reported: 12/05/11 at 01:13 PM

Surrogate Quality Control

6462620	83
Blank	79
LCS	76
MS	78
MSD	78
Limits:	19-152

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 113190011A

	Chlorobenzene	Orthoterphenyl
6462617	69	84
6462618	68	83
6462619	70	87
6462620	80	97
Blank	71	89
LCS	78	94
MS	68	85
MSD	68	87
Limits:	37-125	47-145

Analysis Name: 19a Glycols by 8015B
Batch number: 113200029A

	Tetramethylene glycol
6462617	91
6462618	93
6462619	87
6462620	91
Blank	102
LCS	102
MS	91
MSD	92
Limits:	29-137

*- Outside of specification
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13013 1275265 6462616-24

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-001-SA3-SB-2.0-3.0	11.07.11	0925	SOIL	NONE	1-SS Sleeve			X	X																	
SL-001-SA3-SB-2.0-3.0	11.07.11	0925	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X													
SL-004-SA3-SB-4.5	11.07.11	1455	SOIL	NONE	2-Encores										X											
SL-004-SA3-SB-4.0-5.0	11.07.11	1450	SOIL	NONE	1-SS Sleeve			X	X																	
SL-004-SA3-SB-4.0-5.0	11.07.11	1450	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-004-SA3-SB-9.5	11.07.11	1530	SOIL	NONE	2-Encores										X											
SL-004-SA3-SB-9.0-10.0	11.07.11	1525	SOIL	NONE	1-SS Sleeve			X	X																	
SL-004-SA3-SB-9.0-10.0	11.07.11	1525	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-013-SA3-SB-0.5-1.5	11.07.11	1335	SOIL	NONE	1-SS Sleeve			X	X																	
SL-013-SA3-SB-0.5-1.5	11.07.11	1335	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-010-SA3-SB-3.5	11.07.11	1120	SOIL	NONE	2-Encores										X											
SL-010-SA3-SB-3.0-4.0	11.07.11	1115	SOIL	NONE	1-SS Sleeve			X	X																	
SL-010-SA3-SB-3.0-4.0	11.07.11	1115	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
EB-SA7-SB-110711	11.07.11	1400	WATER	NONE	1-1 L amber														X							
TB-110711	11.07.11	0800	SOIL	NONE	1-4 oz jar														X							
TB-110711	11.07.11	0800	WATER	NONE	2-40 mL Vials										X											
TB-110711	11.07.11	0800	WATER	NONE	1-1 L amber														X							

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	11/07/2011 / 1630	LLI 11/8/11 0920	Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
		87679857 4890	

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Tuesday, November 08, 2011 12:50 PM
To: Nicole Maljovec
Subject: RE: SSFL COC 11/07/11: ID Discrepancies

The depth on the labels is correct, please use 7.0-8.0

The EB should be EB-SA3-SB-110711

Thanks!

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Tuesday, November 08, 2011 9:44 AM
To: Hartman, Pamela
Subject: FW: SSFL COC 11/07/11: ID Discrepancies

Hi Pam,
I have two quick questions for you.

1. Sample SL-004-SA3-SB-9.0-10.0 have a depth of 7.0-8.0 on the labels. Which should we use?

2. EB-SA7-SB-110711 has SA3 on the labels. Which should we use?

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Monday, November 07, 2011 7:02 PM
To: Bloisa, Peggy; Burgesser, Todd; 'Laura Rainey'; Nicole Maljovec; SA Env Entry; Zakowski, Cherie; TWallbom@dtsc.ca.gov
Subject: SSFL COC 11/07/11

Subsurface sampling continued in SA3 today with one hand auger crew.
Please see attached COC.

Thanks,

Pam

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If you wish to view information about Lancaster Laboratories, Inc., please visit our website at www.lancasterlabs.com

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Appendix B
Laboratory Reports
(On CD)

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 17, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/12/2011
Group Number: 1255672
SDG: DE197
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-149-SA5DN-SB-4.0-5.0 Soil	6340788
SL-199-SA5DN-SB-4.0-5.0 Soil	6340789
SL-199-SA5DN-SB-9.0-10.0 Soil	6340790
SL-135-SA6-SB-4.0-5.0 Soil	6340791
SL-138-SA6-SB-4.0-5.0 Soil	6340792
SL-138-SA6-SB-9.0-10.0 Soil	6340793
TB-070911 Water	6340794
SL-149-SA6-SS-0.0-0.5 Soil	6340795
SL-297-SA6-SS-0.0-0.5 Soil	6340796
SL-297-SA6-SS-0.0-0.5MS Soil	6340797
SL-297-SA6-SS-0.0-0.5MSD Soil	6340798
SL-297-SA6-SS-0.0-0.5DUP Soil	6340799
SL-292-SA6-SS-0.0-0.5 Soil	6340800
SL-298-SA6-SS-0.0-0.5 Soil	6340801
DUP01-SA6-QC-071111 Soil	6340802

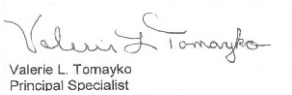
The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Valerie L. Tomayko
Principal Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-149-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA5DN-SB-4.0-5.0

LLI Sample # SW 6340788
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 08:15

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45149 SDG#: DE197-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	14		7.3	8.7	0.99
06192	Benzene	71-43-2	0.11	U	0.11	4.4	0.99
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4	0.99
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4	0.99
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4	0.99
06192	Bromoform	75-25-2	0.44	U	0.44	4.4	0.99
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4	0.99
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7	0.99
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4	0.99
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4	0.99
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.4	0.99
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4	0.99
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4	0.99
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4	0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4	0.99
06192	Chloroform	67-66-3	0.13	U	0.13	4.4	0.99
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4	0.99
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4	0.99
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4	0.99
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4	0.99
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.4	0.99
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4	0.99
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4	0.99
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4	0.99
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4	0.99
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4	0.99
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.4	0.99
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4	0.99
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4	0.99
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4	0.99
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.4	0.99
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4	0.99
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4	0.99
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4	0.99
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4	0.99
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4	0.99
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4	0.99
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.4	0.99
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4	0.99
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4	0.99
06192	Freon 113	76-13-1	0.12	U	0.12	4.4	0.99
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4	0.99
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4	0.99
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7	0.99
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4	0.99
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4	0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4	0.99
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.7	0.99
06192	Methylene Chloride	75-09-2	6.9		0.26	4.4	0.99
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4	0.99

*=This limit was used in the evaluation of the final result

Sample Description: SL-149-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA5DN-SB-4.0-5.0

LLI Sample # SW 6340788
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 08:15

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45149 SDG#: DE197-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4	0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4	0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4	0.99
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4	0.99
06192	Toluene	108-88-3	0.1	J	0.09	4.4	0.99
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4	0.99
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4	0.99
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4	0.99
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.4	0.99
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4	0.99
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4	0.99
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4	0.99
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4	0.99
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4	0.99
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4	0.99
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4	0.99
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4	0.99
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.						
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	17	25.1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-149-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA5DN-SB-4.0-5.0

LLI Sample # SW 6340788
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 08:15

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45149 SDG#: DE197-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.4	J	6.5	20	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-149-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA5DN-SB-4.0-5.0

LLI Sample # SW 6340788
LLI Group # 1255672
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 08:15

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45149 SDG#: DE197-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(a)pyrene						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,300		6.51	21.5	1
07914	Boron	7440-42-8	7.53	J	1.94	26.9	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	4,770		2.69	21.5	1
01654	Iron	7439-89-6	31,000		14.0	108	5
01656	Lithium	7439-93-2	35.0		0.67	2.2	1
01657	Magnesium	7439-95-4	6,740		0.474	10.8	1
06958	Manganese	7439-96-5	457		0.0387	0.538	1
10145	Phosphorus	7723-14-0	277		0.377	10.8	1
01662	Potassium	7440-09-7	3,450		12.2	53.8	1
01667	Sodium	7440-23-5	127		6.40	108	1
07968	Strontium	7440-24-6	33.1		0.0269	0.538	1
06969	Tin	7440-31-5	3.41	J	0.344	10.8	1
06970	Titanium	7440-32-6	1,210		0.0749	1.06	1
10146	Zirconium	7440-67-7	6.99		0.495	5.38	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.337		0.0774	0.209	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-149-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA5DN-SB-4.0-5.0

LLI Sample # SW 6340788
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 08:15

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45149 SDG#: DE197-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	13.1		0.0836	0.418	2
06126	Barium	7440-39-3	149		0.111	0.418	2
06127	Beryllium	7440-41-7	0.978		0.0167	0.105	2
06128	Cadmium	7440-43-9	0.262		0.0460	0.105	2
06131	Chromium	7440-47-3	38.1		0.125	0.418	2
06132	Cobalt	7440-48-4	11.0		0.0209	0.105	2
06133	Copper	7440-50-8	12.3		0.0836	0.418	2
06135	Lead	7439-92-1	9.93		0.0107	0.209	2
06138	Molybdenum	7439-98-7	0.675		0.0523	0.105	2
06139	Nickel	7440-02-0	24.4		0.105	0.418	2
06141	Selenium	7782-49-2	0.133	J	0.0606	0.418	2
06142	Silver	7440-22-4	0.0646	J	0.0148	0.105	2
06145	Thallium	7440-28-0	0.305		0.0314	0.105	2
06148	Vanadium	7440-62-2	72.4		0.0230	0.105	2
06149	Zinc	7440-66-6	65.9		0.585	3.14	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076	U	0.0076	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.38		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.9		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-149-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA5DN-SB-4.0-5.0

LLI Sample # SW 6340788
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 08:15

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45149 SDG#: DE197-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-149-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111951AA	07/14/2011 17:16	Chelsea B Eastep	0.99
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111961AA	07/15/2011 11:49	Jason M Long	25.1
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201119324893	07/12/2011 18:27	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201119324893	07/12/2011 18:46	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201119324893	07/12/2011 18:46	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201119324893	07/12/2011 18:24	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11199SLB026	07/24/2011 16:28	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11199SLF026	07/19/2011 19:51	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11199SLF026	07/19/2011 07:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11199SLB026	07/18/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112000012A	07/21/2011 00:06	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112000012A	07/19/2011 15:15	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111945708004	07/22/2011 05:38	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111945708004	07/22/2011 19:49	John P Hook	5
01650	Calcium	SW-846 6010B	1	111945708004	07/22/2011 05:38	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111945708004	07/22/2011 19:49	John P Hook	5
01656	Lithium	SW-846 6010B	1	111945708004	07/22/2011 05:38	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111945708004	07/22/2011 05:38	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111945708004	07/22/2011 05:38	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111945708004	07/22/2011 05:38	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111945708004	07/22/2011 05:38	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111945708004	07/22/2011 05:38	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111945708004	07/22/2011 05:38	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111945708004	07/22/2011 05:38	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112045708001	07/25/2011 04:36	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111945708004	07/22/2011 05:38	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111941026002A	07/14/2011 22:09	David K Beck	2
06125	Arsenic	SW-846 6020	1	111941026002A	07/14/2011 22:09	David K Beck	2
06126	Barium	SW-846 6020	1	111941026002D	07/14/2011 22:09	David K Beck	2
06127	Beryllium	SW-846 6020	1	111941026002A	07/14/2011 22:09	David K Beck	2
06128	Cadmium	SW-846 6020	1	111941026002A	07/14/2011 22:09	David K Beck	2
06131	Chromium	SW-846 6020	1	111941026002A	07/14/2011 22:09	David K Beck	2
06132	Cobalt	SW-846 6020	1	111941026002A	07/14/2011 22:09	David K Beck	2
06133	Copper	SW-846 6020	1	111941026002A	07/14/2011 22:09	David K Beck	2
06135	Lead	SW-846 6020	1	111941026002A	07/14/2011 22:09	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-149-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA5DN-SB-4.0-5.0

LLI Sample # SW 6340788
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 08:15

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45149 SDG#: DE197-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111941026002C	07/14/2011 22:09	David K Beck	2
06139	Nickel	SW-846 6020	1	111941026002A	07/14/2011 22:09	David K Beck	2
06141	Selenium	SW-846 6020	1	111941026002B	07/14/2011 22:09	David K Beck	2
06142	Silver	SW-846 6020	1	111941026002A	07/14/2011 22:09	David K Beck	2
06145	Thallium	SW-846 6020	1	111941026002A	07/14/2011 22:09	David K Beck	2
06148	Vanadium	SW-846 6020	1	111941026002A	07/14/2011 22:09	David K Beck	2
06149	Zinc	SW-846 6020	1	111941026002A	07/14/2011 22:09	David K Beck	2
00159	Mercury	SW-846 7471A	1	111945711007	07/14/2011 18:29	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111945708004	07/14/2011 09:49	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112045708001	07/24/2011 10:49	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111941026002	07/14/2011 10:04	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111945711007	07/14/2011 11:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11201284201A	07/25/2011 06:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11196284202A	07/20/2011 21:54	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11209243202A	07/30/2011 11:34	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11201284201A	07/20/2011 15:15	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11196284202A	07/15/2011 18:45	Alex M Rittle	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039402B	07/21/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11202243201A	07/21/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-199-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SB-4.0-5.0

LLI Sample # SW 6340789
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 10:00

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45199 SDG#: DE197-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	14		6.7	8.0	0.85
06192	Benzene	71-43-2	0.1	U	0.1	4.0	0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0	0.85
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0	0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0	0.85
06192	Bromoform	75-25-2	0.40	U	0.40	4.0	0.85
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0	0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0	0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0	0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0	0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0	0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0	0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0	0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0	0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0	0.85
06192	Chloroform	67-66-3	0.12	U	0.12	4.0	0.85
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0	0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0	0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0	0.85
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0	0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0	0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0	0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0	0.85
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0	0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0	0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0	0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0	0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0	0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0	0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0	0.85
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0	0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0	0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0	0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0	0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0	0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0	0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0	0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0	0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0	0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0	0.85
06192	Freon 113	76-13-1	0.11	U	0.11	4.0	0.85
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0	0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0	0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0	0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0	0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0	0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0	0.85
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0	0.85
06192	Methylene Chloride	75-09-2	7.7		0.24	4.0	0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0	0.85

*=This limit was used in the evaluation of the final result

Sample Description: SL-199-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SB-4.0-5.0

LLI Sample # SW 6340789
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 10:00

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45199 SDG#: DE197-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0	0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0	0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0	0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0	0.85
06192	Toluene	108-88-3	0.15	J	0.08	4.0	0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0	0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0	0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0	0.85
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0	0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0	0.85
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0	0.85
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0	0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0	0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0	0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0	0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0	0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0	0.85
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.						
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14	20.53
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	78	U	78	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-199-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SB-4.0-5.0

LLI Sample # SW 6340789
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 10:00

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45199 SDG#: DE197-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	78	U	78	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9	1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21	1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21	1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.5	J	7.0	21	1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-199-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SB-4.0-5.0

LLI Sample # SW 6340789
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 10:00

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45199 SDG#: DE197-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21	1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(a)pyrene						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,000		6.92	22.9	1
07914	Boron	7440-42-8	0.412	U	0.412	5.72	1
01650	Calcium	7440-70-2	9,760		2.86	22.9	1
01654	Iron	7439-89-6	35,800		14.9	114	5
01656	Lithium	7439-93-2	28.9		0.71	2.3	1
01657	Magnesium	7439-95-4	7,910		0.503	11.4	1
06958	Manganese	7439-96-5	455		0.0412	0.572	1
10145	Phosphorus	7723-14-0	307		0.400	11.4	1
01662	Potassium	7440-09-7	5,170		12.9	57.2	1
01667	Sodium	7440-23-5	131		6.81	114	1
07968	Strontium	7440-24-6	40.4		0.0286	0.572	1
06969	Tin	7440-31-5	3.26	J	0.366	11.4	1
06970	Titanium	7440-32-6	949		0.0797	1.12	1
10146	Zirconium	7440-67-7	7.95		0.526	5.72	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.135	J	0.0847	0.229	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-199-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SB-4.0-5.0

LLI Sample # SW 6340789
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 10:00

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45199 SDG#: DE197-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	5.67	0.0915	0.458	2
06126	Barium	7440-39-3	144	0.121	0.458	2
06127	Beryllium	7440-41-7	1.06	0.0183	0.114	2
06128	Cadmium	7440-43-9	0.330	0.0503	0.114	2
06131	Chromium	7440-47-3	41.5	0.137	0.458	2
06132	Cobalt	7440-48-4	11.8	0.0229	0.114	2
06133	Copper	7440-50-8	18.3	0.0915	0.458	2
06135	Lead	7439-92-1	10.3	0.0117	0.229	2
06138	Molybdenum	7439-98-7	0.353	0.0572	0.114	2
06139	Nickel	7440-02-0	24.3	0.114	0.458	2
06141	Selenium	7782-49-2	0.160 J	0.0664	0.458	2
06142	Silver	7440-22-4	0.0436 J	0.0162	0.114	2
06145	Thallium	7440-28-0	0.385	0.0343	0.114	2
06148	Vanadium	7440-62-2	76.6	0.0252	0.114	2
06149	Zinc	7440-66-6	78.2	0.641	3.43	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078 U	0.0078	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.2	0.93	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	35.0	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.51 J	0.23	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.09	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.3	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-199-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-199-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SB-4.0-5.0

LLI Sample # SW 6340789
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 10:00

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45199 SDG#: DE197-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111951AA	07/14/2011 17:38	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111961AA	07/15/2011 12:09	Jason M Long	20.53
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201119324893	07/12/2011 18:31	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201119324893	07/12/2011 18:46	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201119324893	07/12/2011 18:46	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201119324893	07/12/2011 18:28	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11199SLB026	07/24/2011 16:52	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11199SLF026	07/19/2011 20:23	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11199SLF026	07/19/2011 07:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11199SLB026	07/18/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112000012A	07/21/2011 00:25	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112000012A	07/19/2011 15:15	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111945708004	07/22/2011 05:49	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111945708004	07/22/2011 05:49	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111945708004	07/22/2011 05:49	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111945708004	07/22/2011 19:52	John P Hook	5
01656	Lithium	SW-846 6010B	1	111945708004	07/22/2011 05:49	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111945708004	07/22/2011 05:49	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111945708004	07/22/2011 05:49	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111945708004	07/22/2011 05:49	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111945708004	07/22/2011 05:49	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111945708004	07/22/2011 05:49	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111945708004	07/22/2011 05:49	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111945708004	07/22/2011 05:49	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112045708001	07/25/2011 04:39	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111945708004	07/22/2011 05:49	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111941026002A	07/14/2011 22:12	David K Beck	2
06125	Arsenic	SW-846 6020	1	111941026002A	07/14/2011 22:12	David K Beck	2
06126	Barium	SW-846 6020	1	111941026002D	07/14/2011 22:12	David K Beck	2
06127	Beryllium	SW-846 6020	1	111941026002A	07/14/2011 22:12	David K Beck	2
06128	Cadmium	SW-846 6020	1	111941026002A	07/14/2011 22:12	David K Beck	2
06131	Chromium	SW-846 6020	1	111941026002A	07/14/2011 22:12	David K Beck	2
06132	Cobalt	SW-846 6020	1	111941026002A	07/14/2011 22:12	David K Beck	2
06133	Copper	SW-846 6020	1	111941026002A	07/14/2011 22:12	David K Beck	2
06135	Lead	SW-846 6020	1	111941026002A	07/14/2011 22:12	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111941026002C	07/14/2011 22:12	David K Beck	2
06139	Nickel	SW-846 6020	1	111941026002A	07/14/2011 22:12	David K Beck	2
06141	Selenium	SW-846 6020	1	111941026002B	07/14/2011 22:12	David K Beck	2
06142	Silver	SW-846 6020	1	111941026002A	07/14/2011 22:12	David K Beck	2
06145	Thallium	SW-846 6020	1	111941026002A	07/14/2011 22:12	David K Beck	2
06148	Vanadium	SW-846 6020	1	111941026002A	07/14/2011 22:12	David K Beck	2
06149	Zinc	SW-846 6020	1	111941026002A	07/14/2011 22:12	David K Beck	2
00159	Mercury	SW-846 7471A	1	111945711007	07/14/2011 18:31	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-199-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SB-4.0-5.0

LLI Sample # SW 6340789
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 10:00

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45199 SDG#: DE197-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111945708004	07/14/2011 09:49	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112045708001	07/24/2011 10:49	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111941026002	07/14/2011 10:04	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111945711007	07/14/2011 11:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11201284201A	07/25/2011 06:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11196284202A	07/20/2011 22:17	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11209243202A	07/30/2011 11:41	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11201284201A	07/20/2011 15:15	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11196284202A	07/15/2011 18:45	Alex M Rittle	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039402B	07/21/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11202243201A	07/21/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-199-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SB-9.0-10.0

LLI Sample # SW 6340790
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 10:05

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

91199 SDG#: DE197-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	29	J	19	370	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-199-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SB-9.0-10.0

LLI Sample # SW 6340790
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 10:05

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

91199 SDG#: DE197-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(a)pyrene

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-199-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SB-9.0-10.0

LLI Sample # SW 6340790
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 10:05

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

91199 SDG#: DE197-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,000	6.53	21.6	1
07914	Boron	7440-42-8	0.389 U	0.389	5.40	1
01650	Calcium	7440-70-2	68,900	13.5	108	5
01654	Iron	7439-89-6	31,500	14.1	108	5
01656	Lithium	7439-93-2	29.9	0.67	2.2	1
01657	Magnesium	7439-95-4	7,990	0.475	10.8	1
06958	Manganese	7439-96-5	422	0.0389	0.540	1
10145	Phosphorus	7723-14-0	440	0.378	10.8	1
01662	Potassium	7440-09-7	3,740	12.2	54.0	1
01667	Sodium	7440-23-5	212	6.42	108	1
07968	Strontium	7440-24-6	119	0.0270	0.540	1
06969	Tin	7440-31-5	3.05 J	0.345	10.8	1
06970	Titanium	7440-32-6	1,120	0.0789	1.11	1
10146	Zirconium	7440-67-7	7.78	0.496	5.40	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0953 J	0.0822	0.222	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	5.47	0.0889	0.444	2
06126	Barium	7440-39-3	121	0.118	0.444	2
06127	Beryllium	7440-41-7	0.819	0.0178	0.111	2
06128	Cadmium	7440-43-9	0.318	0.0489	0.111	2
06131	Chromium	7440-47-3	34.9	0.133	0.444	2
06132	Cobalt	7440-48-4	9.10	0.0222	0.111	2
06133	Copper	7440-50-8	16.9	0.0889	0.444	2
06135	Lead	7439-92-1	8.44	0.0113	0.222	2
06138	Molybdenum	7439-98-7	0.196	0.0556	0.111	2
06139	Nickel	7440-02-0	20.1	0.111	0.444	2
06141	Selenium	7782-49-2	0.0894 J	0.0645	0.444	2
06142	Silver	7440-22-4	0.0386 J	0.0158	0.111	2
06145	Thallium	7440-28-0	0.278	0.0333	0.111	2
06148	Vanadium	7440-62-2	67.1	0.0244	0.111	2
06149	Zinc	7440-66-6	64.8	0.622	3.33	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076 U	0.0076	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.4	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.7	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35 J	0.23	1.2	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-199-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SB-9.0-10.0

LLI Sample # SW 6340790
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 10:05

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

91199 SDG#: DE197-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.54	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11199SLB026	07/24/2011 17:17	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11199SLF026	07/19/2011 20:54	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11199SLF026	07/19/2011 07:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11199SLB026	07/18/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112000012A	07/21/2011 00:43	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112000012A	07/19/2011 15:15	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111945708004	07/22/2011 05:52	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111945708004	07/22/2011 05:52	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111945708004	07/22/2011 19:56	John P Hook	5
01654	Iron	SW-846 6010B	1	111945708004	07/22/2011 19:56	John P Hook	5
01656	Lithium	SW-846 6010B	1	111945708004	07/22/2011 05:52	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111945708004	07/22/2011 05:52	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111945708004	07/22/2011 05:52	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111945708004	07/22/2011 05:52	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111945708004	07/22/2011 05:52	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111945708004	07/22/2011 05:52	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111945708004	07/22/2011 05:52	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111945708004	07/22/2011 05:52	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112045708001	07/25/2011 04:50	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111945708004	07/22/2011 05:52	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111941026002A	07/14/2011 22:21	David K Beck	2
06125	Arsenic	SW-846 6020	1	111941026002A	07/14/2011 22:21	David K Beck	2
06126	Barium	SW-846 6020	1	111941026002D	07/14/2011 22:21	David K Beck	2
06127	Beryllium	SW-846 6020	1	111941026002A	07/14/2011 22:21	David K Beck	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-199-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SB-9.0-10.0

LLI Sample # SW 6340790
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 10:05

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

91199 SDG#: DE197-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111941026002A	07/14/2011 22:21	David K Beck	2
06131	Chromium	SW-846 6020	1	111941026002A	07/14/2011 22:21	David K Beck	2
06132	Cobalt	SW-846 6020	1	111941026002A	07/14/2011 22:21	David K Beck	2
06133	Copper	SW-846 6020	1	111941026002A	07/14/2011 22:21	David K Beck	2
06135	Lead	SW-846 6020	1	111941026002A	07/14/2011 22:21	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111941026002C	07/14/2011 22:21	David K Beck	2
06139	Nickel	SW-846 6020	1	111941026002A	07/14/2011 22:21	David K Beck	2
06141	Selenium	SW-846 6020	1	111941026002B	07/14/2011 22:21	David K Beck	2
06142	Silver	SW-846 6020	1	111941026002A	07/14/2011 22:21	David K Beck	2
06145	Thallium	SW-846 6020	1	111941026002A	07/14/2011 22:21	David K Beck	2
06148	Vanadium	SW-846 6020	1	111941026002A	07/14/2011 22:21	David K Beck	2
06149	Zinc	SW-846 6020	1	111941026002A	07/14/2011 22:21	David K Beck	2
00159	Mercury	SW-846 7471A	1	111945711007	07/14/2011 18:32	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111945708004	07/14/2011 09:49	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112045708001	07/24/2011 10:49	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111941026002	07/14/2011 10:04	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111945711007	07/14/2011 11:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11201284201A	07/25/2011 07:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11196284202A	07/20/2011 22:40	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11209243202A	07/30/2011 12:01	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11201284201A	07/20/2011 15:15	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11196284202A	07/15/2011 18:45	Alex M Rittle	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039402B	07/21/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11202243201A	07/21/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

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Analysis Report

Sample Description: SL-135-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA6-SB-4.0-5.0

LLI Sample # SW 6340791
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 12:00

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45135 SDG#: DE197-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	15		6.5	7.8	0.84
06192	Benzene	71-43-2	0.1	U	0.1	3.9	0.84
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9	0.84
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9	0.84
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9	0.84
06192	Bromoform	75-25-2	0.39	U	0.39	3.9	0.84
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9	0.84
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8	0.84
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9	0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9	0.84
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9	0.84
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9	0.84
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9	0.84
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9	0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9	0.84
06192	Chloroform	67-66-3	0.12	U	0.12	3.9	0.84
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9	0.84
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9	0.84
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9	0.84
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9	0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9	0.84
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9	0.84
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9	0.84
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9	0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9	0.84
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9	0.84
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9	0.84
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9	0.84
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9	0.84
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9	0.84
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9	0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9	0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9	0.84
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9	0.84
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9	0.84
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9	0.84
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9	0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9	0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9	0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9	0.84
06192	Freon 113	76-13-1	0.11	U	0.11	3.9	0.84
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9	0.84
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9	0.84
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8	0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9	0.84
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9	0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9	0.84
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8	0.84
06192	Methylene Chloride	75-09-2	7.6		0.24	3.9	0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9	0.84

*=This limit was used in the evaluation of the final result

Sample Description: SL-135-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA6-SB-4.0-5.0

LLI Sample # SW 6340791
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 12:00

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45135 SDG#: DE197-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9	0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9	0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9	0.84
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9	0.84
06192	Toluene	108-88-3	0.12	J	0.08	3.9	0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9	0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9	0.84
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9	0.84
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9	0.84
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9	0.84
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9	0.84
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9	0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9	0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9	0.84
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9	0.84
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9	0.84
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9	0.84

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15	21.66
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-135-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA6-SB-4.0-5.0

LLI Sample # SW 6340791
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 12:00

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45135 SDG#: DE197-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	31	J	19	390	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	Tetralin	119-64-2	190	U	190	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1
	The QC limits for 1,2,3,4-tetrahydronaphthalene are advisory only until sufficient data points can be obtained to calculate statistical limits.						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-135-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA6-SB-4.0-5.0

LLI Sample # SW 6340791
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 12:00

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45135 SDG#: DE197-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	1.2	J	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9	1
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(a)pyrene							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2	23.5
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580	1
10501	Isopropanol	67-63-0	120	U	120	580	1
10501	Methanol	67-56-1	120	U	120	580	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12	1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12	1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-135-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA6-SB-4.0-5.0

LLI Sample # SW 6340791
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 12:00

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45135 SDG#: DE197-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1	1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1	1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4	1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4	1
10199	EFH (C21-C30)	n.a.	0.47	J	0.46	1.4	1
10199	EFH (C30 - C40)	n.a.	0.70	J	0.46	1.4	1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,300		6.94	22.9	1
07914	Boron	7440-42-8	3.31	J	2.07	28.7	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	2,010		2.87	22.9	1
01654	Iron	7439-89-6	26,600		2.99	22.9	1
01656	Lithium	7439-93-2	26.5		0.71	2.3	1
01657	Magnesium	7439-95-4	4,750		0.505	11.5	1
06958	Manganese	7439-96-5	147		0.0413	0.574	1
10145	Phosphorus	7723-14-0	354		0.402	11.5	1
01662	Potassium	7440-09-7	1,590		13.0	57.4	1
01667	Sodium	7440-23-5	103	J	6.83	115	1
07968	Strontium	7440-24-6	18.7		0.0287	0.574	1
06969	Tin	7440-31-5	3.46	J	0.367	11.5	1
06970	Titanium	7440-32-6	1,110		0.0784	1.10	1
10146	Zirconium	7440-67-7	4.69	J	0.528	5.74	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0832	U	0.0832	0.225	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	34.2		0.0900	0.450	2
06126	Barium	7440-39-3	87.3		0.119	0.450	2
06127	Beryllium	7440-41-7	1.21		0.0180	0.112	2
06128	Cadmium	7440-43-9	0.0495	U	0.0495	0.112	2
06131	Chromium	7440-47-3	20.3		0.135	0.450	2
06132	Cobalt	7440-48-4	5.17		0.0225	0.112	2
06133	Copper	7440-50-8	6.43		0.0900	0.450	2
06135	Lead	7439-92-1	7.06		0.0115	0.225	2
06138	Molybdenum	7439-98-7	1.36		0.0562	0.112	2
06139	Nickel	7440-02-0	12.6		0.112	0.450	2
06141	Selenium	7782-49-2	0.166	J	0.0652	0.450	2
06142	Silver	7440-22-4	0.0830	J	0.0160	0.112	2
06145	Thallium	7440-28-0	0.249		0.0337	0.112	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-135-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA6-SB-4.0-5.0

LLI Sample # SW 6340791
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 12:00

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45135 SDG#: DE197-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06148	Vanadium	7440-62-2	53.3	0.0247	0.112	2
06149	Zinc	7440-66-6	45.9	0.630	3.37	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0206 J	0.0080	0.114	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.7	0.93	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.8	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.2	0.23	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.64	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.7	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-135-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111951AA	07/14/2011 18:00	Chelsea B Eastep	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111961AA	07/15/2011 12:29	Jason M Long	21.66
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201119324893	07/12/2011 18:36	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201119324893	07/12/2011 18:46	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result

Sample Description: SL-135-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA6-SB-4.0-5.0

LLI Sample # SW 6340791
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 12:00

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45135 SDG#: DE197-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201119324893	07/12/2011 18:46	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201119324893	07/12/2011 18:34	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11199SLB026	07/24/2011 17:42	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11199SLF026	07/19/2011 21:25	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11199SLF026	07/19/2011 07:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11199SLB026	07/18/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11195A34A	07/14/2011 13:38	Laura M Krieger	23.5
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119324893	07/12/2011 18:33	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112000012A	07/21/2011 01:02	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112000012A	07/19/2011 15:15	JoElla L Rice	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111930030A	07/14/2011 01:18	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111940001A	07/13/2011 14:11	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111990011A	07/21/2011 02:07	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111970011A	07/19/2011 18:13	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111970011A	07/18/2011 10:20	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	111990011A	07/18/2011 18:15	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111930030A	07/13/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111940001A	07/13/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111945708004	07/22/2011 05:56	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111945708004	07/22/2011 19:59	John P Hook	5
01650	Calcium	SW-846 6010B	1	111945708004	07/22/2011 05:56	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111945708004	07/22/2011 05:56	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111945708004	07/22/2011 05:56	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111945708004	07/22/2011 05:56	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111945708004	07/22/2011 05:56	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111945708004	07/22/2011 05:56	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111945708004	07/22/2011 05:56	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111945708004	07/22/2011 05:56	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111945708004	07/22/2011 05:56	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111945708004	07/22/2011 05:56	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112045708001	07/25/2011 04:54	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111945708004	07/22/2011 05:56	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111941026002A	07/14/2011 22:24	David K Beck	2
06125	Arsenic	SW-846 6020	1	111941026002A	07/14/2011 22:24	David K Beck	2
06126	Barium	SW-846 6020	1	111941026002D	07/14/2011 22:24	David K Beck	2
06127	Beryllium	SW-846 6020	1	111941026002A	07/14/2011 22:24	David K Beck	2
06128	Cadmium	SW-846 6020	1	111941026002A	07/14/2011 22:24	David K Beck	2
06131	Chromium	SW-846 6020	1	111941026002A	07/14/2011 22:24	David K Beck	2
06132	Cobalt	SW-846 6020	1	111941026002A	07/14/2011 22:24	David K Beck	2
06133	Copper	SW-846 6020	1	111941026002A	07/14/2011 22:24	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-135-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA6-SB-4.0-5.0

LLI Sample # SW 6340791
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 12:00

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45135 SDG#: DE197-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	111941026002A	07/14/2011 22:24	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111941026002C	07/14/2011 22:24	David K Beck	2
06139	Nickel	SW-846 6020	1	111941026002A	07/14/2011 22:24	David K Beck	2
06141	Selenium	SW-846 6020	1	111941026002B	07/14/2011 22:24	David K Beck	2
06142	Silver	SW-846 6020	1	111941026002A	07/14/2011 22:24	David K Beck	2
06145	Thallium	SW-846 6020	1	111941026002A	07/14/2011 22:24	David K Beck	2
06148	Vanadium	SW-846 6020	1	111941026002A	07/14/2011 22:24	David K Beck	2
06149	Zinc	SW-846 6020	1	111941026002A	07/14/2011 22:24	David K Beck	2
00159	Mercury	SW-846 7471A	1	111945711007	07/14/2011 18:33	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111945708004	07/14/2011 09:49	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112045708001	07/24/2011 10:49	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111941026002	07/14/2011 10:04	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111945711007	07/14/2011 11:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11201284201A	07/25/2011 07:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11196284202A	07/20/2011 23:03	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11209243202A	07/30/2011 12:07	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11201284201A	07/20/2011 15:15	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11196284202A	07/15/2011 18:45	Alex M Rittle	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039402B	07/21/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11202243201A	07/21/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-138-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA6-SB-4.0-5.0

LLI Sample # SW 6340792
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:05

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45138 SDG#: DE197-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	14		7.3	8.7	1.02
06192	Benzene	71-43-2	0.11	U	0.11	4.4	1.02
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4	1.02
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4	1.02
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4	1.02
06192	Bromoform	75-25-2	0.44	U	0.44	4.4	1.02
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4	1.02
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7	1.02
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4	1.02
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4	1.02
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.4	1.02
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4	1.02
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4	1.02
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4	1.02
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4	1.02
06192	Chloroform	67-66-3	0.13	U	0.13	4.4	1.02
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4	1.02
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4	1.02
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4	1.02
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.5	1.02
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.4	1.02
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4	1.02
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.4	1.02
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4	1.02
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4	1.02
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4	1.02
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.4	1.02
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4	1.02
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4	1.02
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4	1.02
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4	1.02
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4	1.02
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4	1.02
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.4	1.02
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4	1.02
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.4	1.02
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4	1.02
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.4	1.02
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.4	1.02
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4	1.02
06192	Freon 113	76-13-1	0.12	U	0.12	4.4	1.02
06192	Freon 133a	75-88-7	0.54	U	0.54	5.5	1.02
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4	1.02
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7	1.02
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4	1.02
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4	1.02
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4	1.02
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.7	1.02
06192	Methylene Chloride	75-09-2	7.0		0.26	4.4	1.02
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4	1.02

*=This limit was used in the evaluation of the final result

Sample Description: SL-138-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA6-SB-4.0-5.0

LLI Sample # SW 6340792
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:05

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45138 SDG#: DE197-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4	1.02
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4	1.02
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4	1.02
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4	1.02
06192	Toluene	108-88-3	0.14	J	0.09	4.4	1.02
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4	1.02
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4	1.02
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4	1.02
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.4	1.02
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4	1.02
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4	1.02
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4	1.02
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4	1.02
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4	1.02
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4	1.02
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.4	1.02
06192	o-Xylene	95-47-6	0.18	U	0.18	4.4	1.02

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16	25.51
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-138-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA6-SB-4.0-5.0

LLI Sample # SW 6340792
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:05

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45138 SDG#: DE197-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	33	J	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	Tetralin	119-64-2	180	U	180	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
	The QC limits for 1,2,3,4-tetrahydronaphthalene are advisory only until sufficient data points can be obtained to calculate statistical limits.						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-138-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA6-SB-4.0-5.0

LLI Sample # SW 6340792
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:05

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45138 SDG#: DE197-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(a)pyrene						
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1	25.83
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530	1
10501	Isopropanol	67-63-0	110	U	110	530	1
10501	Methanol	67-56-1	110	U	110	530	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11	1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11	1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-138-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA6-SB-4.0-5.0

LLI Sample # SW 6340792
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:05

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45138 SDG#: DE197-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3	1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3	1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3	1
10199	EFH (C30 - C40)	n.a.	0.81	J	0.43	1.3	1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,600		6.34	20.9	1
07914	Boron	7440-42-8	0.377	U	0.377	5.24	1
01650	Calcium	7440-70-2	1,780		2.62	20.9	1
01654	Iron	7439-89-6	19,200		2.73	20.9	1
01656	Lithium	7439-93-2	25.0		0.65	2.1	1
01657	Magnesium	7439-95-4	4,170		0.461	10.5	1
06958	Manganese	7439-96-5	334		0.0377	0.524	1
10145	Phosphorus	7723-14-0	299		0.367	10.5	1
01662	Potassium	7440-09-7	3,570		11.8	52.4	1
01667	Sodium	7440-23-5	72.4	J	6.23	105	1
07968	Strontium	7440-24-6	16.0		0.0262	0.524	1
06969	Tin	7440-31-5	2.81	J	0.335	10.5	1
06970	Titanium	7440-32-6	1,020		0.0722	1.02	1
10146	Zirconium	7440-67-7	3.30	J	0.482	5.24	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0768	U	0.0768	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.4		0.0830	0.415	2
06126	Barium	7440-39-3	93.7		0.110	0.415	2
06127	Beryllium	7440-41-7	0.632		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.133		0.0456	0.104	2
06131	Chromium	7440-47-3	17.6		0.124	0.415	2
06132	Cobalt	7440-48-4	6.13		0.0207	0.104	2
06133	Copper	7440-50-8	8.61		0.0830	0.415	2
06135	Lead	7439-92-1	4.77		0.0106	0.207	2
06138	Molybdenum	7439-98-7	0.482		0.0519	0.104	2
06139	Nickel	7440-02-0	13.7		0.104	0.415	2
06141	Selenium	7782-49-2	0.117	J	0.0602	0.415	2
06142	Silver	7440-22-4	0.0298	J	0.0147	0.104	2
06145	Thallium	7440-28-0	0.272		0.0311	0.104	2
06148	Vanadium	7440-62-2	34.7		0.0228	0.104	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-138-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA6-SB-4.0-5.0

LLI Sample # SW 6340792
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:05

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45138 SDG#: DE197-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06149	Zinc	7440-66-6	50.8		0.581	3.11	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069	U	0.0069	0.0986	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.56	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.86		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.4		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-138-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111951AA	07/14/2011 18:22	Chelsea B Eastep	1.02
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111961AA	07/15/2011 12:49	Jason M Long	25.51
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201119324893	07/12/2011 18:42	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201119324893	07/12/2011 18:46	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201119324893	07/12/2011 18:46	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result

Sample Description: SL-138-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA6-SB-4.0-5.0

LLI Sample # SW 6340792
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:05

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

45138 SDG#: DE197-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201119324893	07/12/2011 18:39	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11199SLB026	07/24/2011 18:07	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11199SLF026	07/19/2011 21:56	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11199SLF026	07/19/2011 07:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11199SLB026	07/18/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11195A34A	07/14/2011 14:13	Laura M Krieger	25.83
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119324893	07/12/2011 18:38	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112000012A	07/21/2011 01:21	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112000012A	07/19/2011 15:15	JoElla L Rice	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111930030A	07/14/2011 01:33	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111940001A	07/13/2011 14:24	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111990011A	07/21/2011 02:52	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111970011A	07/19/2011 18:39	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111970011A	07/18/2011 10:20	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	111990011A	07/18/2011 18:15	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111930030A	07/13/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111940001A	07/13/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111945708004	07/22/2011 06:00	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111945708004	07/22/2011 06:00	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111945708004	07/22/2011 06:00	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111945708004	07/22/2011 06:00	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111945708004	07/22/2011 06:00	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111945708004	07/22/2011 06:00	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111945708004	07/22/2011 06:00	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111945708004	07/22/2011 06:00	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111945708004	07/22/2011 06:00	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111945708004	07/22/2011 06:00	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111945708004	07/22/2011 06:00	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111945708004	07/22/2011 06:00	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112045708001	07/25/2011 04:57	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111945708004	07/22/2011 06:00	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111941026002A	07/14/2011 22:27	David K Beck	2
06125	Arsenic	SW-846 6020	1	111941026002A	07/14/2011 22:27	David K Beck	2
06126	Barium	SW-846 6020	1	111941026002D	07/14/2011 22:27	David K Beck	2
06127	Beryllium	SW-846 6020	1	111941026002A	07/14/2011 22:27	David K Beck	2
06128	Cadmium	SW-846 6020	1	111941026002A	07/14/2011 22:27	David K Beck	2
06131	Chromium	SW-846 6020	1	111941026002A	07/14/2011 22:27	David K Beck	2
06132	Cobalt	SW-846 6020	1	111941026002A	07/14/2011 22:27	David K Beck	2
06133	Copper	SW-846 6020	1	111941026002A	07/14/2011 22:27	David K Beck	2
06135	Lead	SW-846 6020	1	111941026002A	07/14/2011 22:27	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111941026002C	07/14/2011 22:27	David K Beck	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-138-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA6-SB-4.0-5.0

LLI Sample # SW 6340792
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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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45138 SDG#: DE197-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06139	Nickel	SW-846 6020	1	111941026002A	07/14/2011 22:27	David K Beck	2
06141	Selenium	SW-846 6020	1	111941026002B	07/14/2011 22:27	David K Beck	2
06142	Silver	SW-846 6020	1	111941026002A	07/14/2011 22:27	David K Beck	2
06145	Thallium	SW-846 6020	1	111941026002A	07/14/2011 22:27	David K Beck	2
06148	Vanadium	SW-846 6020	1	111941026002A	07/14/2011 22:27	David K Beck	2
06149	Zinc	SW-846 6020	1	111941026002A	07/14/2011 22:27	David K Beck	2
00159	Mercury	SW-846 7471A	1	111945711007	07/14/2011 18:34	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111945708004	07/14/2011 09:49	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112045708001	07/24/2011 10:49	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111941026002	07/14/2011 10:04	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111945711007	07/14/2011 11:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11201284201A	07/25/2011 07:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11196284202A	07/20/2011 23:26	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11209243202A	07/30/2011 12:21	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11201284201A	07/20/2011 15:15	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11196284202A	07/15/2011 18:45	Alex M Rittle	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039402B	07/21/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11202243201A	07/21/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-138-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA6-SB-9.0-10.0

LLI Sample # SW 6340793
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:15

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

91138 SDG#: DE197-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	74	U	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	34	J	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	74	U	74	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-138-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA6-SB-9.0-10.0

LLI Sample # SW 6340793
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:15

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

91138 SDG#: DE197-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	Tetralin	119-64-2	180	U	180	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
The QC limits for 1,2,3,4-tetrahydronaphthalene are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.74	J	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(a)pyrene							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1	24.04
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1

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Sample Description: SL-138-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA6-SB-9.0-10.0

LLI Sample # SW 6340793
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

91138 SDG#: DE197-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550	1
10501	Isopropanol	67-63-0	110	U	110	550	1
10501	Methanol	67-56-1	110	U	110	550	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11	1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11	1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9	1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9	1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.4	U	4.4	13	10
10199	EFH (C15-C20)	n.a.	5.5	J	4.4	13	10
10199	EFH (C21-C30)	n.a.	25		4.4	13	10
10199	EFH (C30 - C40)	n.a.	84		4.4	13	10
10199	EFH (C8-C11)	n.a.	4.4	U	4.4	13	10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,800		6.62	21.9	1
07914	Boron	7440-42-8	0.394	U	0.394	5.47	1
01650	Calcium	7440-70-2	2,160		2.74	21.9	1
01654	Iron	7439-89-6	21,200		2.86	21.9	1
01656	Lithium	7439-93-2	25.3		0.68	2.2	1
01657	Magnesium	7439-95-4	4,560		0.481	10.9	1
06958	Manganese	7439-96-5	150		0.0394	0.547	1
10145	Phosphorus	7723-14-0	125		0.383	10.9	1
01662	Potassium	7440-09-7	1,550		12.4	54.7	1
01667	Sodium	7440-23-5	116		6.51	109	1
07968	Strontium	7440-24-6	22.5		0.0274	0.547	1
06969	Tin	7440-31-5	3.30	J	0.350	10.9	1
06970	Titanium	7440-32-6	1,050		0.0769	1.08	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-138-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA6-SB-9.0-10.0

LLI Sample # SW 6340793
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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91138 SDG#: DE197-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	3.79 J	0.503	5.47	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0786 U	0.0786	0.212	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	20.2	0.0850	0.425	2
06126	Barium	7440-39-3	61.2	0.113	0.425	2
06127	Beryllium	7440-41-7	0.775	0.0170	0.106	2
06128	Cadmium	7440-43-9	0.0529 J	0.0467	0.106	2
06131	Chromium	7440-47-3	20.3	0.127	0.425	2
06132	Cobalt	7440-48-4	5.23	0.0212	0.106	2
06133	Copper	7440-50-8	5.98	0.0850	0.425	2
06135	Lead	7439-92-1	6.20	0.0108	0.212	2
06138	Molybdenum	7439-98-7	0.512	0.0531	0.106	2
06139	Nickel	7440-02-0	9.96	0.106	0.425	2
06141	Selenium	7782-49-2	0.0714 J	0.0616	0.425	2
06142	Silver	7440-22-4	0.0371 J	0.0151	0.106	2
06145	Thallium	7440-28-0	0.222	0.0319	0.106	2
06148	Vanadium	7440-62-2	39.7	0.0234	0.106	2
06149	Zinc	7440-66-6	44.1	0.595	3.19	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0102 J	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3	0.88	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.1	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.64 J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.66	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-138-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA6-SB-9.0-10.0

LLI Sample # SW 6340793
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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91138 SDG#: DE197-06

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-138-SA6-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11199SLB026	07/24/2011 18:32	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11199SLF026	07/19/2011 22:28	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11199SLF026	07/19/2011 07:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11199SLB026	07/18/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11195A34A	07/14/2011 14:46	Laura M Krieger	24.04
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119324893	07/12/2011 18:43	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112000012A	07/21/2011 01:39	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112000012A	07/19/2011 15:15	JoElla L Rice	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111930030A	07/14/2011 01:48	Tracy A Cole	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111940001A	07/13/2011 14:37	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111990011A	07/21/2011 03:36	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111970011A	07/19/2011 19:04	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	111970011A	07/18/2011 10:20	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	111990011A	07/18/2011 18:15	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111930030A	07/13/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111940001A	07/13/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111945708004	07/22/2011 06:04	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111945708004	07/22/2011 06:04	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111945708004	07/22/2011 06:04	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111945708004	07/22/2011 06:04	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111945708004	07/22/2011 06:04	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111945708004	07/22/2011 06:04	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111945708004	07/22/2011 06:04	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111945708004	07/22/2011 06:04	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111945708004	07/22/2011 06:04	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111945708004	07/22/2011 06:04	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111945708004	07/22/2011 06:04	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111945708004	07/22/2011 06:04	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112045708001	07/25/2011 05:01	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111945708004	07/22/2011 06:04	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111941026002A	07/14/2011 22:30	David K Beck	2
06125	Arsenic	SW-846 6020	1	111941026002A	07/14/2011 22:30	David K Beck	2
06126	Barium	SW-846 6020	1	111941026002D	07/14/2011 22:30	David K Beck	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-138-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA6-SB-9.0-10.0

LLI Sample # SW 6340793
LLI Group # 1255672
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Project Name: SSFL Area IV Collocated Soil Sampling

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91138 SDG#: DE197-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111941026002A	07/14/2011 22:30	David K Beck	2
06128	Cadmium	SW-846 6020	1	111941026002A	07/14/2011 22:30	David K Beck	2
06131	Chromium	SW-846 6020	1	111941026002A	07/14/2011 22:30	David K Beck	2
06132	Cobalt	SW-846 6020	1	111941026002A	07/14/2011 22:30	David K Beck	2
06133	Copper	SW-846 6020	1	111941026002A	07/14/2011 22:30	David K Beck	2
06135	Lead	SW-846 6020	1	111941026002A	07/14/2011 22:30	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111941026002C	07/14/2011 22:30	David K Beck	2
06139	Nickel	SW-846 6020	1	111941026002A	07/14/2011 22:30	David K Beck	2
06141	Selenium	SW-846 6020	1	111941026002B	07/14/2011 22:30	David K Beck	2
06142	Silver	SW-846 6020	1	111941026002A	07/14/2011 22:30	David K Beck	2
06145	Thallium	SW-846 6020	1	111941026002A	07/14/2011 22:30	David K Beck	2
06148	Vanadium	SW-846 6020	1	111941026002A	07/14/2011 22:30	David K Beck	2
06149	Zinc	SW-846 6020	1	111941026002A	07/14/2011 22:30	David K Beck	2
00159	Mercury	SW-846 7471A	1	111945711007	07/14/2011 18:35	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111945708004	07/14/2011 09:49	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112045708001	07/24/2011 10:49	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111941026002	07/14/2011 10:04	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111945711007	07/14/2011 11:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11201284201A	07/25/2011 07:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11196284202A	07/20/2011 23:49	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11209243202A	07/30/2011 12:41	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11201284201A	07/20/2011 15:15	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11196284202A	07/15/2011 18:45	Alex M Rittle	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039402B	07/21/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11202243201A	07/21/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: TB-070911 Water
SSFL Area IV Collocated Soil Sampling
TB-070911

LLI Sample # WW 6340794
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 08:00

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

709TB SDG#: DE197-07TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20	1
10904	Benzene	71-43-2	0.5	U	0.5	5	1
10904	Bromobenzene	108-86-1	1	U	1	5	1
10904	Bromochloromethane	74-97-5	1	U	1	5	1
10904	Bromodichloromethane	75-27-4	1	U	1	5	1
10904	Bromoform	75-25-2	1	U	1	5	1
10904	Bromomethane	74-83-9	1	U	1	5	1
10904	2-Butanone	78-93-3	3	U	3	10	1
10904	n-Butylbenzene	104-51-8	1	U	1	5	1
10904	sec-Butylbenzene	135-98-8	1	U	1	5	1
10904	tert-Butylbenzene	98-06-6	1	U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5	1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5	1
10904	Chloroethane	75-00-3	1	U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8	U	0.8	5	1
10904	Chloromethane	74-87-3	1	U	1	5	1
10904	2-Chlorotoluene	95-49-8	1	U	1	5	1
10904	4-Chlorotoluene	106-43-4	1	U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10904	Dibromochloromethane	124-48-1	1	U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5	1
10904	Dibromomethane	74-95-3	1	U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5	1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5	1
10904	Freon 113	76-13-1	2	U	2	10	1
10904	Freon 133a	75-88-7	2	U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5	1
10904	2-Hexanone	591-78-6	3	U	3	10	1
10904	Isopropylbenzene	98-82-8	1	U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: TB-070911 Water
SSFL Area IV Collocated Soil Sampling
TB-070911

LLI Sample # WW 6340794
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 08:00

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

709TB SDG#: DE197-07TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111961AA	07/15/2011 12:22	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111951AA	07/14/2011 10:49	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111951AA	07/14/2011 10:49	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y111961AA	07/15/2011 12:22	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11195C20A	07/15/2011 17:01	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	11195C20A	07/15/2011 17:01	Catherine J Schwarz	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-149-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA6-SS-0.0-0.5

LLI Sample # SW 6340795
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:15

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00149 SDG#: DE197-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(a)anthracene	56-55-3	22	J	17	170	1
04688	Benzo(a)pyrene	50-32-8	18	J	17	170	1
04688	Benzo(b)fluoranthene	205-99-2	27	J	17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	20	J	17	170	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Chrysene	218-01-9	23	J	17	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	340	1
04688	Fluoranthene	206-44-0	36	J	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-149-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA6-SS-0.0-0.5

LLI Sample # SW 6340795
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:15

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00149 SDG#: DE197-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Pyrene	129-00-0	17	U	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
	The QC limits for 1,2,3,4-tetrahydronaphthalene are advisory only until sufficient data points can be obtained to calculate statistical limits.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	6.6	U	6.6	17	10
10138	Acenaphthylene	208-96-8	3.3	U	3.3	17	10
10138	Anthracene	120-12-7	3.3	U	3.3	17	10
10138	Benzo(k)fluoranthene	207-08-9	8.2	J	6.6	17	10
10138	Butylbenzylphthalate	85-68-7	69	J	60	180	10
10138	Di-n-butylphthalate	84-74-2	85	J	60	180	10
10138	Dibenz(a,h)anthracene	53-70-3	6.6	U	6.6	17	10
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	340		60	180	10
10138	Fluorene	86-73-7	6.6	U	6.6	17	10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	10	J	6.6	17	10
10138	1-Methylnaphthalene	90-12-0	6.6	U	6.6	17	10
10138	2-Methylnaphthalene	91-57-6	6.6	U	6.6	17	10
10138	Naphthalene	91-20-3	6.6	U	6.6	17	10
10138	N-Nitrosodimethylamine	62-75-9	6.6	U	6.6	17	10
10138	Di-n-octylphthalate	117-84-0	64	J	60	180	10
10138	Phenanthrene	85-01-8	8.5	J	6.6	17	10
10138	Pyrene	129-00-0	20		6.6	17	10
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(a)pyrene						
	Reporting limits were raised due to interference from the sample matrix.						
	Di-n-butylphthalate was detected in the method blank at a concentration of 7.6 ug/kg. The blank value was not subtracted from the analytical result.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1	1
10401	2,4-DB	94-82-6	1.3	J	0.63	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-149-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA6-SS-0.0-0.5

LLI Sample # SW 6340795
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:15

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00149 SDG#: DE197-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	77	U	77	250	1
10401	MCPP (Mecoprop)	93-65-2	81	U	81	250	1
10401	2,4,5-T	93-76-5	0.22	U	0.22	0.22	1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17	1

The LCS recovery for dinoseb is outside the QC limits of 10-36% at 7%. Since dinoseb does not recover well with this method and the recovery is within our in-house statistical limits of 0-32%, the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.065	U	0.065	0.17	1
01363	Chlordane	57-74-9	2.3	J	0.81	3.4	1
01363	p,p-DDD	72-54-8	0.33	U	0.33	1.7	5
01363	p,p-DDE	72-55-9	0.87		0.067	0.34	1
01363	p,p-DDT	50-29-3	4.7		0.33	1.7	5
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17	1
01363	Dieldrin	60-57-1	1.1	U	1.1	1.1	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.26	J	0.067	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.17	U	0.17	0.34	1
01363	Endrin	72-20-8	0.28	U	0.28	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.62		0.067	0.34	1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34	1
01363	Heptachlor	76-44-8	0.13	J	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.56		0.034	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.20	U	0.20	0.34	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7	1

The sample followed a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised for gamma-BHC,dieldrin,endrin, mirex, endosulfan sulfate,and 4,4-DDD due to interference from the sample matrix.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	45		1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-149-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA6-SS-0.0-0.5

LLI Sample # SW 6340795
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:15

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00149 SDG#: DE197-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	27		0.33	1.7	1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510	1
10501	Isopropanol	67-63-0	100	U	100	510	1
10501	Methanol	67-56-1	100	U	100	510	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10	1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10	1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.0	U	4.0	12	10
10199	EFH (C15-C20)	n.a.	4.4	J	4.0	12	10
10199	EFH (C21-C30)	n.a.	25		4.0	12	10
10199	EFH (C30 - C40)	n.a.	83		4.0	12	10
10199	EFH (C8-C11)	n.a.	4.0	U	4.0	12	10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,500		6.13	20.3	1
07914	Boron	7440-42-8	0.365	U	0.365	5.07	1
01650	Calcium	7440-70-2	5,970		2.53	20.3	1
01654	Iron	7439-89-6	18,700		2.64	20.3	1
01656	Lithium	7439-93-2	23.2		0.63	2.0	1
01657	Magnesium	7439-95-4	5,150		0.446	10.1	1
06958	Manganese	7439-96-5	286		0.0365	0.507	1
10145	Phosphorus	7723-14-0	559		0.355	10.1	1
01662	Potassium	7440-09-7	3,120		11.4	50.7	1
01667	Sodium	7440-23-5	107		6.03	101	1
07968	Strontium	7440-24-6	25.1		0.0253	0.507	1
06969	Tin	7440-31-5	3.08	J	0.324	10.1	1
06970	Titanium	7440-32-6	956		0.0685	0.965	1
10146	Zirconium	7440-67-7	3.26	J	0.466	5.07	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-149-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA6-SS-0.0-0.5

LLI Sample # SW 6340795
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:15

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00149 SDG#: DE197-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.179	J	0.0735	0.199	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.45		0.0795	0.397	2
06126	Barium	7440-39-3	78.9		0.105	0.397	2
06127	Beryllium	7440-41-7	0.408		0.0159	0.0993	2
06128	Cadmium	7440-43-9	0.433		0.0437	0.0993	2
06131	Chromium	7440-47-3	21.8		0.119	0.397	2
06132	Cobalt	7440-48-4	5.59		0.0199	0.0993	2
06133	Copper	7440-50-8	15.5		0.0795	0.397	2
06135	Lead	7439-92-1	20.2		0.0101	0.199	2
06138	Molybdenum	7439-98-7	0.660		0.0497	0.0993	2
06139	Nickel	7440-02-0	12.6		0.0993	0.397	2
06141	Selenium	7782-49-2	0.191	J	0.0576	0.397	2
06142	Silver	7440-22-4	0.0746	J	0.0141	0.0993	2
06145	Thallium	7440-28-0	0.197		0.0298	0.0993	2
06148	Vanadium	7440-62-2	37.6		0.0219	0.0993	2
06149	Zinc	7440-66-6	102		0.556	2.98	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.128		0.0071	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.52	J	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.37		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.3		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-149-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA6-SS-0.0-0.5

LLI Sample # SW 6340795
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:15

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00149 SDG#: DE197-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11199SLB026	07/24/2011 18:57	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11199SLF026	07/19/2011 22:59	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11199SLF026	07/19/2011 07:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11199SLB026	07/18/2011 18:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111950013A	07/16/2011 00:31	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111970013A	07/29/2011 07:50	Melissa McDermott	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	111970013A	08/09/2011 18:17	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112000012A	07/21/2011 01:58	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111970013A	07/18/2011 10:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112000012A	07/19/2011 15:15	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111950013A	07/14/2011 20:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111930030A	07/14/2011 02:03	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111940001A	07/13/2011 14:50	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111990011A	07/21/2011 05:06	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111970011A	07/19/2011 19:29	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	111970011A	07/18/2011 10:20	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	111990011A	07/18/2011 18:15	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111930030A	07/13/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111940001A	07/13/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111945708004	07/22/2011 06:07	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111945708004	07/22/2011 06:07	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111945708004	07/22/2011 06:07	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111945708004	07/22/2011 06:07	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111945708004	07/22/2011 06:07	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111945708004	07/22/2011 06:07	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111945708004	07/22/2011 06:07	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111945708004	07/22/2011 06:07	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111945708004	07/22/2011 06:07	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111945708004	07/22/2011 06:07	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111945708004	07/22/2011 06:07	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111945708004	07/22/2011 06:07	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112045708001	07/25/2011 05:05	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111945708004	07/22/2011 06:07	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-149-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA6-SS-0.0-0.5

LLI Sample # SW 6340795
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:15

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00149 SDG#: DE197-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	111941026002A	07/14/2011 22:33	David K Beck	2
06125	Arsenic	SW-846 6020	1	111941026002A	07/14/2011 22:33	David K Beck	2
06126	Barium	SW-846 6020	1	111941026002D	07/14/2011 22:33	David K Beck	2
06127	Beryllium	SW-846 6020	1	111941026002A	07/14/2011 22:33	David K Beck	2
06128	Cadmium	SW-846 6020	1	111941026002A	07/14/2011 22:33	David K Beck	2
06131	Chromium	SW-846 6020	1	111941026002A	07/14/2011 22:33	David K Beck	2
06132	Cobalt	SW-846 6020	1	111941026002A	07/14/2011 22:33	David K Beck	2
06133	Copper	SW-846 6020	1	111941026002A	07/14/2011 22:33	David K Beck	2
06135	Lead	SW-846 6020	1	111941026002A	07/14/2011 22:33	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111941026002C	07/14/2011 22:33	David K Beck	2
06139	Nickel	SW-846 6020	1	111941026002A	07/14/2011 22:33	David K Beck	2
06141	Selenium	SW-846 6020	1	111941026002B	07/14/2011 22:33	David K Beck	2
06142	Silver	SW-846 6020	1	111941026002A	07/14/2011 22:33	David K Beck	2
06145	Thallium	SW-846 6020	1	111941026002A	07/14/2011 22:33	David K Beck	2
06148	Vanadium	SW-846 6020	1	111941026002A	07/14/2011 22:33	David K Beck	2
06149	Zinc	SW-846 6020	1	111941026002A	07/14/2011 22:33	David K Beck	2
00159	Mercury	SW-846 7471A	1	111945711007	07/14/2011 18:36	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111945708004	07/14/2011 09:49	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112045708001	07/24/2011 10:49	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111941026002	07/14/2011 10:04	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111945711007	07/14/2011 11:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11201284201A	07/25/2011 08:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11196284202A	07/21/2011 00:12	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11209243202A	07/30/2011 12:54	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11201284201A	07/20/2011 15:15	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11196284202A	07/15/2011 18:45	Alex M Rittle	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039402B	07/21/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11202243201A	07/21/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-297-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340796
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00297 SDG#: DE197-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	500	1
04688	Benzyl alcohol	100-51-6	170	U	170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170	1
04688	Carbazole	86-74-8	27	J	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	160	J	17	340	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	500	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-297-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340796
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00297 SDG#: DE197-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	17	U	17	170	1
04688	Pentachlorophenol	87-86-5	170	U	170	500	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
	The QC limits for 1,2,3,4-tetrahydronaphthalene are advisory only until sufficient data points can be obtained to calculate statistical limits.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	11	J	6.6	17	10
10138	Acenaphthylene	208-96-8	9.1	J	3.3	17	10
10138	Anthracene	120-12-7	47		3.3	17	10
10138	Benzo(a)anthracene	56-55-3	390		6.6	17	10
10138	Benzo(a)pyrene	50-32-8	530		6.6	17	10
10138	Benzo(b)fluoranthene	205-99-2	820		6.6	17	10
10138	Benzo(g,h,i)perylene	191-24-2	540		6.6	17	10
10138	Benzo(k)fluoranthene	207-08-9	300		6.6	17	10
10138	Di-n-butylphthalate	84-74-2	160	J	60	180	10
10138	Chrysene	218-01-9	490		3.3	17	10
10138	Dibenz(a,h)anthracene	53-70-3	95		6.6	17	10
10138	Fluoranthene	206-44-0	1,100		6.6	17	10
10138	Fluorene	86-73-7	7.5	J	6.6	17	10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	450		6.6	17	10
10138	1-Methylnaphthalene	90-12-0	6.6	U	6.6	17	10
10138	2-Methylnaphthalene	91-57-6	6.6	U	6.6	17	10
10138	Naphthalene	91-20-3	6.6	U	6.6	17	10
10138	N-Nitrosodimethylamine	62-75-9	6.6	U	6.6	17	10
10138	Phenanthrene	85-01-8	310		6.6	17	10
10138	Pyrene	129-00-0	680		6.6	17	10
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(a)pyrene						
	Reporting limits were raised due to interference from the sample matrix.						
	Di-n-butylphthalate was detected in the method blank at a concentration of 7.6 ug/kg. The blank value was not subtracted from the analytical result.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	2.4	U	2.4	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	18	U	18	18	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-297-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340796
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00297 SDG#: DE197-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	300	U	300	300	1
10401	MCPP (Mecoprop)	93-65-2	170	U	170	250	1
10401	2,4,5-T	93-76-5	0.62		0.083	0.17	1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17	1

The LCS recovery for dinoseb is outside the QC limits of 10-36% at 7%. Since dinoseb does not recover well with this method and the recovery is within our in-house statistical limits of 0-32%, the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	1.3	U	1.3	3.3	20
01363	Alpha BHC	319-84-6	0.69	U	0.69	3.3	20
01363	Beta BHC	319-85-7	1.2	U	1.2	3.3	20
01363	Gamma BHC - Lindane	58-89-9	0.69	U	0.69	3.3	20
01363	Chlordane	57-74-9	16	U	16	69	20
01363	p,p-DDD	72-54-8	6.7	U	6.7	34	100
01363	p,p-DDE	72-55-9	6.7	U	6.7	34	100
01363	p,p-DDT	50-29-3	200		6.7	34	100
01363	Delta BHC	319-86-8	0.73	U	0.73	3.3	20
01363	Dieldrin	60-57-1	60		6.7	34	100
01363	Endosulfan I	959-98-8	4.4	U	4.4	17	100
01363	Endosulfan II	33213-65-9	15	U	15	34	100
01363	Endosulfan Sulfate	1031-07-8	21	U	21	34	100
01363	Endrin	72-20-8	20	U	20	34	100
01363	Endrin Aldehyde	7421-93-4	14	U	14	34	100
01363	Endrin Ketone	53494-70-5	6.7	U	6.7	34	100
01363	Heptachlor	76-44-8	1.2	U	1.2	3.3	20
01363	Heptachlor Epoxide	1024-57-3	18	U	18	18	100
01363	Methoxychlor	72-43-5	34	U	34	170	100
01363	Mirex	2385-85-5	6.7	U	6.7	34	100
01363	Toxaphene	8001-35-2	44	U	44	130	20

The sample followed a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	200	U	200	670	200
10225	Aroclor 5442	12642-23-8	200	U	200	670	200
10225	Aroclor 5460	11126-42-4	3,300		200	670	200
10225	PCB-1016	12674-11-2	67	U	67	340	200
10225	PCB-1221	11104-28-2	67	U	67	340	200
10225	PCB-1232	11141-16-5	67	U	67	340	200
10225	PCB-1242	53469-21-9	67	U	67	340	200
10225	PCB-1248	12672-29-6	67	U	67	340	200
10225	PCB-1254	11097-69-1	2,600		67	340	200
10225	PCB-1260	11096-82-5	79	U	79	340	200

*=This limit was used in the evaluation of the final result

Sample Description: SL-297-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340796
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

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Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00297 SDG#: DE197-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	67	U	67	340	200
10225	PCB-1268	11100-14-4	67	U	67	340	200
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500	1
10501	Isopropanol	67-63-0	100	U	100	500	1
10501	Methanol	67-56-1	100	U	100	500	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10	1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10	1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	40	U	40	120	10
10199	EFH (C15-C20)	n.a.	42	J	40	120	10
10199	EFH (C21-C30)	n.a.	450		40	120	10
10199	EFH (C30 - C40)	n.a.	830		40	120	10
10199	EFH (C8-C11)	n.a.	40	U	40	120	10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,200		6.04	20.0	1
07914	Boron	7440-42-8	0.359	U	0.359	4.99	1
01650	Calcium	7440-70-2	6,820		2.50	20.0	1
01654	Iron	7439-89-6	27,800		13.0	99.9	5
01656	Lithium	7439-93-2	17.1		0.62	2.0	1
01657	Magnesium	7439-95-4	4,420		0.439	9.99	1
06958	Manganese	7439-96-5	336		0.0359	0.499	1
10145	Phosphorus	7723-14-0	518		0.350	9.99	1
01662	Potassium	7440-09-7	2,520		11.3	49.9	1
01667	Sodium	7440-23-5	193		5.94	99.9	1
07968	Strontium	7440-24-6	30.6		0.0250	0.499	1
06969	Tin	7440-31-5	4.79	J	0.320	9.99	1
06970	Titanium	7440-32-6	706		0.0695	0.979	1
10146	Zirconium	7440-67-7	4.88	J	0.459	4.99	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-297-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340796
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Suite 210
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00297 SDG#: DE197-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.29		0.0711	0.192	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.24		0.0768	0.384	2
06126	Barium	7440-39-3	75.2		0.102	0.384	2
06127	Beryllium	7440-41-7	0.418		0.0154	0.0961	2
06128	Cadmium	7440-43-9	2.39		0.0423	0.0961	2
06131	Chromium	7440-47-3	34.4		0.115	0.384	2
06132	Cobalt	7440-48-4	9.83		0.0192	0.0961	2
06133	Copper	7440-50-8	50.3		0.0768	0.384	2
06135	Lead	7439-92-1	78.3		0.0098	0.192	2
06138	Molybdenum	7439-98-7	5.63		0.0480	0.0961	2
06139	Nickel	7440-02-0	17.5		0.0961	0.384	2
06141	Selenium	7782-49-2	0.319	J	0.0557	0.384	2
06142	Silver	7440-22-4	0.197		0.0136	0.0961	2
06145	Thallium	7440-28-0	0.193		0.0288	0.0961	2
06148	Vanadium	7440-62-2	36.0		0.0211	0.0961	2
06149	Zinc	7440-66-6	796		2.69	14.4	10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.413		0.0069	0.0988	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.81	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	4.8		0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.90		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.85		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-297-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340796
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14420 Albemarle Point Place
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00297 SDG#: DE197-09BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11199SLB026	07/24/2011 15:13	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11199SLF026	07/19/2011 18:17	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11199SLF026	07/19/2011 07:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11199SLB026	07/18/2011 18:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111950013A	07/15/2011 23:09	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111970013A	08/09/2011 18:46	Melissa McDermott	100
01363	12a Pesticides by 8081A	SW-846 8081A	1	111970013A	08/09/2011 20:10	Melissa McDermott	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112000012A	07/20/2011 23:11	Sarah M Snyder	200
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111970013A	07/18/2011 10:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112000012A	07/19/2011 15:15	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111950013A	07/14/2011 20:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111930030A	07/14/2011 02:17	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111940001A	07/13/2011 15:03	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111990011A	07/21/2011 11:47	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111970011A	07/19/2011 19:54	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	111970011A	07/18/2011 10:20	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	111990011A	07/18/2011 18:15	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111930030A	07/13/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111940001A	07/13/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111945708004	07/22/2011 05:15	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111945708004	07/22/2011 05:15	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111945708004	07/22/2011 05:15	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111945708004	07/22/2011 19:32	John P Hook	5
01656	Lithium	SW-846 6010B	1	111945708004	07/22/2011 05:15	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111945708004	07/22/2011 05:15	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111945708004	07/22/2011 05:15	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111945708004	07/22/2011 05:15	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111945708004	07/22/2011 05:15	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111945708004	07/22/2011 05:15	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111945708004	07/22/2011 05:15	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111945708004	07/22/2011 05:15	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112045708001	07/25/2011 04:14	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111945708004	07/22/2011 05:15	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-297-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340796
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00297 SDG#: DE197-09BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	111941026002A	07/14/2011 21:51	David K Beck	2
06125	Arsenic	SW-846 6020	1	111941026002A	07/14/2011 21:51	David K Beck	2
06126	Barium	SW-846 6020	1	111941026002D	07/14/2011 21:51	David K Beck	2
06127	Beryllium	SW-846 6020	1	111941026002A	07/14/2011 21:51	David K Beck	2
06128	Cadmium	SW-846 6020	1	111941026002A	07/14/2011 21:51	David K Beck	2
06131	Chromium	SW-846 6020	1	111941026002A	07/14/2011 21:51	David K Beck	2
06132	Cobalt	SW-846 6020	1	111941026002A	07/14/2011 21:51	David K Beck	2
06133	Copper	SW-846 6020	1	111941026002A	07/14/2011 21:51	David K Beck	2
06135	Lead	SW-846 6020	1	111941026002A	07/14/2011 21:51	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111941026002C	07/14/2011 21:51	David K Beck	2
06139	Nickel	SW-846 6020	1	111941026002A	07/14/2011 21:51	David K Beck	2
06141	Selenium	SW-846 6020	1	111941026002B	07/14/2011 21:51	David K Beck	2
06142	Silver	SW-846 6020	1	111941026002A	07/14/2011 21:51	David K Beck	2
06145	Thallium	SW-846 6020	1	111941026002A	07/14/2011 21:51	David K Beck	2
06148	Vanadium	SW-846 6020	1	111941026002A	07/14/2011 21:51	David K Beck	2
06149	Zinc	SW-846 6020	1	111941026002A	07/22/2011 15:19	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	111945711007	07/14/2011 18:38	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111945708004	07/14/2011 09:49	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112045708001	07/24/2011 10:49	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111941026002	07/14/2011 10:04	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111945711007	07/14/2011 11:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11201284201A	07/25/2011 05:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11196284202A	07/20/2011 19:59	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11209243202A	07/30/2011 13:15	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11201284201A	07/20/2011 15:15	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11196284202A	07/15/2011 18:45	Alex M Rittle	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039402B	07/21/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11202243201A	07/21/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-297-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340797
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00297 SDG#: DE197-09MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,400		17	170	1
04688	Acenaphthylene	208-96-8	1,500		17	170	1
04688	Aniline	62-53-3	550		170	500	1
04688	Anthracene	120-12-7	1,600		17	170	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(a)anthracene	56-55-3	1,700		17	170	1
04688	Benzo(a)pyrene	50-32-8	1,700		17	170	1
04688	Benzo(b)fluoranthene	205-99-2	1,800		17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	2,200		17	170	1
04688	Benzo(k)fluoranthene	207-08-9	1,400		17	170	1
04688	Benzoic acid	65-85-0	260	J	170	500	1
04688	Benzyl alcohol	100-51-6	1,400		170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	1,600		17	170	1
04688	Butylbenzylphthalate	85-68-7	1,700		17	170	1
04688	Di-n-butylphthalate	84-74-2	1,600		17	170	1
04688	Carbazole	86-74-8	1,500		17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	1,400		34	170	1
04688	4-Chloroaniline	106-47-8	500		67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,500		17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,500		17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,100		17	170	1
04688	2-Chloronaphthalene	91-58-7	1,300		17	170	1
04688	2-Chlorophenol	95-57-8	1,400		17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,400		34	170	1
04688	Chrysene	218-01-9	1,600		17	170	1
04688	Dibenz(a,h)anthracene	53-70-3	1,800		17	170	1
04688	Dibenzofuran	132-64-9	1,400		17	170	1
04688	1,2-Dichlorobenzene	95-50-1	1,400		17	170	1
04688	1,3-Dichlorobenzene	541-73-1	1,400		17	170	1
04688	1,4-Dichlorobenzene	106-46-7	1,400		17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	190	J	100	340	1
04688	2,4-Dichlorophenol	120-83-2	1,400		17	170	1
04688	Diethylphthalate	84-66-2	1,500		17	170	1
04688	2,4-Dimethylphenol	105-67-9	1,500		34	170	1
04688	3,5-Dimethylphenol	108-68-9	1,500		34	170	1
04688	Dimethylphthalate	131-11-3	1,500		17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	260	J	170	500	1
04688	2,4-Dinitrophenol	51-28-5	360	J	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	1,300		34	170	1
04688	2,6-Dinitrotoluene	606-20-2	1,400		17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	1,600		17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		17	340	1
04688	Fluoranthene	206-44-0	1,700		17	170	1
04688	Fluorene	86-73-7	1,400		17	170	1
04688	Hexachlorobenzene	118-74-1	1,500		17	170	1
04688	Hexachlorobutadiene	87-68-3	1,500		67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	640		170	500	1
04688	Hexachloroethane	67-72-1	1,100		17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,000		17	170	1
04688	Isophorone	78-59-1	1,500		17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-297-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340797
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00297 SDG#: DE197-09MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,300		17	170	1
04688	2-Methylnaphthalene	91-57-6	1,400		17	170	1
04688	2-Methylphenol	95-48-7	1,400		34	170	1
04688	4-Methylphenol	106-44-5	1,300		34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,400		17	170	1
04688	2-Nitroaniline	88-74-4	1,600		17	170	1
04688	3-Nitroaniline	99-09-2	1,200		34	170	1
04688	4-Nitroaniline	100-01-6	1,200		67	170	1
04688	Nitrobenzene	98-95-3	1,500		17	170	1
04688	2-Nitrophenol	88-75-5	1,400		17	170	1
04688	4-Nitrophenol	100-02-7	1,300		170	500	1
04688	N-Nitrosodimethylamine	62-75-9	1,400		34	170	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,300		17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	1,700		17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,800		17	170	1
04688	Pentachlorophenol	87-86-5	810		170	500	1
04688	Phenanthrene	85-01-8	1,600		17	170	1
04688	Phenol	108-95-2	1,400		17	170	1
04688	Pyrene	129-00-0	1,600		17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,500		17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	1,400		34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	1,500		34	170	1
	The QC limits for 1,2,3,4-tetrahydronaphthalene are advisory only until sufficient data points can be obtained to calculate statistical limits.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	37		6.6	17	10
10138	Acenaphthylene	208-96-8	38		3.3	17	10
10138	Anthracene	120-12-7	61		3.3	17	10
10138	Benzo(a)anthracene	56-55-3	280		6.6	17	10
10138	Benzo(a)pyrene	50-32-8	410		6.6	17	10
10138	Benzo(b)fluoranthene	205-99-2	680		6.6	17	10
10138	Benzo(g,h,i)perylene	191-24-2	420		6.6	17	10
10138	Benzo(k)fluoranthene	207-08-9	230		6.6	17	10
10138	Butylbenzylphthalate	85-68-7	83	J	60	180	10
10138	Di-n-butylphthalate	84-74-2	220		60	180	10
10138	Chrysene	218-01-9	350		3.3	17	10
10138	Dibenz(a,h)anthracene	53-70-3	96		6.6	17	10
10138	Diethylphthalate	84-66-2	60	U	60	180	10
10138	Dimethylphthalate	131-11-3	60	U	60	180	10
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	300		60	180	10
10138	Fluoranthene	206-44-0	710		6.6	17	10
10138	Fluorene	86-73-7	37		6.6	17	10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	360		6.6	17	10

*=This limit was used in the evaluation of the final result

Sample Description: SL-297-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340797
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00297 SDG#: DE197-09MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	30		6.6	17	10
10138	2-Methylnaphthalene	91-57-6	30		6.6	17	10
10138	Naphthalene	91-20-3	34		6.6	17	10
10138	N-Nitrosodimethylamine	62-75-9	33		6.6	17	10
10138	Di-n-octylphthalate	117-84-0	96	J	60	180	10
10138	Phenanthrene	85-01-8	190		6.6	17	10
10138	Pyrene	129-00-0	440		6.6	17	10

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(a)pyrene

Reporting limits were raised due to interference from the sample matrix.

Di-n-butylphthalate was detected in the method blank at a concentration of 7.6 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	8.6		1.2	3.6	1
10401	Dalapon	75-99-0	7.6	J	4.4	9.1	1
10401	2,4-DB	94-82-6	22		0.63	1.7	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	6.4		0.81	1.7	1
10401	MCPA	94-74-6	1,400		77	250	1
10401	MCPP (Mecoprop)	93-65-2	610		76	250	1
10401	2,4,5-T	93-76-5	0.63		0.083	0.17	1
10401	2,4,5-TP	93-72-1	0.41		0.076	0.17	1

The LCS recovery for dinoseb is outside the QC limits of 10-36% at 7%. Since dinoseb does not recover well with this method and the recovery is within our in-house statistical limits of 0-32%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	1.3	U	1.3	3.3	20
01363	Alpha BHC	319-84-6	0.69	U	0.69	3.3	20
01363	Beta BHC	319-85-7	1.2	U	1.2	3.3	20
01363	Gamma BHC - Lindane	58-89-9	2.1	J	0.69	3.3	20
01363	Chlordane	57-74-9	16	U	16	69	20
01363	p,p-DDD	72-54-8	6.7	U	6.7	34	100
01363	p,p-DDE	72-55-9	6.7	U	6.7	34	100
01363	p,p-DDT	50-29-3	170		13	69	200
01363	Delta BHC	319-86-8	0.73	U	0.73	3.3	20
01363	Dieldrin	60-57-1	84		6.7	34	100
01363	Endosulfan I	959-98-8	4.4	U	4.4	17	100
01363	Endosulfan II	33213-65-9	17	U	17	34	100
01363	Endosulfan Sulfate	1031-07-8	22	U	22	34	100
01363	Endrin	72-20-8	32	U	32	34	100
01363	Endrin Aldehyde	7421-93-4	18	J	6.7	34	100
01363	Endrin Ketone	53494-70-5	6.7	U	6.7	34	100

*=This limit was used in the evaluation of the final result

Sample Description: SL-297-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340797
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00297 SDG#: DE197-09MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Heptachlor	76-44-8	1.2	U	1.2	3.3	20
01363	Heptachlor Epoxide	1024-57-3	21	U	21	21	100
01363	Methoxychlor	72-43-5	34	U	34	170	100
01363	Mirex	2385-85-5	6.7	U	6.7	34	100
01363	Toxaphene	8001-35-2	44	U	44	130	20
	The sample followed a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	200	U	200	670	200
10225	Aroclor 5442	12642-23-8	200	U	200	670	200
10225	Aroclor 5460	11126-42-4	3,200		200	670	200
10225	PCB-1016	12674-11-2	67	U	67	340	200
10225	PCB-1221	11104-28-2	67	U	67	340	200
10225	PCB-1232	11141-16-5	67	U	67	340	200
10225	PCB-1242	53469-21-9	67	U	67	340	200
10225	PCB-1248	12672-29-6	67	U	67	340	200
10225	PCB-1254	11097-69-1	2,100		67	340	200
10225	PCB-1260	11096-82-5	79	U	79	340	200
10225	PCB-1262	37324-23-5	67	U	67	340	200
10225	PCB-1268	11100-14-4	67	U	67	340	200
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,700		100	500	1
10501	Isopropanol	67-63-0	2,500		100	500	1
10501	Methanol	67-56-1	3,200		100	500	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	18		5.0	10	1
08283	Ethylene glycol	107-21-1	57		5.0	10	1
08283	Propylene glycol	57-55-6	85		5.0	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.3	J	1.2	3.5	1
10318	o-Terphenyl	84-15-1	1.2	J	1.1	3.5	1
10318	p-Terphenyl	92-94-4	1.5	J	1.4	3.5	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	40	U	40	120	10
10199	EFH (C15-C20)	n.a.	40	U	40	120	10

*=This limit was used in the evaluation of the final result

Sample Description: SL-297-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340797
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00297 SDG#: DE197-09MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C21-C30)	n.a.	490		40	120	10
10199	EFH (C30 - C40)	n.a.	890		40	120	10
10199	EFH (C8-C11)	n.a.	40	U	40	120	10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,500		6.10	20.2	1
07914	Boron	7440-42-8	178		0.363	5.04	1
01650	Calcium	7440-70-2	5,620		2.52	20.2	1
01654	Iron	7439-89-6	45,600		13.2	101	5
01656	Lithium	7439-93-2	115		0.63	2.0	1
01657	Magnesium	7439-95-4	4,620		0.444	10.1	1
06958	Manganese	7439-96-5	382		0.0363	0.504	1
10145	Phosphorus	7723-14-0	854		0.353	10.1	1
01662	Potassium	7440-09-7	3,390		11.4	50.4	1
01667	Sodium	7440-23-5	1,180		6.00	101	1
07968	Strontium	7440-24-6	120		0.0252	0.504	1
06969	Tin	7440-31-5	378		0.323	10.1	1
06970	Titanium	7440-32-6	1,030		0.0695	0.979	1
10146	Zirconium	7440-67-7	99.3		0.464	5.04	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	2.03		0.0725	0.196	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.66		0.0783	0.392	2
06126	Barium	7440-39-3	72.0		0.104	0.392	2
06127	Beryllium	7440-41-7	1.09		0.0157	0.0979	2
06128	Cadmium	7440-43-9	2.74		0.0431	0.0979	2
06131	Chromium	7440-47-3	51.5		0.118	0.392	2
06132	Cobalt	7440-48-4	54.4		0.0196	0.0979	2
06133	Copper	7440-50-8	67.9		0.0783	0.392	2
06135	Lead	7439-92-1	126		0.0499	0.979	10
06138	Molybdenum	7439-98-7	27.7		0.0490	0.0979	2
06139	Nickel	7440-02-0	24.6		0.0979	0.392	2
06141	Selenium	7782-49-2	2.27		0.0568	0.392	2
06142	Silver	7440-22-4	9.46		0.0139	0.0979	2
06145	Thallium	7440-28-0	0.547		0.0294	0.0979	2
06148	Vanadium	7440-62-2	40.8		0.0215	0.0979	2
06149	Zinc	7440-66-6	614		2.74	14.7	10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.577		0.0069	0.0979	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.3		0.81	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-297-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340797
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00297 SDG#: DE197-09MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	536	9.1	30.3	1
	SW-846 7199		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	35.5	1.0	5.1	5
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.85	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11199SLB026	07/24/2011 15:38	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11199SLF026	07/19/2011 18:48	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11199SLF026	07/19/2011 07:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11199SLB026	07/18/2011 18:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111950013A	07/15/2011 23:36	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111970013A	08/09/2011 19:00	Melissa McDermott	100
01363	12a Pesticides by 8081A	SW-846 8081A	1	111970013A	08/09/2011 20:24	Melissa McDermott	20
01363	12a Pesticides by 8081A	SW-846 8081A	1	111970013A	08/11/2011 11:53	Melissa McDermott	200
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112000012A	07/20/2011 23:29	Sarah M Snyder	200
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111970013A	07/18/2011 10:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112000012A	07/19/2011 15:15	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111950013A	07/14/2011 20:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111930030A	07/14/2011 02:32	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111940001A	07/13/2011 17:49	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111990011A	07/21/2011 06:34	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111970011A	07/19/2011 20:19	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	111970011A	07/18/2011 10:20	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	111990011A	07/18/2011 18:15	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111930030A	07/13/2011 19:00	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-297-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340797
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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00297 SDG#: DE197-09MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111940001A	07/13/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111945708004	07/22/2011 05:26	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111945708004	07/22/2011 05:26	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111945708004	07/22/2011 05:26	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111945708004	07/22/2011 19:39	John P Hook	5
01656	Lithium	SW-846 6010B	1	111945708004	07/22/2011 05:26	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111945708004	07/22/2011 05:26	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111945708004	07/22/2011 05:26	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111945708004	07/22/2011 05:26	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111945708004	07/22/2011 05:26	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111945708004	07/22/2011 05:26	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111945708004	07/22/2011 05:26	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111945708004	07/22/2011 05:26	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112045708001	07/25/2011 04:25	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111945708004	07/22/2011 05:26	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111941026002A	07/14/2011 22:00	David K Beck	2
06125	Arsenic	SW-846 6020	1	111941026002A	07/14/2011 22:00	David K Beck	2
06126	Barium	SW-846 6020	1	111941026002D	07/14/2011 22:00	David K Beck	2
06127	Beryllium	SW-846 6020	1	111941026002A	07/14/2011 22:00	David K Beck	2
06128	Cadmium	SW-846 6020	1	111941026002A	07/14/2011 22:00	David K Beck	2
06131	Chromium	SW-846 6020	1	111941026002A	07/14/2011 22:00	David K Beck	2
06132	Cobalt	SW-846 6020	1	111941026002A	07/14/2011 22:00	David K Beck	2
06133	Copper	SW-846 6020	1	111941026002A	07/14/2011 22:00	David K Beck	2
06135	Lead	SW-846 6020	1	111941026002A	07/22/2011 15:25	Choon Y Tian	10
06138	Molybdenum	SW-846 6020	1	111941026002C	07/14/2011 22:00	David K Beck	2
06139	Nickel	SW-846 6020	1	111941026002A	07/14/2011 22:00	David K Beck	2
06141	Selenium	SW-846 6020	1	111941026002B	07/14/2011 22:00	David K Beck	2
06142	Silver	SW-846 6020	1	111941026002A	07/14/2011 22:00	David K Beck	2
06145	Thallium	SW-846 6020	1	111941026002A	07/14/2011 22:00	David K Beck	2
06148	Vanadium	SW-846 6020	1	111941026002A	07/14/2011 22:00	David K Beck	2
06149	Zinc	SW-846 6020	1	111941026002A	07/22/2011 15:25	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	111945711007	07/14/2011 18:42	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111945708004	07/14/2011 09:49	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112045708001	07/24/2011 10:49	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111941026002	07/14/2011 10:04	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111945711007	07/14/2011 11:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11201284201A	07/25/2011 05:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11196284202A	07/20/2011 20:45	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11209243202A	07/30/2011 13:35	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11201284201A	07/20/2011 15:15	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11196284202A	07/15/2011 18:45	Alex M Rittle	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11202243201A	07/21/2011 13:45	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-297-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340797
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00297 SDG#: DE197-09MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-297-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340798
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00297 SDG#: DE197-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		17	170	1
04688	Acenaphthylene	208-96-8	1,500		17	170	1
04688	Aniline	62-53-3	350	J	170	500	1
04688	Anthracene	120-12-7	1,700		17	170	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(a)anthracene	56-55-3	1,800		17	170	1
04688	Benzo(a)pyrene	50-32-8	2,000		17	170	1
04688	Benzo(b)fluoranthene	205-99-2	2,100		17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	3,400		17	170	1
04688	Benzo(k)fluoranthene	207-08-9	1,500		17	170	1
04688	Benzoic acid	65-85-0	440	J	170	500	1
04688	Benzyl alcohol	100-51-6	1,200		170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		17	170	1
04688	Butylbenzylphthalate	85-68-7	1,500		17	170	1
04688	Di-n-butylphthalate	84-74-2	1,400		17	170	1
04688	Carbazole	86-74-8	1,400		17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	1,300		34	170	1
04688	4-Chloroaniline	106-47-8	580		67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,200		17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,300		17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	890		17	170	1
04688	2-Chloronaphthalene	91-58-7	1,300		17	170	1
04688	2-Chlorophenol	95-57-8	1,200		17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,300		34	170	1
04688	Chrysene	218-01-9	1,800		17	170	1
04688	Dibenz(a,h)anthracene	53-70-3	2,200		17	170	1
04688	Dibenzofuran	132-64-9	1,400		17	170	1
04688	1,2-Dichlorobenzene	95-50-1	1,400		17	170	1
04688	1,3-Dichlorobenzene	541-73-1	1,400		17	170	1
04688	1,4-Dichlorobenzene	106-46-7	1,400		17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	1,500		17	170	1
04688	Diethylphthalate	84-66-2	1,200		17	170	1
04688	2,4-Dimethylphenol	105-67-9	1,300		34	170	1
04688	3,5-Dimethylphenol	108-68-9	1,300		34	170	1
04688	Dimethylphthalate	131-11-3	1,100		17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	J	170	500	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	730		34	170	1
04688	2,6-Dinitrotoluene	606-20-2	810		17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	1,600		17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,100		17	340	1
04688	Fluoranthene	206-44-0	1,900		17	170	1
04688	Fluorene	86-73-7	1,500		17	170	1
04688	Hexachlorobenzene	118-74-1	2,300		17	170	1
04688	Hexachlorobutadiene	87-68-3	1,800		67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	300	J	170	500	1
04688	Hexachloroethane	67-72-1	950		17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,700		17	170	1
04688	Isophorone	78-59-1	1,400		17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-297-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340798
LLI Group # 1255672
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00297 SDG#: DE197-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,500		17	170	1
04688	2-Methylnaphthalene	91-57-6	1,500		17	170	1
04688	2-Methylphenol	95-48-7	1,200		34	170	1
04688	4-Methylphenol	106-44-5	1,100		34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600		17	170	1
04688	2-Nitroaniline	88-74-4	1,400		17	170	1
04688	3-Nitroaniline	99-09-2	750		34	170	1
04688	4-Nitroaniline	100-01-6	800		67	170	1
04688	Nitrobenzene	98-95-3	1,400		17	170	1
04688	2-Nitrophenol	88-75-5	890		17	170	1
04688	4-Nitrophenol	100-02-7	1,200		170	500	1
04688	N-Nitrosodimethylamine	62-75-9	1,100		34	170	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,100		17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	1,700		17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,800		17	170	1
04688	Pentachlorophenol	87-86-5	1,700		170	500	1
04688	Phenanthrene	85-01-8	1,700		17	170	1
04688	Phenol	108-95-2	1,100		17	170	1
04688	Pyrene	129-00-0	1,700		17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	1,600		34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	1,500		34	170	1
	The QC limits for 1,2,3,4-tetrahydronaphthalene are advisory only until sufficient data points can be obtained to calculate statistical limits.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	35		6.7	17	10
10138	Acenaphthylene	208-96-8	35		3.3	17	10
10138	Anthracene	120-12-7	63		3.3	17	10
10138	Benzo(a)anthracene	56-55-3	360		6.7	17	10
10138	Benzo(a)pyrene	50-32-8	470		6.7	17	10
10138	Benzo(b)fluoranthene	205-99-2	730		6.7	17	10
10138	Benzo(g,h,i)perylene	191-24-2	400		6.7	17	10
10138	Benzo(k)fluoranthene	207-08-9	290		6.7	17	10
10138	Butylbenzylphthalate	85-68-7	79	J	60	180	10
10138	Di-n-butylphthalate	84-74-2	170	J	60	180	10
10138	Chrysene	218-01-9	380		3.3	17	10
10138	Dibenz(a,h)anthracene	53-70-3	100		6.7	17	10
10138	Diethylphthalate	84-66-2	60	U	60	180	10
10138	Dimethylphthalate	131-11-3	60	U	60	180	10
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	190		60	180	10
10138	Fluoranthene	206-44-0	850		6.7	17	10
10138	Fluorene	86-73-7	34		6.7	17	10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	370		6.7	17	10

*=This limit was used in the evaluation of the final result

Sample Description: SL-297-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340798
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00297 SDG#: DE197-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	26		6.7	17	10
10138	2-Methylnaphthalene	91-57-6	27		6.7	17	10
10138	Naphthalene	91-20-3	29		6.7	17	10
10138	N-Nitrosodimethylamine	62-75-9	29		6.7	17	10
10138	Di-n-octylphthalate	117-84-0	91	J	60	180	10
10138	Phenanthrene	85-01-8	210		6.7	17	10
10138	Pyrene	129-00-0	510		6.7	17	10

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(a)pyrene

Reporting limits were raised due to interference from the sample matrix.

Di-n-butylphthalate was detected in the method blank at a concentration of 7.6 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	8.1		1.2	3.6	1
10401	Dalapon	75-99-0	9.4		4.4	9.1	1
10401	2,4-DB	94-82-6	25		0.63	1.7	1
10401	Dicamba	1918-00-9	0.84	J	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	5.9		0.81	1.7	1
10401	MCPA	94-74-6	1,000		77	250	1
10401	MCPP (Mecoprop)	93-65-2	650		76	250	1
10401	2,4,5-T	93-76-5	0.75		0.083	0.17	1
10401	2,4,5-TP	93-72-1	0.63		0.076	0.17	1

The LCS recovery for dinoseb is outside the QC limits of 10-36% at 7%. Since dinoseb does not recover well with this method and the recovery is within our in-house statistical limits of 0-32%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	1.3	U	1.3	3.3	20
01363	Alpha BHC	319-84-6	0.69	U	0.69	3.3	20
01363	Beta BHC	319-85-7	1.2	U	1.2	3.3	20
01363	Gamma BHC - Lindane	58-89-9	1.9	J	0.69	3.3	20
01363	Chlordane	57-74-9	16	U	16	69	20
01363	p,p-DDD	72-54-8	6.7	U	6.7	34	100
01363	p,p-DDE	72-55-9	6.7	U	6.7	34	100
01363	p,p-DDT	50-29-3	220		6.7	34	100
01363	Delta BHC	319-86-8	0.73	U	0.73	3.3	20
01363	Dieldrin	60-57-1	73		6.7	34	100
01363	Endosulfan I	959-98-8	4.4	U	4.4	17	100
01363	Endosulfan II	33213-65-9	14	U	14	34	100
01363	Endosulfan Sulfate	1031-07-8	6.7	U	6.7	34	100
01363	Endrin	72-20-8	29	U	29	34	100
01363	Endrin Aldehyde	7421-93-4	17	J	6.7	34	100
01363	Endrin Ketone	53494-70-5	6.7	U	6.7	34	100

*=This limit was used in the evaluation of the final result

Sample Description: SL-297-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340798
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00297 SDG#: DE197-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Heptachlor	76-44-8	1.2	U	1.2	3.3	20
01363	Heptachlor Epoxide	1024-57-3	18	U	18	18	100
01363	Methoxychlor	72-43-5	34	U	34	170	100
01363	Mirex	2385-85-5	6.7	U	6.7	34	100
01363	Toxaphene	8001-35-2	44	U	44	130	20
	The sample followed a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	200	U	200	670	200
10225	Aroclor 5442	12642-23-8	200	U	200	670	200
10225	Aroclor 5460	11126-42-4	2,300		200	670	200
10225	PCB-1016	12674-11-2	67	U	67	340	200
10225	PCB-1221	11104-28-2	67	U	67	340	200
10225	PCB-1232	11141-16-5	67	U	67	340	200
10225	PCB-1242	53469-21-9	67	U	67	340	200
10225	PCB-1248	12672-29-6	67	U	67	340	200
10225	PCB-1254	11097-69-1	980		67	340	200
10225	PCB-1260	11096-82-5	79	U	79	340	200
10225	PCB-1262	37324-23-5	67	U	67	340	200
10225	PCB-1268	11100-14-4	67	U	67	340	200
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,500		100	500	1
10501	Isopropanol	67-63-0	2,300		100	500	1
10501	Methanol	67-56-1	3,000		100	500	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	43		5.0	10	1
08283	Ethylene glycol	107-21-1	92		5.0	10	1
08283	Propylene glycol	57-55-6	130		5.0	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	0.15	J	0.10	3.5	1
10318	o-Terphenyl	84-15-1	0.19	J	0.10	3.5	1
10318	p-Terphenyl	92-94-4	0.80	J	0.71	3.5	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	40	U	40	120	10
10199	EFH (C15-C20)	n.a.	52	J	40	120	10

*=This limit was used in the evaluation of the final result

Sample Description: SL-297-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340798
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00297 SDG#: DE197-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C21-C30)	n.a.	610		40	120	10
10199	EFH (C30 - C40)	n.a.	1,100		40	120	10
10199	EFH (C8-C11)	n.a.	40	U	40	120	10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,900		5.92	19.6	1
07914	Boron	7440-42-8	188		0.353	4.90	1
01650	Calcium	7440-70-2	9,070		2.45	19.6	1
01654	Iron	7439-89-6	31,300		12.8	97.9	5
01656	Lithium	7439-93-2	116		0.61	2.0	1
01657	Magnesium	7439-95-4	4,460		0.431	9.79	1
06958	Manganese	7439-96-5	478		0.0353	0.490	1
10145	Phosphorus	7723-14-0	587		0.343	9.79	1
01662	Potassium	7440-09-7	3,530		11.1	49.0	1
01667	Sodium	7440-23-5	1,250		5.83	97.9	1
07968	Strontium	7440-24-6	131		0.0245	0.490	1
06969	Tin	7440-31-5	382		0.313	9.79	1
06970	Titanium	7440-32-6	1,010		0.0695	0.979	1
10146	Zirconium	7440-67-7	102		0.450	4.90	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.71		0.0746	0.202	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.13		0.0807	0.403	2
06126	Barium	7440-39-3	84.8		0.107	0.403	2
06127	Beryllium	7440-41-7	1.18		0.0161	0.101	2
06128	Cadmium	7440-43-9	3.07		0.0444	0.101	2
06131	Chromium	7440-47-3	46.0		0.121	0.403	2
06132	Cobalt	7440-48-4	58.4		0.0202	0.101	2
06133	Copper	7440-50-8	54.8		0.0807	0.403	2
06135	Lead	7439-92-1	83.8		0.0103	0.202	2
06138	Molybdenum	7439-98-7	16.3		0.0504	0.101	2
06139	Nickel	7440-02-0	35.8		0.101	0.403	2
06141	Selenium	7782-49-2	2.21		0.0585	0.403	2
06142	Silver	7440-22-4	10.1		0.0143	0.101	2
06145	Thallium	7440-28-0	0.532		0.0303	0.101	2
06148	Vanadium	7440-62-2	54.1		0.0222	0.101	2
06149	Zinc	7440-66-6	730		2.82	15.1	10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.543		0.0071	0.100	1
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	518		9.1	30.3	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-297-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340798
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00297 SDG#: DE197-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.85	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11199SLB026	07/24/2011 16:03	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11199SLF026	07/19/2011 19:20	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11199SLF026	07/19/2011 07:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11199SLB026	07/18/2011 18:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111950013A	07/16/2011 00:04	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111970013A	08/09/2011 19:14	Melissa McDermott	100
01363	12a Pesticides by 8081A	SW-846 8081A	1	111970013A	08/09/2011 20:38	Melissa McDermott	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112000012A	07/20/2011 23:48	Sarah M Snyder	200
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111970013A	07/18/2011 10:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112000012A	07/19/2011 15:15	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111950013A	07/14/2011 20:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111930030A	07/14/2011 02:47	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111940001A	07/13/2011 18:02	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111990011A	07/21/2011 07:19	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111970011A	07/19/2011 20:45	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	111970011A	07/18/2011 10:20	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	111990011A	07/18/2011 18:15	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111930030A	07/13/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111940001A	07/13/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111945708004	07/22/2011 05:30	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111945708004	07/22/2011 05:30	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111945708004	07/22/2011 05:30	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111945708004	07/22/2011 19:42	John P Hook	5
01656	Lithium	SW-846 6010B	1	111945708004	07/22/2011 05:30	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111945708004	07/22/2011 05:30	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-297-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340798
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00297 SDG#: DE197-09MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	111945708004	07/22/2011 05:30	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111945708004	07/22/2011 05:30	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111945708004	07/22/2011 05:30	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111945708004	07/22/2011 05:30	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111945708004	07/22/2011 05:30	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111945708004	07/22/2011 05:30	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112045708001	07/25/2011 04:29	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111945708004	07/22/2011 05:30	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111941026002A	07/14/2011 22:03	David K Beck	2
06125	Arsenic	SW-846 6020	1	111941026002A	07/14/2011 22:03	David K Beck	2
06126	Barium	SW-846 6020	1	111941026002D	07/14/2011 22:03	David K Beck	2
06127	Beryllium	SW-846 6020	1	111941026002A	07/14/2011 22:03	David K Beck	2
06128	Cadmium	SW-846 6020	1	111941026002A	07/14/2011 22:03	David K Beck	2
06131	Chromium	SW-846 6020	1	111941026002A	07/14/2011 22:03	David K Beck	2
06132	Cobalt	SW-846 6020	1	111941026002A	07/14/2011 22:03	David K Beck	2
06133	Copper	SW-846 6020	1	111941026002A	07/14/2011 22:03	David K Beck	2
06135	Lead	SW-846 6020	1	111941026002A	07/14/2011 22:03	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111941026002C	07/14/2011 22:03	David K Beck	2
06139	Nickel	SW-846 6020	1	111941026002A	07/14/2011 22:03	David K Beck	2
06141	Selenium	SW-846 6020	1	111941026002B	07/14/2011 22:03	David K Beck	2
06142	Silver	SW-846 6020	1	111941026002A	07/14/2011 22:03	David K Beck	2
06145	Thallium	SW-846 6020	1	111941026002A	07/14/2011 22:03	David K Beck	2
06148	Vanadium	SW-846 6020	1	111941026002A	07/14/2011 22:03	David K Beck	2
06149	Zinc	SW-846 6020	1	111941026002A	07/22/2011 15:27	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	111945711007	07/14/2011 18:44	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111945708004	07/14/2011 09:49	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112045708001	07/24/2011 10:49	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111941026002	07/14/2011 10:04	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111945711007	07/14/2011 11:30	James L Mertz	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11196284202A	07/20/2011 21:08	Elyse P Brunstetter	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11196284202A	07/15/2011 18:45	Alex M Rittle	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-297-SA6-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340799
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00297 SDG#: DE197-09DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,700		5.87	19.4	1
07914	Boron	7440-42-8	0.349	U	0.349	4.85	1
01650	Calcium	7440-70-2	8,290		2.42	19.4	1
01654	Iron	7439-89-6	22,300		2.53	19.4	1
01656	Lithium	7439-93-2	16.4		0.60	1.9	1
01657	Magnesium	7439-95-4	4,260		0.427	9.70	1
06958	Manganese	7439-96-5	262		0.0349	0.485	1
10145	Phosphorus	7723-14-0	522		0.339	9.70	1
01662	Potassium	7440-09-7	2,460		11.0	48.5	1
01667	Sodium	7440-23-5	153		5.77	97.0	1
07968	Strontium	7440-24-6	27.2		0.0242	0.485	1
06969	Tin	7440-31-5	4.08	J	0.310	9.70	1
06970	Titanium	7440-32-6	664		0.0689	0.970	1
10146	Zirconium	7440-67-7	4.09	J	0.446	4.85	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	2.21		0.0718	0.194	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.26		0.0776	0.388	2
06126	Barium	7440-39-3	84.8		0.103	0.388	2
06127	Beryllium	7440-41-7	0.388		0.0155	0.0970	2
06128	Cadmium	7440-43-9	2.44		0.0427	0.0970	2
06131	Chromium	7440-47-3	40.6		0.116	0.388	2
06132	Cobalt	7440-48-4	10.4		0.0194	0.0970	2
06133	Copper	7440-50-8	63.0		0.0776	0.388	2
06135	Lead	7439-92-1	144		0.0495	0.970	10
06138	Molybdenum	7439-98-7	22.2		0.0485	0.0970	2
06139	Nickel	7440-02-0	18.0		0.0970	0.388	2
06141	Selenium	7782-49-2	0.210	J	0.0562	0.388	2
06142	Silver	7440-22-4	0.102		0.0138	0.0970	2
06145	Thallium	7440-28-0	0.158		0.0291	0.0970	2
06148	Vanadium	7440-62-2	36.0		0.0213	0.0970	2
06149	Zinc	7440-66-6	704		2.72	14.5	10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.271		0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.81	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	2.8		0.20	1.0	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-297-SA6-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340799
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00297 SDG#: DE197-09DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.89	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11626	28a Moisture Content by 160.3	n.a.	0.89	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
11625	Moisture Content by 160.3	n.a.	0.85	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111945708004	07/22/2011 05:23	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111945708004	07/22/2011 05:23	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111945708004	07/22/2011 05:23	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111945708004	07/22/2011 05:23	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111945708004	07/22/2011 05:23	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111945708004	07/22/2011 05:23	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111945708004	07/22/2011 05:23	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111945708004	07/22/2011 05:23	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111945708004	07/22/2011 05:23	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111945708004	07/22/2011 05:23	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111945708004	07/22/2011 05:23	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111945708004	07/22/2011 05:23	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112045708001	07/25/2011 04:21	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111945708004	07/22/2011 05:23	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111941026002A	07/14/2011 21:57	David K Beck	2
06125	Arsenic	SW-846 6020	1	111941026002A	07/14/2011 21:57	David K Beck	2
06126	Barium	SW-846 6020	1	111941026002D	07/14/2011 21:57	David K Beck	2
06127	Beryllium	SW-846 6020	1	111941026002A	07/14/2011 21:57	David K Beck	2
06128	Cadmium	SW-846 6020	1	111941026002A	07/14/2011 21:57	David K Beck	2
06131	Chromium	SW-846 6020	1	111941026002A	07/14/2011 21:57	David K Beck	2
06132	Cobalt	SW-846 6020	1	111941026002A	07/14/2011 21:57	David K Beck	2
06133	Copper	SW-846 6020	1	111941026002A	07/14/2011 21:57	David K Beck	2
06135	Lead	SW-846 6020	1	111941026002A	07/22/2011 15:23	Choon Y Tian	10
06138	Molybdenum	SW-846 6020	1	111941026002C	07/14/2011 21:57	David K Beck	2
06139	Nickel	SW-846 6020	1	111941026002A	07/14/2011 21:57	David K Beck	2
06141	Selenium	SW-846 6020	1	111941026002B	07/14/2011 21:57	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-297-SA6-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340799
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00297 SDG#: DE197-09DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	111941026002A	07/14/2011 21:57	David K Beck	2
06145	Thallium	SW-846 6020	1	111941026002A	07/14/2011 21:57	David K Beck	2
06148	Vanadium	SW-846 6020	1	111941026002A	07/14/2011 21:57	David K Beck	2
06149	Zinc	SW-846 6020	1	111941026002A	07/22/2011 15:23	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	111945711007	07/14/2011 18:41	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111945708004	07/14/2011 09:49	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112045708001	07/24/2011 10:49	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111941026002	07/14/2011 10:04	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111945711007	07/14/2011 11:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11201284201A	07/25/2011 05:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11196284202A	07/20/2011 20:22	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11209243202A	07/30/2011 14:08	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11201284201A	07/20/2011 15:15	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11196284202A	07/15/2011 18:45	Alex M Rittle	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039402B	07/21/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11202243201A	07/21/2011 13:45	Yolunder Y Bunch	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-292-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-292-SA6-SS-0.0-0.5

LLI Sample # SW 6340800
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 12:00

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00292 SDG#: DE197-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	66	J	17	170	1
04688	Acenaphthylene	208-96-8	41	J	17	170	1
04688	Aniline	62-53-3	170	U	170	510	1
04688	Anthracene	120-12-7	240		17	170	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(a)anthracene	56-55-3	1,000		17	170	1
04688	Benzo(a)pyrene	50-32-8	930		17	170	1
04688	Benzo(b)fluoranthene	205-99-2	1,400		17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	660		17	170	1
04688	Benzo(k)fluoranthene	207-08-9	620		17	170	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Butylbenzylphthalate	85-68-7	25	J	17	170	1
04688	Di-n-butylphthalate	84-74-2	130	J	17	170	1
04688	Carbazole	86-74-8	210		17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Chrysene	218-01-9	1,100		17	170	1
04688	Dibenz(a,h)anthracene	53-70-3	180		17	170	1
04688	Dibenzofuran	132-64-9	26	J	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	880		17	340	1
04688	Fluoranthene	206-44-0	3,000		17	170	1
04688	Fluorene	86-73-7	60	J	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	650		17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-292-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-292-SA6-SS-0.0-0.5

LLI Sample # SW 6340800
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 12:00

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00292 SDG#: DE197-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenanthrene	85-01-8	1,600		17	170	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Pyrene	129-00-0	2,200		17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
	The QC limits for 1,2,3,4-tetrahydronaphthalene are advisory only until sufficient data points can be obtained to calculate statistical limits.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	6.7	U	6.7	17	10
10138	2-Methylnaphthalene	91-57-6	6.7	U	6.7	17	10
10138	Naphthalene	91-20-3	6.7	U	6.7	17	10
10138	N-Nitrosodimethylamine	62-75-9	6.7	U	6.7	17	10
10138	Di-n-octylphthalate	117-84-0	68	J	61	180	10
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2	1
10401	2,4-DB	94-82-6	9.6		0.63	1.7	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7	1
10401	MCPA	94-74-6	78	U	78	260	1
10401	MCPP (Mecoprop)	93-65-2	210	U	210	260	1
10401	2,4,5-T	93-76-5	0.77		0.084	0.17	1
10401	2,4,5-TP	93-72-1	0.077	J	0.077	0.17	1
	The LCS recovery for dinoseb is outside the QC limits of 10-36% at 7%. Since dinoseb does not recover well with this method and the recovery is within our in-house statistical limits of 0-32%, the data is reported.						

Sample Description: SL-292-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-292-SA6-SS-0.0-0.5

LLI Sample # SW 6340800
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 12:00

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00292 SDG#: DE197-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	1.7	U	1.7	4.2	25
01363	Alpha BHC	319-84-6	1.7	U	1.7	8.5	50
01363	Beta BHC	319-85-7	3.1	U	3.1	8.5	50
01363	Gamma BHC - Lindane	58-89-9	1.7	U	1.7	8.5	50
01363	Chlordane	57-74-9	20	U	20	87	25
01363	p,p-DDD	72-54-8	3.4	J	1.7	8.7	25
01363	p,p-DDE	72-55-9	1.7	U	1.7	8.7	25
01363	p,p-DDT	50-29-3	9.4		1.7	8.7	25
01363	Delta BHC	319-86-8	1.8	U	1.8	8.5	50
01363	Dieldrin	60-57-1	2.6	J	1.7	8.7	25
01363	Endosulfan I	959-98-8	1.1	U	1.1	4.2	25
01363	Endosulfan II	33213-65-9	1.7	U	1.7	8.7	25
01363	Endosulfan Sulfate	1031-07-8	1.7	U	1.7	8.7	25
01363	Endrin	72-20-8	1.7	U	1.7	8.7	25
01363	Endrin Aldehyde	7421-93-4	1.7	U	1.7	8.7	25
01363	Endrin Ketone	53494-70-5	1.7	U	1.7	8.7	25
01363	Heptachlor	76-44-8	1.5	U	1.5	4.2	25
01363	Heptachlor Epoxide	1024-57-3	0.87	U	0.87	4.2	25
01363	Methoxychlor	72-43-5	8.7	U	8.7	42	25
01363	Mirex	2385-85-5	1.7	U	1.7	8.7	25
01363	Toxaphene	8001-35-2	56	U	56	170	25
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	51	U	51	170	50
10225	Aroclor 5442	12642-23-8	51	U	51	170	50
10225	Aroclor 5460	11126-42-4	280		51	170	50
10225	PCB-1016	12674-11-2	17	U	17	87	50
10225	PCB-1221	11104-28-2	17	U	17	87	50
10225	PCB-1232	11141-16-5	17	U	17	87	50
10225	PCB-1242	53469-21-9	17	U	17	87	50
10225	PCB-1248	12672-29-6	17	U	17	87	50
10225	PCB-1254	11097-69-1	150		17	87	50
10225	PCB-1260	11096-82-5	20	U	20	87	50
10225	PCB-1262	37324-23-5	17	U	17	87	50
10225	PCB-1268	11100-14-4	17	U	17	87	50
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510	1
10501	Isopropanol	67-63-0	100	U	100	510	1
10501	Methanol	67-56-1	100	U	100	510	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-292-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-292-SA6-SS-0.0-0.5

LLI Sample # SW 6340800
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 12:00

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00292 SDG#: DE197-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10	1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	20	U	20	61	5
10199	EFH (C15-C20)	n.a.	20	U	20	61	5
10199	EFH (C21-C30)	n.a.	140		20	61	5
10199	EFH (C30 - C40)	n.a.	350		20	61	5
10199	EFH (C8-C11)	n.a.	20	U	20	61	5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,200		6.18	20.4	1
07914	Boron	7440-42-8	0.368	U	0.368	5.11	1
01650	Calcium	7440-70-2	7,910		2.55	20.4	1
01654	Iron	7439-89-6	20,500		2.67	20.4	1
01656	Lithium	7439-93-2	23.1		0.63	2.0	1
01657	Magnesium	7439-95-4	4,930		0.449	10.2	1
06958	Manganese	7439-96-5	247		0.0368	0.511	1
10145	Phosphorus	7723-14-0	522		0.358	10.2	1
01662	Potassium	7440-09-7	3,210		11.5	51.1	1
01667	Sodium	7440-23-5	127		6.08	102	1
07968	Strontium	7440-24-6	29.1		0.0255	0.511	1
06969	Tin	7440-31-5	3.11	J	0.327	10.2	1
06970	Titanium	7440-32-6	778		0.0711	1.00	1
10146	Zirconium	7440-67-7	3.78	J	0.470	5.11	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.420		0.0748	0.202	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.17		0.0809	0.405	2
06126	Barium	7440-39-3	82.7		0.107	0.405	2
06127	Beryllium	7440-41-7	0.468		0.0162	0.101	2
06128	Cadmium	7440-43-9	1.41		0.0445	0.101	2
06131	Chromium	7440-47-3	20.7		0.121	0.405	2
06132	Cobalt	7440-48-4	5.73		0.0202	0.101	2
06133	Copper	7440-50-8	19.2		0.0809	0.405	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-292-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-292-SA6-SS-0.0-0.5

LLI Sample # SW 6340800
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 12:00

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00292 SDG#: DE197-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	32.6		0.0103	0.202	2
06138	Molybdenum	7439-98-7	1.17		0.0506	0.101	2
06139	Nickel	7440-02-0	12.0		0.101	0.405	2
06141	Selenium	7782-49-2	0.238	J	0.0587	0.405	2
06142	Silver	7440-22-4	0.0759	J	0.0144	0.101	2
06145	Thallium	7440-28-0	0.209		0.0303	0.101	2
06148	Vanadium	7440-62-2	36.6		0.0222	0.101	2
06149	Zinc	7440-66-6	221		1.42	7.59	5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0820	J	0.0070	0.0998	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.82	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.54		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.1		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11199SLB026	07/24/2011 19:22	Linda M Hartenstine	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-292-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-292-SA6-SS-0.0-0.5

LLI Sample # SW 6340800
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 12:00

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00292 SDG#: DE197-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11199SLF026	07/19/2011 23:30	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11199SLF026	07/19/2011 07:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11199SLB026	07/18/2011 18:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111950013A	07/16/2011 00:58	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111970013A	07/29/2011 08:36	Melissa McDermott	50
01363	12a Pesticides by 8081A	SW-846 8081A	1	111970013A	08/09/2011 22:09	Melissa McDermott	25
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112000012A	07/21/2011 02:16	Sarah M Snyder	50
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111970013A	07/18/2011 10:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112000012A	07/19/2011 15:15	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111950013A	07/14/2011 20:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111930030A	07/14/2011 03:02	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111940001A	07/13/2011 15:15	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111990011A	07/21/2011 08:48	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111970011A	07/20/2011 18:10	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	111970011A	07/18/2011 10:20	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	111990011A	07/18/2011 18:15	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111930030A	07/13/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111940001A	07/13/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111945708004	07/22/2011 06:11	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111945708004	07/22/2011 06:11	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111945708004	07/22/2011 06:11	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111945708004	07/22/2011 06:11	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111945708004	07/22/2011 06:11	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111945708004	07/22/2011 06:11	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111945708004	07/22/2011 06:11	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111945708004	07/22/2011 06:11	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111945708004	07/22/2011 06:11	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111945708004	07/22/2011 06:11	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111945708004	07/22/2011 06:11	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111945708004	07/22/2011 06:11	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112045708001	07/25/2011 05:08	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111945708004	07/22/2011 06:11	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111941026002A	07/14/2011 22:36	David K Beck	2
06125	Arsenic	SW-846 6020	1	111941026002A	07/14/2011 22:36	David K Beck	2
06126	Barium	SW-846 6020	1	111941026002D	07/14/2011 22:36	David K Beck	2
06127	Beryllium	SW-846 6020	1	111941026002A	07/14/2011 22:36	David K Beck	2
06128	Cadmium	SW-846 6020	1	111941026002A	07/14/2011 22:36	David K Beck	2
06131	Chromium	SW-846 6020	1	111941026002A	07/14/2011 22:36	David K Beck	2
06132	Cobalt	SW-846 6020	1	111941026002A	07/14/2011 22:36	David K Beck	2
06133	Copper	SW-846 6020	1	111941026002A	07/14/2011 22:36	David K Beck	2
06135	Lead	SW-846 6020	1	111941026002A	07/14/2011 22:36	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-292-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-292-SA6-SS-0.0-0.5

LLI Sample # SW 6340800
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 12:00

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00292 SDG#: DE197-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111941026002C	07/14/2011 22:36	David K Beck	2
06139	Nickel	SW-846 6020	1	111941026002A	07/14/2011 22:36	David K Beck	2
06141	Selenium	SW-846 6020	1	111941026002B	07/14/2011 22:36	David K Beck	2
06142	Silver	SW-846 6020	1	111941026002A	07/14/2011 22:36	David K Beck	2
06145	Thallium	SW-846 6020	1	111941026002A	07/14/2011 22:36	David K Beck	2
06148	Vanadium	SW-846 6020	1	111941026002A	07/14/2011 22:36	David K Beck	2
06149	Zinc	SW-846 6020	1	111941026002A	07/22/2011 15:31	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	111945711007	07/14/2011 18:45	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111945708004	07/14/2011 09:49	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112045708001	07/24/2011 10:49	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111941026002	07/14/2011 10:04	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111945711007	07/14/2011 11:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11201284201A	07/25/2011 08:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11196284202A	07/21/2011 00:35	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11209243202A	07/30/2011 14:22	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11201284201A	07/20/2011 15:15	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11196284202A	07/15/2011 18:45	Alex M Rittle	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039402B	07/21/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11202243201A	07/21/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-298-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA6-SS-0.0-0.5

LLI Sample # SW 6340801
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 08:32

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00298 SDG#: DE197-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(g,h,i)perylene	191-24-2	140	J	17	170	1
04688	Benzo(k)fluoranthene	207-08-9	100	J	17	170	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170	1
04688	Carbazole	86-74-8	41	J	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenz(a,h)anthracene	53-70-3	36	J	17	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	3,200		17	340	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	130	J	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-298-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA6-SS-0.0-0.5

LLI Sample # SW 6340801
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 08:32

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00298 SDG#: DE197-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	180		17	170	1
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
	The QC limits for 1,2,3,4-tetrahydronaphthalene are advisory only until sufficient data points can be obtained to calculate statistical limits.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	15	J	6.7	17	10
10138	Acenaphthylene	208-96-8	3.3	U	3.3	17	10
10138	Anthracene	120-12-7	30		3.3	17	10
10138	Benzo(a)anthracene	56-55-3	160		6.7	17	10
10138	Benzo(a)pyrene	50-32-8	180		6.7	17	10
10138	Benzo(b)fluoranthene	205-99-2	280		6.7	17	10
10138	Di-n-butylphthalate	84-74-2	190		60	180	10
10138	Chrysene	218-01-9	180		3.3	17	10
10138	Fluoranthene	206-44-0	350		6.7	17	10
10138	Fluorene	86-73-7	8.0	J	6.7	17	10
10138	1-Methylnaphthalene	90-12-0	6.7	U	6.7	17	10
10138	2-Methylnaphthalene	91-57-6	6.7	U	6.7	17	10
10138	Naphthalene	91-20-3	6.7	U	6.7	17	10
10138	N-Nitrosodimethylamine	62-75-9	6.7	U	6.7	17	10
10138	Phenanthrene	85-01-8	150		6.7	17	10
10138	Pyrene	129-00-0	290		6.7	17	10
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(a)pyrene						
	Reporting limits were raised due to interference from the sample matrix.						
	Di-n-butylphthalate was detected in the method blank at a concentration of 7.6 ug/kg. The blank value was not subtracted from the analytical result.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1	1
10401	2,4-DB	94-82-6	1.5	U	1.5	1.7	1
10401	Dicamba	1918-00-9	0.69	J	0.41	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-298-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA6-SS-0.0-0.5

LLI Sample # SW 6340801
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 08:32

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00298 SDG#: DE197-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	190	J	77	250	1
10401	MCPP (Mecoprop)	93-65-2	980		76	250	1
10401	2,4,5-T	93-76-5	0.18	U	0.18	0.18	1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17	1

The LCS recovery for dinoseb is outside the QC limits of 10-36% at 7%. Since dinoseb does not recover well with this method and the recovery is within our in-house statistical limits of 0-32%, the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	1.3	U	1.3	3.4	20
01363	Alpha BHC	319-84-6	0.69	U	0.69	3.4	20
01363	Beta BHC	319-85-7	1.2	U	1.2	3.4	20
01363	Gamma BHC - Lindane	58-89-9	0.69	U	0.69	3.4	20
01363	Chlordane	57-74-9	39	J	16	69	20
01363	p,p-DDD	72-54-8	2.0	U	2.0	6.9	20
01363	p,p-DDE	72-55-9	13		1.3	6.9	20
01363	p,p-DDT	50-29-3	51		3.4	17	50
01363	Delta BHC	319-86-8	0.73	U	0.73	3.4	20
01363	Dieldrin	60-57-1	16		1.3	6.9	20
01363	Endosulfan I	959-98-8	0.89	U	0.89	3.4	20
01363	Endosulfan II	33213-65-9	5.5	U	5.5	6.9	20
01363	Endosulfan Sulfate	1031-07-8	1.3	U	1.3	6.9	20
01363	Endrin	72-20-8	5.3	U	5.3	6.9	20
01363	Endrin Aldehyde	7421-93-4	5.8	J	1.3	6.9	20
01363	Endrin Ketone	53494-70-5	1.3	U	1.3	6.9	20
01363	Heptachlor	76-44-8	1.2	U	1.2	3.4	20
01363	Heptachlor Epoxide	1024-57-3	5.3	U	5.3	5.3	20
01363	Methoxychlor	72-43-5	6.9	U	6.9	34	20
01363	Mirex	2385-85-5	1.8	J	1.3	6.9	20
01363	Toxaphene	8001-35-2	45	U	45	130	20

The sample followed a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17	5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17	5
10225	Aroclor 5460	11126-42-4	5.1	U	5.1	17	5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.6	5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6	5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6	5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6	5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6	5
10225	PCB-1254	11097-69-1	1.7	U	1.7	8.6	5
10225	PCB-1260	11096-82-5	2.0	U	2.0	8.6	5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-298-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA6-SS-0.0-0.5

LLI Sample # SW 6340801
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 08:32

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00298 SDG#: DE197-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6	5
	Reporting limits were raised due to interference from the sample matrix.						
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510	1
10501	Isopropanol	67-63-0	100	U	100	510	1
10501	Methanol	67-56-1	100	U	100	510	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10	1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10	1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	8.1	U	8.1	24	2
10199	EFH (C15-C20)	n.a.	8.1	U	8.1	24	2
10199	EFH (C21-C30)	n.a.	86		8.1	24	2
10199	EFH (C30 - C40)	n.a.	250		8.1	24	2
10199	EFH (C8-C11)	n.a.	8.1	U	8.1	24	2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,000		6.14	20.3	1
07914	Boron	7440-42-8	0.365	U	0.365	5.08	1
01650	Calcium	7440-70-2	4,860		2.54	20.3	1
01654	Iron	7439-89-6	23,400		2.65	20.3	1
01656	Lithium	7439-93-2	18.7		0.63	2.0	1
01657	Magnesium	7439-95-4	4,500		0.447	10.2	1
06958	Manganese	7439-96-5	239		0.0365	0.508	1
10145	Phosphorus	7723-14-0	527		0.355	10.2	1
01662	Potassium	7440-09-7	2,490		11.5	50.8	1
01667	Sodium	7440-23-5	127		6.04	102	1
07968	Strontium	7440-24-6	21.8		0.0254	0.508	1
06969	Tin	7440-31-5	3.47	J	0.325	10.2	1
06970	Titanium	7440-32-6	881		0.0707	0.995	1
10146	Zirconium	7440-67-7	3.46	J	0.467	5.08	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.774		0.0729	0.197	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-298-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA6-SS-0.0-0.5

LLI Sample # SW 6340801
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 08:32

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00298 SDG#: DE197-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.79		0.0789	0.394	2
06126	Barium	7440-39-3	75.0		0.104	0.394	2
06127	Beryllium	7440-41-7	0.423		0.0158	0.0986	2
06128	Cadmium	7440-43-9	1.30		0.0434	0.0986	2
06131	Chromium	7440-47-3	61.0		0.118	0.394	2
06132	Cobalt	7440-48-4	6.16		0.0197	0.0986	2
06133	Copper	7440-50-8	27.1		0.0789	0.394	2
06135	Lead	7439-92-1	48.8		0.0101	0.197	2
06138	Molybdenum	7439-98-7	1.70		0.0493	0.0986	2
06139	Nickel	7440-02-0	18.2		0.0986	0.394	2
06141	Selenium	7782-49-2	0.153	J	0.0572	0.394	2
06142	Silver	7440-22-4	0.105		0.0140	0.0986	2
06145	Thallium	7440-28-0	0.294		0.0296	0.0986	2
06148	Vanadium	7440-62-2	41.2		0.0217	0.0986	2
06149	Zinc	7440-66-6	481		2.76	14.8	10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.480		0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.81	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.2		0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.94		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.5		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-298-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA6-SS-0.0-0.5

LLI Sample # SW 6340801
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 08:32

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00298 SDG#: DE197-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11199SLB026	07/24/2011 19:46	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11199SLF026	07/20/2011 00:02	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11199SLF026	07/19/2011 07:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11199SLB026	07/18/2011 18:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111950013A	07/16/2011 01:26	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111970013A	08/09/2011 21:49	Melissa McDermott	20
01363	12a Pesticides by 8081A	SW-846 8081A	1	111970013A	08/11/2011 12:07	Melissa McDermott	50
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112000012A	07/22/2011 14:39	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111970013A	07/18/2011 10:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112000012A	07/19/2011 15:15	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111950013A	07/14/2011 20:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111930030A	07/14/2011 03:17	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111940001A	07/13/2011 16:07	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111990011A	07/21/2011 09:33	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111970011A	07/20/2011 18:35	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	111970011A	07/18/2011 10:20	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	111990011A	07/18/2011 18:15	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111930030A	07/13/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111940001A	07/13/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111945708004	07/22/2011 06:15	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111945708004	07/22/2011 06:15	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111945708004	07/22/2011 06:15	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111945708004	07/22/2011 06:15	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111945708004	07/22/2011 06:15	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111945708004	07/22/2011 06:15	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111945708004	07/22/2011 06:15	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111945708004	07/22/2011 06:15	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111945708004	07/22/2011 06:15	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111945708004	07/22/2011 06:15	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111945708004	07/22/2011 06:15	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111945708004	07/22/2011 06:15	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112045708001	07/25/2011 05:12	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111945708004	07/22/2011 06:15	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111941026002A	07/14/2011 22:39	David K Beck	2
06125	Arsenic	SW-846 6020	1	111941026002A	07/14/2011 22:39	David K Beck	2
06126	Barium	SW-846 6020	1	111941026002D	07/14/2011 22:39	David K Beck	2
06127	Beryllium	SW-846 6020	1	111941026002A	07/14/2011 22:39	David K Beck	2
06128	Cadmium	SW-846 6020	1	111941026002A	07/14/2011 22:39	David K Beck	2
06131	Chromium	SW-846 6020	1	111941026002A	07/14/2011 22:39	David K Beck	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-298-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA6-SS-0.0-0.5

LLI Sample # SW 6340801
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 08:32

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00298 SDG#: DE197-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	111941026002A	07/14/2011 22:39	David K Beck	2
06133	Copper	SW-846 6020	1	111941026002A	07/14/2011 22:39	David K Beck	2
06135	Lead	SW-846 6020	1	111941026002A	07/14/2011 22:39	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111941026002C	07/14/2011 22:39	David K Beck	2
06139	Nickel	SW-846 6020	1	111941026002A	07/14/2011 22:39	David K Beck	2
06141	Selenium	SW-846 6020	1	111941026002B	07/14/2011 22:39	David K Beck	2
06142	Silver	SW-846 6020	1	111941026002A	07/14/2011 22:39	David K Beck	2
06145	Thallium	SW-846 6020	1	111941026002A	07/14/2011 22:39	David K Beck	2
06148	Vanadium	SW-846 6020	1	111941026002A	07/14/2011 22:39	David K Beck	2
06149	Zinc	SW-846 6020	1	111941026002A	07/22/2011 15:32	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	111945711007	07/14/2011 18:46	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111945708004	07/14/2011 09:49	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112045708001	07/24/2011 10:49	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111941026002	07/14/2011 10:04	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111945711007	07/14/2011 11:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11201284201A	07/25/2011 08:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11196284202B	07/21/2011 02:31	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11209243202A	07/30/2011 14:35	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11201284201A	07/20/2011 15:15	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11196284202B	07/15/2011 18:45	Alex M Rittle	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039402B	07/21/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11202243201A	07/21/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP01-SA6-QC-071111 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA6-QC-071111

LLI Sample # SW 6340802
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:50

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DP-01 SDG#: DE197-12FD*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	89	J	17	170	1
04688	Acenaphthylene	208-96-8	28	J	17	170	1
04688	Aniline	62-53-3	170	U	170	500	1
04688	Anthracene	120-12-7	210		17	170	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(a)anthracene	56-55-3	930		17	170	1
04688	Benzo(a)pyrene	50-32-8	2,300		17	170	1
04688	Benzo(b)fluoranthene	205-99-2	2,900		17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	2,100		17	170	1
04688	Benzo(k)fluoranthene	207-08-9	960		17	170	1
04688	Benzoic acid	65-85-0	170	U	170	500	1
04688	Benzyl alcohol	100-51-6	170	U	170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170	1
04688	Carbazole	86-74-8	150	J	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Chrysene	218-01-9	1,200		17	170	1
04688	Dibenz(a,h)anthracene	53-70-3	490		17	170	1
04688	Dibenzofuran	132-64-9	21	J	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Fluoranthene	206-44-0	1,700		17	170	1
04688	Fluorene	86-73-7	44	J	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800		17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP01-SA6-QC-071111 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA6-QC-071111

LLI Sample # SW 6340802
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:50

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DP-01 SDG#: DE197-12FD*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	500	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	140	J	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	17	U	17	170	1
04688	Pentachlorophenol	87-86-5	170	U	170	500	1
04688	Phenanthrene	85-01-8	840		17	170	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Pyrene	129-00-0	1,500		17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Di-n-butylphthalate	84-74-2	200		60	180	10
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	150	J	60	180	10
10138	1-Methylnaphthalene	90-12-0	6.7	U	6.7	17	10
10138	2-Methylnaphthalene	91-57-6	6.7	U	6.7	17	10
10138	Naphthalene	91-20-3	50		6.7	17	10
10138	N-Nitrosodimethylamine	62-75-9	6.7	U	6.7	17	10
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(a)pyrene						
	Reporting limits were raised due to interference from the sample matrix.						
	Di-n-butylphthalate was detected in the method blank at a concentration of 7.6 ug/kg. The blank value was not subtracted from the analytical result.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	3.0	U	3.0	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	21	U	21	21	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	430	U	430	430	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP01-SA6-QC-071111 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA6-QC-071111

LLI Sample # SW 6340802
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:50

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DP-01 SDG#: DE197-12FD*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	MCPP (Mecoprop)	93-65-2	440	U	440	440	1
10401	2,4,5-T	93-76-5	0.53	U	0.53	0.53	1
10401	2,4,5-TP	93-72-1	0.40		0.076	0.17	1

The LCS recovery for dinoseb is outside the QC limits of 10-36% at 7%. Since dinoseb does not recover well with this method and the recovery is within our in-house statistical limits of 0-32%, the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	6.7	U	6.7	17	100
01363	Alpha BHC	319-84-6	3.4	U	3.4	17	100
01363	Beta BHC	319-85-7	6.0	U	6.0	17	100
01363	Gamma BHC - Lindane	58-89-9	3.4	U	3.4	17	100
01363	Chlordane	57-74-9	81	U	81	340	100
01363	p,p-DDD	72-54-8	6.7	U	6.7	34	100
01363	p,p-DDE	72-55-9	41		6.7	34	100
01363	p,p-DDT	50-29-3	160		6.7	34	100
01363	Delta BHC	319-86-8	3.6	U	3.6	17	100
01363	Dieldrin	60-57-1	8.8	U	8.8	34	100
01363	Endosulfan I	959-98-8	4.4	U	4.4	17	100
01363	Endosulfan II	33213-65-9	36		6.7	34	100
01363	Endosulfan Sulfate	1031-07-8	6.7	U	6.7	34	100
01363	Endrin	72-20-8	13	U	13	34	100
01363	Endrin Aldehyde	7421-93-4	12	J	6.7	34	100
01363	Endrin Ketone	53494-70-5	6.7	U	6.7	34	100
01363	Heptachlor	76-44-8	6.0	U	6.0	17	100
01363	Heptachlor Epoxide	1024-57-3	13	U	13	17	100
01363	Methoxychlor	72-43-5	34	U	34	170	100
01363	Mirex	2385-85-5	11	U	11	34	100
01363	Toxaphene	8001-35-2	220	U	220	670	100

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	0.70	J	0.33	1.7	1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP01-SA6-QC-071111 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA6-QC-071111

LLI Sample # SW 6340802
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:50

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DP-01 SDG#: DE197-12FD*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500	1
10501	Isopropanol	67-63-0	100	U	100	500	1
10501	Methanol	67-56-1	160	J	100	500	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10	1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10	1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	40	U	40	120	10
10199	EFH (C15-C20)	n.a.	44	J	40	120	10
10199	EFH (C21-C30)	n.a.	500		40	120	10
10199	EFH (C30 - C40)	n.a.	870		40	120	10
10199	EFH (C8-C11)	n.a.	40	U	40	120	10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,320		5.98	19.8	1
07914	Boron	7440-42-8	4.95	J	1.78	24.7	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	4,740		2.47	19.8	1
01654	Iron	7439-89-6	24,900		2.58	19.8	1
01656	Lithium	7439-93-2	14.6		0.61	2.0	1
01657	Magnesium	7439-95-4	3,660		0.435	9.88	1
06958	Manganese	7439-96-5	267		0.0356	0.494	1
10145	Phosphorus	7723-14-0	521		0.346	9.88	1
01662	Potassium	7440-09-7	2,080		11.2	49.4	1
01667	Sodium	7440-23-5	158		5.88	98.8	1
07968	Strontium	7440-24-6	26.0		0.0247	0.494	1
06969	Tin	7440-31-5	4.67	J	0.316	9.88	1
06970	Titanium	7440-32-6	702		0.0695	0.979	1
10146	Zirconium	7440-67-7	4.22	J	0.455	4.94	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.35		0.0717	0.194	2

Sample Description: DUP01-SA6-QC-071111 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA6-QC-071111

LLI Sample # SW 6340802
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:50

Submitted: 07/12/2011 09:35
Reported: 08/17/2011 13:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DP-01 SDG#: DE197-12FD*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.82		0.0775	0.388	2
06126	Barium	7440-39-3	69.9		0.103	0.388	2
06127	Beryllium	7440-41-7	0.320		0.0155	0.0969	2
06128	Cadmium	7440-43-9	1.85		0.0426	0.0969	2
06131	Chromium	7440-47-3	28.0		0.116	0.388	2
06132	Cobalt	7440-48-4	8.65		0.0194	0.0969	2
06133	Copper	7440-50-8	62.2		0.0775	0.388	2
06135	Lead	7439-92-1	84.8		0.0099	0.194	2
06138	Molybdenum	7439-98-7	7.74		0.0485	0.0969	2
06139	Nickel	7440-02-0	14.3		0.0969	0.388	2
06141	Selenium	7782-49-2	0.376	J	0.0562	0.388	2
06142	Silver	7440-22-4	0.129		0.0138	0.0969	2
06145	Thallium	7440-28-0	0.150		0.0291	0.0969	2
06148	Vanadium	7440-62-2	28.7		0.0213	0.0969	2
06149	Zinc	7440-66-6	611		2.71	14.5	10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.332		0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.81	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	2.9		0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.75		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.80		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: DUP01-SA6-QC-071111 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA6-QC-071111

LLI Sample # SW 6340802
LLI Group # 1255672
Account # 13013

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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DP-01 SDG#: DE197-12FD*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11199SLB026	07/24/2011 20:12	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11199SLF026	07/20/2011 00:34	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11199SLF026	07/19/2011 07:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11199SLB026	07/18/2011 18:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111950013A	07/16/2011 01:53	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111970013A	07/29/2011 09:37	Melissa McDermott	100
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112000012A	07/21/2011 02:54	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111970013A	07/18/2011 10:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112000012A	07/19/2011 15:15	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111950013A	07/14/2011 20:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111930030A	07/14/2011 03:32	Tracy A Cole	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111940001A	07/13/2011 16:20	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111990011A	07/21/2011 10:17	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111970011A	07/19/2011 22:00	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	111970011A	07/18/2011 10:20	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	111990011A	07/18/2011 18:15	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111930030A	07/13/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111940001A	07/13/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111945708004	07/22/2011 06:19	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111945708004	07/22/2011 20:03	John P Hook	5
01650	Calcium	SW-846 6010B	1	111945708004	07/22/2011 06:19	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111945708004	07/22/2011 06:19	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111945708004	07/22/2011 06:19	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111945708004	07/22/2011 06:19	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111945708004	07/22/2011 06:19	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111945708004	07/22/2011 06:19	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111945708004	07/22/2011 06:19	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111945708004	07/22/2011 06:19	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111945708004	07/22/2011 06:19	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111945708004	07/22/2011 06:19	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112045708001	07/25/2011 05:15	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111945708004	07/22/2011 06:19	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111941026002A	07/14/2011 22:42	David K Beck	2
06125	Arsenic	SW-846 6020	1	111941026002A	07/14/2011 22:42	David K Beck	2
06126	Barium	SW-846 6020	1	111941026002D	07/14/2011 22:42	David K Beck	2
06127	Beryllium	SW-846 6020	1	111941026002A	07/14/2011 22:42	David K Beck	2
06128	Cadmium	SW-846 6020	1	111941026002A	07/14/2011 22:42	David K Beck	2
06131	Chromium	SW-846 6020	1	111941026002A	07/14/2011 22:42	David K Beck	2
06132	Cobalt	SW-846 6020	1	111941026002A	07/14/2011 22:42	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP01-SA6-QC-071111 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA6-QC-071111

LLI Sample # SW 6340802
LLI Group # 1255672
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:50

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14420 Albemarle Point Place
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DP-01 SDG#: DE197-12FD*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111941026002A	07/14/2011 22:42	David K Beck	2
06135	Lead	SW-846 6020	1	111941026002A	07/14/2011 22:42	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111941026002C	07/14/2011 22:42	David K Beck	2
06139	Nickel	SW-846 6020	1	111941026002A	07/14/2011 22:42	David K Beck	2
06141	Selenium	SW-846 6020	1	111941026002B	07/14/2011 22:42	David K Beck	2
06142	Silver	SW-846 6020	1	111941026002A	07/14/2011 22:42	David K Beck	2
06145	Thallium	SW-846 6020	1	111941026002A	07/14/2011 22:42	David K Beck	2
06148	Vanadium	SW-846 6020	1	111941026002A	07/14/2011 22:42	David K Beck	2
06149	Zinc	SW-846 6020	1	111941026002A	07/22/2011 15:34	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	111945711007	07/14/2011 18:47	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111945708004	07/14/2011 09:49	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112045708001	07/24/2011 10:49	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111941026002	07/14/2011 10:04	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111945711007	07/14/2011 11:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11201284201B	07/25/2011 08:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11196284202B	07/21/2011 00:59	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11209243202A	07/30/2011 14:48	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11201284201B	07/20/2011 15:15	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11196284202B	07/15/2011 18:45	Alex M Rittle	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039403A	07/21/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11202243201A	07/21/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255672
Reported: 08/17/11 at 01:23 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111951AA	Sample number(s): 6340788-6340789,6340791-6340792									
Acetone	9.3		6.7	8.0	ug/kg	116	125	32-209	7	30
Benzene	0.10	U	0.10	4.0	ug/kg	109	105	80-120	3	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	102	101	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	114	109	79-124	5	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	107	107	78-120	0	30
Bromoform	0.40	U	0.40	4.0	ug/kg	108	110	70-120	1	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	84	83	32-162	0	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	101	106	46-153	5	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	103	104	72-120	1	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	101	102	75-120	0	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	100	97	75-120	3	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	118	114	69-122	3	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	107	106	80-120	1	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	75	75	37-154	1	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	86	83	43-146	3	30
Chloroform	0.14	J	0.12	4.0	ug/kg	114	111	80-120	3	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	91	92	54-132	1	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102	102	78-120	0	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	107	105	79-120	2	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	73	72	22-131	1	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	110	114	58-120	4	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	109	108	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	106	109	80-120	3	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	103	104	80-120	1	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	105	106	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	102	103	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	103	104	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	88	85	20-120	3	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	109	106	80-120	3	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	119	118	71-129	0	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	118	113	73-123	5	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	105	103	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	110	106	79-120	4	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	99	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	105	106	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	116	114	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	106	102	77-120	4	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	96	97	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	98	101	77-120	3	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	108	104	80-120	4	30
Freon 113	0.11	U	0.11	4.0	ug/kg	118	113	61-126	5	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	105	103	78-120	2	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	89	97	57-120	9	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	102	107	45-155	5	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	109	106	76-120	3	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255672
Reported: 08/17/11 at 01:23 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	101	102	75-120	1	30
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	106	109	74-121	3	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	102	105	61-134	3	30
Methylene Chloride	2.1	J	0.24	4.0	ug/kg	129*	127*	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	107	105	77-120	2	30
Styrene	0.10	U	0.10	4.0	ug/kg	109	107	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	111	111	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	101	103	71-123	2	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	108	109	77-120	0	30
Toluene	0.11	J	0.08	4.0	ug/kg	109	106	80-120	3	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	95	100	64-120	5	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	87	90	68-120	4	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	117	112	71-125	4	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	106	108	80-120	2	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	104	102	80-120	2	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	106	104	58-133	2	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	106	110	71-123	3	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	104	103	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	107	105	78-120	2	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	88	88	53-120	0	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	111	108	80-120	3	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	105	103	80-120	2	30
Batch number: E111951AA	Sample number(s): 6340794									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	110	106	80-123	3	30
Batch number: E111961AA	Sample number(s): 6340788-6340789,6340791-6340792									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	92	104	70-130	12	30
Batch number: Y111961AA	Sample number(s): 6340794									
Acetone	6	U	6.	20	ug/l	71	67	49-234	6	30
Benzene	0.5	U	0.5	5	ug/l	100	100	79-120	0	30
Bromobenzene	1	U	1.	5	ug/l	110	109	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	109	107	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	102	101	80-120	1	30
Bromoform	1	U	1.	5	ug/l	101	99	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	78	79	44-120	0	30
2-Butanone	3	U	3.	10	ug/l	85	85	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	96	95	74-120	2	30
sec-Butylbenzene	1	U	1.	5	ug/l	97	96	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	101	101	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	100	99	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	103	103	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	82	82	49-129	0	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	104	108	56-129	3	30
Chloroform	0.8	U	0.8	5	ug/l	102	102	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	77	78	60-129	2	30
2-Chlorotoluene	1	U	1.	5	ug/l	107	106	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	105	104	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	91	89	38-136	2	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	95	93	56-126	2	30
Dibromochloromethane	1	U	1.	5	ug/l	101	100	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	98	98	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	98	99	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	102	102	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	111	110	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	107	106	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	64	64	47-120	1	30

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255672
Reported: 08/17/11 at 01:23 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1-Dichloroethane	1	U	1.	5	ug/l	104	105	79-120	0	30
1,2-Dichloroethane	1	U	1.	5	ug/l	112	110	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	85	86	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	102	101	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	100	101	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	99	99	78-120	0	30
1,3-Dichloropropane	1	U	1.	5	ug/l	98	97	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	97	98	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	104	103	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	101	103	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	92	92	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	96	79-120	1	30
Freon 113	2	U	2.	10	ug/l	78	77	69-128	1	30
Freon 133a	2	U	2.	5	ug/l	80	80	77-120	0	30
Hexachlorobutadiene	2	U	2.	5	ug/l	95	96	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	83	83	65-136	0	30
Isopropylbenzene	1	U	1.	5	ug/l	102	101	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	102	102	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	97	98	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	89	87	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	98	97	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	94	94	80-120	0	30
Styrene	1	U	1.	5	ug/l	98	96	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	104	103	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	89	89	71-120	0	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	106	106	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	95	96	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	107	107	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	102	101	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	89	89	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	95	95	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	101	103	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	73	73	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	97	99	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	102	102	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	101	101	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	78	81	65-125	4	30
m+p-Xylene	0.8	U	0.8	5	ug/l	99	98	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	95	95	80-120	0	30

Batch number: 11199SLB026	Sample number(s): 6340788-6340793,6340795-6340798,6340800-6340802							
Acenaphthene	17	U	17.	170	ug/kg	90		76-111
Acenaphthylene	17	U	17.	170	ug/kg	96		75-122
Aniline	170 U		170.	500	ug/kg	86		34-94
Anthracene	17	U	17.	170	ug/kg	102		76-112
Benzidine	1,200 U		1,200.	3,300	ug/kg	66		15-121
Benzo(a)anthracene	17	U	17.	170	ug/kg	99		73-112
Benzo(a)pyrene	17	U	17.	170	ug/kg	105		69-122
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	108		61-127
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	100		65-122
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	103		67-125
Benzoic acid	170 U		170.	500	ug/kg	84		62-113
Benzyl alcohol	170 U		170.	500	ug/kg	100		68-111
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	96		79-117

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255672
Reported: 08/17/11 at 01:23 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Butylbenzylphthalate	17	U	17.	170	ug/kg	102		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	102		79-112		
Carbazole	17	U	17.	170	ug/kg	98		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	100		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	61		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	92		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	70		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	69		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	98		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	91		79-110		
Chrysene	17	U	17.	170	ug/kg	98		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	103		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	88		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	89		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	73		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	100		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	97		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	96		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	101		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	96		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	85		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	71		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	102		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	98		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	95		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	102		75-117		
Fluoranthene	17	U	17.	170	ug/kg	102		78-116		
Fluorene	17	U	17.	170	ug/kg	92		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	99		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	89		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	75		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	85		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	102		64-119		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	90		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	92		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	97		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	100		66-117		
Naphthalene	17	U	17.	170	ug/kg	90		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	96		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	97		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	78		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	95		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	93		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	96		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	91		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	87		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	96		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	111		68-130		
Pentachlorophenol	170		170.	500	ug/kg	94		51-117		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255672
Reported: 08/17/11 at 01:23 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	U									
Phenanthrene	17	U	17.	170	ug/kg	99		77-113		
Phenol	17	U	17.	170	ug/kg	100		58-112		
Pyrene	17	U	17.	170	ug/kg	102		75-115		
Tetralin	170		170.	170	ug/kg	3*		70-130		
	U									
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	91		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	96		78-111		
Batch number: 11199SLF026	Sample number(s): 6340788-6340793,6340795-6340798,6340800-6340802									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	96		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	100		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	105		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	107		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	130*		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	142		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	133		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	128		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	106		65-131		
Di-n-butylphthalate	7.6	J	6.0	18	ug/kg	112		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	100		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	133		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	112		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	113		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	112		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	109		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	105		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	133		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	90		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	93		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	115		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	137		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	101		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	104		56-121		
Batch number: 11195A34A	Sample number(s): 6340791-6340793									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	77	80	67-119	4	30
Batch number: 11195C20A	Sample number(s): 6340794									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 111950013A	Sample number(s): 6340795-6340798,6340800-6340802									
2,4-D	1.2	U	1.2	3.6	ug/kg	94		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	57		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	87		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	100		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	7*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	119		62-170		
MCPA	76	U	76.	250	ug/kg	82		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	100		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	87		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	84		68-114		
Batch number: 111970013A	Sample number(s): 6340795-6340798,6340800-6340802									
Aldrin	0.066	U	0.066	0.17	ug/kg	73		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	59		38-130		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255672
Reported: 08/17/11 at 01:23 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Beta BHC	0.060	U	0.060	0.17	ug/kg	75		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	65		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	87		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	95		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	96		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	78		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	85		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	85		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	100		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	108		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	85		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	89		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	109		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	65		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	94		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	106		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112000012A	Sample number(s): 6340788-6340793,6340795-6340798,6340800-6340802									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	86	90	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	93		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	107		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111930030A	Sample number(s): 6340791-6340793,6340795-6340798,6340800-6340802									
Ethanol	100 U		100.	500	ug/kg	88		71-129		
Isopropanol	100 U		100.	500	ug/kg	84		75-125		
Methanol	100 U		100.	500	ug/kg	114		68-129		
Batch number: 111940001A	Sample number(s): 6340791-6340793,6340795-6340798,6340800-6340802									
Diethylene glycol	5.0	U	5.0	10	mg/kg	113		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	112		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	107		75-125		
Batch number: 111970011A	Sample number(s): 6340791-6340793,6340795-6340798,6340800-6340802									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	86		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	88		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	90		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	89		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	65		54-107		
Batch number: 111990011A	Sample number(s): 6340791-6340793,6340795-6340798,6340800-6340802									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	78		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	92		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	88		75-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255672
Reported: 08/17/11 at 01:23 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111941026002A	Sample number(s): 6340788-6340793,6340795-6340802								
Antimony	0.0733 U	0.0733	0.198	mg/kg	64		10-224		
Arsenic	0.0792 U	0.0792	0.396	mg/kg	105		78-122		
Beryllium	0.0158 U	0.0158	0.0990	mg/kg	101		80-120		
Cadmium	0.0436 U	0.0436	0.0990	mg/kg	104		81-119		
Chromium	0.119 U	0.119	0.396	mg/kg	115		77-123		
Cobalt	0.0198 U	0.0198	0.0990	mg/kg	106		80-119		
Copper	0.0826 J	0.0792	0.396	mg/kg	110		78-122		
Lead	0.0101 U	0.0101	0.198	mg/kg	99		77-123		
Nickel	0.0990 U	0.0990	0.396	mg/kg	109		80-120		
Silver	0.0141 U	0.0141	0.0990	mg/kg	108		66-134		
Thallium	0.0297 U	0.0297	0.0990	mg/kg	100		75-124		
Vanadium	0.0404 J	0.0218	0.0990	mg/kg	117		76-124		
Zinc	0.554 U	0.554	2.97	mg/kg	110		79-121		
Batch number: 111941026002B	Sample number(s): 6340788-6340793,6340795-6340802								
Selenium	0.0574 U	0.0574	0.396	mg/kg	103		77-123		
Batch number: 111941026002C	Sample number(s): 6340788-6340793,6340795-6340802								
Molybdenum	0.0495 U	0.0495	0.0990	mg/kg	108		76-123		
Batch number: 111941026002D	Sample number(s): 6340788-6340793,6340795-6340802								
Barium	0.105 U	0.105	0.396	mg/kg	103		80-120		
Batch number: 111945708004	Sample number(s): 6340788-6340793,6340795-6340802								
Aluminum	6.05 U	6.05	20.0	mg/kg	146		42-158		
Boron	0.360 U	0.360	5.00	mg/kg	99		66-134		
Calcium	3.10 J	2.50	20.0	mg/kg	107		79-121		
Iron	4.74 J	2.61	20.0	mg/kg	124		51-149		
Lithium	0.67 J	0.62	2.0	mg/kg	99		80-120		
Magnesium	1.14 J	0.440	10.0	mg/kg	127		64-136		
Manganese	0.0430 J	0.0360	0.500	mg/kg	96		78-122		
Phosphorus	1.40 J	0.350	10.0	mg/kg	101		80-120		
Potassium	11.3 U	11.3	50.0	mg/kg	119		69-131		
Sodium	5.95 U	5.95	100	mg/kg	115		71-129		
Strontium	0.0270 J	0.0250	0.500	mg/kg	103		81-119		
Tin	1.72 J	0.320	10.0	mg/kg	100		74-126		
Zirconium	0.460 U	0.460	5.00	mg/kg	100		80-120		
Batch number: 111945711007	Sample number(s): 6340788-6340793,6340795-6340802								
Mercury	0.0070 U	0.0070	0.0996	mg/kg	102		72-128		
Batch number: 112045708001	Sample number(s): 6340788-6340793,6340795-6340802								
Titanium	0.0689 U	0.0689	0.971	mg/kg	133		40-186		
Batch number: 11196284202A	Sample number(s): 6340788-6340793,6340795-6340800								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	108		85-115		
Batch number: 11196284202B	Sample number(s): 6340801-6340802								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	108		85-115		
Batch number: 11201284201A	Sample number(s): 6340788-6340793,6340795-6340797,6340799-6340801								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	109		90-110		
Batch number: 11201284201B	Sample number(s): 6340802								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	109		90-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255672
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11209243202A	Sample number(s): 6340788-6340793,6340795-6340797,6340799-6340802									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	92		80-120		
Batch number: 11202039402B	Sample number(s): 6340788-6340793,6340795-6340796,6340799-6340801									
18a pH by 9045C						100		95-105		
Batch number: 11202039403A	Sample number(s): 6340802									
18a pH by 9045C						100		95-105		
Batch number: 11201162401B	Sample number(s): 6340788-6340793,6340795-6340802									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: E111961AA	Sample number(s): 6340788-6340789,6340791-6340792 UNSPK: P345448								
1,4-Dioxane	80	86	70-130	14	30				
Batch number: 11199SLB026	Sample number(s): 6340788-6340793,6340795-6340798,6340800-6340802 UNSPK: 6340796								
Acenaphthene	85	93	75-115	9	30				
Acenaphthylene	89	89	81-110	0	30				
Aniline	33*	21*	35-95	44*	30				
Anthracene	91	102	75-115	11	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	89	96	65-122	7	30				
Benzo(a)pyrene	87	101	57-126	12	30				
Benzo(b)fluoranthene	88	106	59-125	15	30				
Benzo(g,h,i)perylene	115	183*	59-127	41*	30				
Benzo(k)fluoranthene	76	78	56-132	2	30				
Benzoic acid	16	26	10-173	50*	30				
Benzyl alcohol	86	70	67-115	21	30				
4-Bromophenyl-phenylether	98	104	67-129	7	30				
Butylbenzylphthalate	101	86	73-134	15	30				
Di-n-butylphthalate	91	80	67-123	12	30				
Carbazole	89	83	64-120	6	30				
4-Chloro-3-methylphenol	83	80	76-110	4	30				
4-Chloroaniline	30	35	23-95	16	30				
bis(2-Chloroethoxy)methane	87	73*	75-104	17	30				
bis(2-Chloroethyl)ether	87	75	60-116	15	30				
bis(2-Chloroisopropyl)ether	64	53*	55-142	18	30				
2-Chloronaphthalene	74	76	50-141	2	30				
2-Chlorophenol	84	72*	73-121	16	30				
4-Chlorophenyl-phenylether	82	80	80-109	3	30				
Chrysene	80	93	62-128	13	30				
Dibenz(a,h)anthracene	103	126*	65-125	19	30				
Dibenzofuran	82	82	71-112	0	30				
1,2-Dichlorobenzene	82	84	66-108	3	30				
1,3-Dichlorobenzene	81	86	63-109	6	30				

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,4-Dichlorobenzene	81	83	70-100	3	30				
3,3'-Dichlorobenzidine	11*	0*	16-119	200*	30				
2,4-Dichlorophenol	85	87	78-117	1	30				
Diethylphthalate	89	71	66-118	23	30				
2,4-Dimethylphenol	87	80	78-110	9	30				
3,5-Dimethylphenol	89	79	70-130	12	30				
Dimethylphthalate	92	68	64-118	29	30				
4,6-Dinitro-2-methylphenol	16*	11*	24-116	35*	30				
2,4-Dinitrophenol	11*	0*	20-143	200*	30				
2,4-Dinitrotoluene	80	44*	73-113	59*	30				
2,6-Dinitrotoluene	85	48*	69-123	56*	30				
1,2-Diphenylhydrazine	96	96	71-129	0	30				
bis(2-Ethylhexyl)phthalate	94	112	63-122	16	30				
Fluoranthene	78	84	73-112	6	30				
Fluorene	82	86	77-111	5	30				
Hexachlorobenzene	88	137*	77-114	44*	30				
Hexachlorobutadiene	89	105	62-120	16	30				
Hexachlorocyclopentadiene	19	9*	10-153	72*	30				
Hexachloroethane	64	56*	57-109	13	30				
Indeno(1,2,3-cd)pyrene	105	146*	61-126	29	30				
Isophorone	86	82	73-102	5	30				
1-Methylnaphthalene	79	89	73-112	12	30				
2-Methylnaphthalene	81	90	76-114	11	30				
2-Methylphenol	82	71*	75-111	14	30				
4-Methylphenol	78	67*	71-111	16	30				
Naphthalene	85	94	72-116	11	30				
2-Nitroaniline	97	83	67-125	16	30				
3-Nitroaniline	74	45*	59-122	50*	30				
4-Nitroaniline	69	48*	52-112	36*	30				
Nitrobenzene	89	82	72-106	8	30				
2-Nitrophenol	82	53*	74-115	43*	30				
4-Nitrophenol	79	69	54-113	12	30				
N-Nitroso-di-n-propylamine	78	64	60-116	19	30				
N-Nitrosodimethylamine	84	64	47-116	27	30				
N-Nitrosodiphenylamine	99	99	86-145	0	30				
Di-n-octylphthalate	110	109	56-126	1	30				
Pentachlorophenol	48	102	28-127	71*	30				
Phenanthrene	87	93	65-125	6	30				
Phenol	81	67	58-126	20	30				
Pyrene	74	77	74-126	3	30				
Tetralin	0*	28*	70-130	200*	30				
1,2,4-Trichlorobenzene	86	104	72-115	19	30				
2,4,5-Trichlorophenol	80	98	78-109	20	30				
2,4,6-Trichlorophenol	90	88	77-115	2	30				
Batch number: 11199SLF026	Sample number(s): 6340788-6340793,6340795-6340798,6340800-6340802 UNSPK: 6340796								
Acenaphthene	77	70	63-105	6	30				
Acenaphthylene	89	77	67-114	11	30				
Anthracene	44*	49*	60-122	3	30				
Benzo(a)anthracene	-325 (2)	-98 (2)	59-128	23	30				
Benzo(a)pyrene	-354 (2)	-165 (2)	45-138	14	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255672
Reported: 08/17/11 at 01:23 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(b)fluoranthene	-425 (2)	-261 (2)	43-155	8	30				
Benzo(g,h,i)perylene	-347 (2)	-413 (2)	33-141	5	30				
Benzo(k)fluoranthene	-211 (2)	-26 (2)	42-144	23	30				
Butylbenzylphthalate	250*	237*	57-173	5	30				
Di-n-butylphthalate	178 (2)	32 (2)	65-148	25	30				
Chrysene	-429 (2)	-340 (2)	48-134	8	30				
Dibenz(a,h)anthracene	5*	14*	22-133	3	30				
Diethylphthalate	0*	0*	70-136	0	30				
Dimethylphthalate	0*	0*	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	485 (2)	152 (2)	39-167	45*	30				
Fluoranthene	-1195 (2)	-781 (2)	26-166	18	30				
Fluorene	90	80	66-122	8	30				
Indeno(1,2,3-cd)pyrene	-269 (2)	-255 (2)	21-143	1	30				
1-Methylnaphthalene	91	78	72-123	15	30				
2-Methylnaphthalene	91	81	64-103	11	30				
Naphthalene	103*	87	61-102	17	30				
N-Nitrosodimethylamine	99	89	48-113	10	30				
Di-n-octylphthalate	290*	274*	40-192	5	30				
Phenanthrene	-351 (2)	-281 (2)	12-165	11	30				
Pyrene	-739 (2)	-519 (2)	15-153	15	30				
Batch number: 111950013A	Sample number(s): 6340795-6340798,6340800-6340802 UNSPK: 6340796								
2,4-D	102	97	17-180	6	35				
Dalapon	36	45	10-125	21	50				
2,4-DB	258*	301*	10-201	15	50				
Dicamba	0*	100	10-190	200*	50				
Dinoseb	0*	0*	10-46	0	35				
2,4-DP (Dichlorprop)	76	70	33-178	9	50				
MCPA	161	122	10-213	27	50				
MCPP (Mecoprop)	73	77	10-184	7	50				
2,4,5-T	1*	16	10-156	18	35				
2,4,5-TP	49	75	24-141	118*	35				
Batch number: 111970013A	Sample number(s): 6340795-6340798,6340800-6340802 UNSPK: 6340796								
Aldrin	0*	0*	16-126	0	50				
Alpha BHC	0*	0*	10-129	0	50				
Beta BHC	0*	0*	14-147	0	50				
Gamma BHC - Lindane	612*	559*	10-140	9	50				
p,p-DDD	0*	0*	16-163	0	50				
p,p-DDE	0*	0*	18-161	0	50				
p,p-DDT	-4084 (2)	1830 (2)	10-176	22	50				
Delta BHC	0*	0*	23-140	0	50				
Dieldrin	3356 (2)	1843 (2)	19-154	13	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255672
Reported: 08/17/11 at 01:23 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Endosulfan I	0*	0*	16-137	0	50				
Endosulfan II	2611*	0*	28-154	200*	50				
Endosulfan Sulfate	0*	0*	21-160	0	50				
Endrin	4558*	0*	11-149	200*	50				
Endrin Aldehyde	2742*	2492*	10-148	10	35				
Endrin Ketone	0*	0*	22-165	0	50				
Heptachlor	0*	0*	13-126	0	50				
Heptachlor Epoxide	6197*	0*	13-157	200*	50				
Methoxychlor	0*	0*	32-147	0	50				
Batch number: 112000012A	Sample number(s): 6340788-6340793,6340795-6340798,6340800-6340802 UNSPK: 6340796								
PCB-1016	0*	0*	29-146	0	50				
PCB-1260	0*	0*	39-149	0	50				
Batch number: 111930030A	Sample number(s): 6340791-6340793,6340795-6340798,6340800-6340802 UNSPK: 6340796								
Ethanol	109	97	48-130	11	20				
Isopropanol	101	91	12-149	10	20				
Methanol	126	120	43-138	5	20				
Batch number: 111940001A	Sample number(s): 6340791-6340793,6340795-6340798,6340800-6340802 UNSPK: 6340796								
Diethylene glycol	9*	22*	59-109	84*	20				
Ethylene glycol	29*	47*	63-107	47*	20				
Propylene glycol	44*	66	63-107	39*	20				
Batch number: 111970011A	Sample number(s): 6340791-6340793,6340795-6340798,6340800-6340802 UNSPK: 6340796								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	0 (2)	762 (2)	49-123	200*	20				
EFH (C21-C30)	2200 (2)	7665 (2)	49-123	21*	20				
EFH (C30 - C40)	2747 (2)	9486 (2)	49-123	17	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 111990011A	Sample number(s): 6340791-6340793,6340795-6340798,6340800-6340802 UNSPK: 6340796								
m-Terphenyl	76	9*	75-125	157*	20				
o-Terphenyl	69*	11*	75-125	144*	20				
p-Terphenyl	88	46*	75-125	62*	20				
Batch number: 111941026002A	Sample number(s): 6340788-6340793,6340795-6340802 UNSPK: 6340796 BKG: 6340796								
Antimony	64*	35*	75-125	17	20	1.27	2.19	53*	20
Arsenic	-30 (2)	-55 (2)	75-125	7	20	8.17	7.19	13	20
Beryllium	86	95	75-125	8	20	0.415	0.385	8 (1)	20
Cadmium	36*	67*	75-125	11	20	2.37	2.42	2	20
Chromium	175*	114	75-125	11	20	34.1	40.3	16	20
Cobalt	91	96	75-125	7	20	9.74	10.3	6	20
Copper	180 (2)	45 (2)	75-125	21*	20	49.9	62.4	22*	20
Lead	1607 (2)	180 (2)	75-125	40*	20	77.7	143	59*	20
Nickel	73*	181*	75-125	37*	20	17.4	17.9	3	20
Silver	95	99	75-125	7	20	0.195	0.101	63* (1)	20
Thallium	90	84	75-125	3	20	0.192	0.157	20 (1)	20
Vanadium	49*	179*	75-125	28*	20	35.7	35.7	0	20
Zinc	-1864	-661	75-125	17	20	790	698	12	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255672
Reported: 08/17/11 at 01:23 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
	(2)	(2)							
Batch number: 111941026002B	Sample number(s): 6340788-6340793,6340795-6340802 UNSPK: 6340796 BKG: 6340796								
Selenium	100	94	75-125	2	20	0.316 J	0.208 J	41* (1)	20
Batch number: 111941026002C	Sample number(s): 6340788-6340793,6340795-6340802 UNSPK: 6340796 BKG: 6340796								
Molybdenum	226*	106	75-125	52*	20	5.58	22.0	119*	20
Batch number: 111941026002D	Sample number(s): 6340788-6340793,6340795-6340802 UNSPK: 6340796 BKG: 6340796								
Barium	-32 (2)	95 (2)	75-125	16	20	74.5	84.0	12	20
Batch number: 111945708004	Sample number(s): 6340788-6340793,6340795-6340802 UNSPK: 6340796 BKG: 6340796								
Aluminum	155 (2)	866 (2)	75-125	11	20	11,100	10,600	5	20
Boron	88	96	84-115	5	20	0.356 U	0.346 U	0 (1)	20
Calcium	-299 (2)	574 (2)	75-125	47*	20	6,760	8,220	19	20
Iron	17569 (2)	3503 (2)	75-125	37*	20	27,600	22,100	22*	20
Lithium	98	102	82-114	1	20	16.9	16.3	4	20
Magnesium	98 (2)	20 (2)	75-125	3	20	4,380	4,230	4	20
Manganese	91 (2)	291 (2)	75-125	22*	20	333	260	25*	20
Phosphorus	333 (2)	71 (2)	75-125	37*	20	513	518	1	20
Potassium	87	104	75-125	4	20	2,490	2,440	2	20
Sodium	98	108	75-125	6	20	191	152	23* (1)	20
Strontium	89	102	75-115	8	20	30.3	27.0	12	20
Tin	93	96	80-110	1	20	4.75 J	4.05 J	16 (1)	20
Zirconium	94	99	75-125	3	20	4.84 J	4.06 J	18 (1)	20
Batch number: 111945711007	Sample number(s): 6340788-6340793,6340795-6340802 UNSPK: 6340796 BKG: 6340796								
Mercury	101	78	65-135	6	20	0.410	0.269	41* (1)	20
Batch number: 112045708001	Sample number(s): 6340788-6340793,6340795-6340802 UNSPK: 6340796 BKG: 6340796								
Titanium	329 (2)	306 (2)	75-125	2	20	700	659	6	20
Batch number: 11196284202A	Sample number(s): 6340788-6340793,6340795-6340800 UNSPK: 6340796 BKG: 6340796								
7a Perchlorate EPA 314.0	107	103	80-120	3	20	9.0 U	9.0 U	0 (1)	15
Batch number: 11196284202B	Sample number(s): 6340801-6340802 UNSPK: 6340802 BKG: 6340802								
7a Perchlorate EPA 314.0	100		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11201284201A	Sample number(s): 6340788-6340793,6340795-6340797,6340799-6340801 UNSPK: 6340796 BKG: 6340796								
11a Anions by 300.0 - Fluoride	76*		80-120			2.6	1.9	30* (1)	20
Batch number: 11201284201B	Sample number(s): 6340802 UNSPK: 6340802 BKG: 6340802								
11a Anions by 300.0 - Fluoride	84		80-120			1.7	2.4	30* (1)	20
Batch number: 11209243202A	Sample number(s): 6340788-6340793,6340795-6340797,6340799-6340802 UNSPK: 6340796 BKG: 6340796								
3a Cr VI by EPA 7199	76		75-125			4.8	2.8	53* (1)	20
Batch number: 11202039402B	Sample number(s): 6340788-6340793,6340795-6340796,6340799-6340801 BKG: 6340796								
18a pH by 9045C						7.90	7.89	0	3

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255672
Reported: 08/17/11 at 01:23 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11202039403A	Sample number(s): 6340802			BKG: P342209					
18a pH by 9045C						6.80	6.76	1	3
Batch number: 11201162401B	Sample number(s): 6340788-6340793,6340795-6340802					BKG: 6340796			
28a Moisture Content by 160.3						0.85	0.89	5 (1)	20
Moisture Content by 160.3						0.85	0.89	5 (1)	20
Moisture Content by 160.3						0.85	0.89	5 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111951AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6340788	111	110	96	93
6340789	109	103	101	86
6340791	110	106	99	91
6340792	109	103	99	89
Blank	110	105	100	92
LCS	105	102	104	103
LCSD	104	103	103	103
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111951AA

	Toluene-d8
6340794	102
Blank	102
LCS	104
LCSD	102
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111961AA

	Toluene-d8
6340788	97
6340789	98
6340791	97
6340792	97
Blank	98
LCS	98
LCSD	98

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255672
Reported: 08/17/11 at 01:23 PM

Surrogate Quality Control

MS	98
MSD	98
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y111961AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6340794	103	105	93	91
Blank	103	107	93	92
LCS	104	107	94	94
LCSD	104	107	94	94
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11199SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6340788	94	89	78	77	84	83
6340789	89	87	72	69	74	84
6340790	100	95	79	78	91	92
6340791	100	94	85	76	87	92
6340792	101	96	81	77	90	97
6340793	99	96	84	79	91	94
6340795	111	104	83	72	89	96
6340796	98	95	94	91	92	95
6340797	88	86	87	85	85	81
6340798	72	69	97	78	78	80
6340800	90	87	78	75	83	80
6340801	91	90	79	81	87	82
6340802	89	88	82	79	83	78
Blank	101	96	112	92	87	93
LCS	105	98	108	90	84	92
MS	88	86	87	85	85	81
MSD	72	69	97	78	78	80
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11199SLF026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6340788	96	83	87
6340789	102	87	94
6340790	108	97	100
6340791	108	96	98
6340792	115	103	103
6340793	99	89	90
6340795	98	89	89
6340796	108	90	77
6340797	112	93	82
6340798	99	80	68
6340800	97	82	75
6340801	101	90	84
6340802	110	88	82

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255672
Reported: 08/17/11 at 01:23 PM

Surrogate Quality Control

Blank	117	109	117
LCS	107	95	101
MS	112	93	82
MSD	99	80	68
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11195A34A

	Trifluorotoluene-F
6340791	71
6340792	77
6340793	78
Blank	85
LCS	89
LCSD	92
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11195C20A

	Trifluorotoluene-F
6340794	90
Blank	88
LCS	116
LCSD	113
Limits:	63-135

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 111950013A

	2,4-Dichlorophenylacetic acid
6340795	88
6340796	151
6340797	60
6340798	185*
6340800	57
6340801	59
6340802	358*
Blank	85
LCS	90
MS	60
MSD	185*
Limits:	36-156

Analysis Name: 12a Pesticides by 8081A
Batch number: 111970013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6340795	90	176*
6340796	75	1494*
6340797	110	278*

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255672
Reported: 08/17/11 at 01:23 PM

Surrogate Quality Control

6340798	104	0*
6340800	479*	0*
6340801	120	1065*
6340802	68	0*
Blank	52	106
LCS	56	105
MS	110	278*
MSD	104	0*
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112000012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6340788	90	90
6340789	94	92
6340790	101	97
6340791	95	90
6340792	101	94
6340793	101	87
6340795	97	83
6340796	130	302*
6340797	89	246*
6340798	102	208*
6340800	94	103
6340801	88	102
6340802	100	89
Blank	82	81
LCS	96	97
LCSD	99	101
MS	90	0*
MSD	102	0*
Limits:	53-139	45-120

Analysis Name: 19a Alcohols by 8015B
Batch number: 111930030A

	Acetone
6340791	78
6340792	85
6340793	138
6340795	152*
6340796	102
6340797	106
6340798	102
6340800	106
6340801	111
6340802	102
Blank	94
LCS	94
MS	106
MSD	102
Limits:	42-138

Analysis Name: 21a Glycols by 8015B

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255672
Reported: 08/17/11 at 01:23 PM

Surrogate Quality Control

Batch number: 111940001A

	Tetramethylene glycol
6340791	79
6340792	82
6340793	73
6340795	72
6340796	83
6340797	83
6340798	89
6340800	87
6340801	85
6340802	85
Blank	102
LCS	109
MS	83
MSD	89
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111970011A

	Chlorobenzene	Orthoterphenyl
6340791	75	87
6340792	79	90
6340793	82	100
6340795	75	92
6340796	77	99
6340797	83	98
6340798	94	113
6340800	75	84
6340801	86	97
6340802	88	99
Blank	73	87
LCS	77	91
MS	83	98
MSD	94	113
Limits:	37-125	47-145

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111990011A

	n-Triacontane-d62
6340791	76
6340792	73
6340793	75
6340795	68
6340796	1*
6340797	25*
6340798	2*
6340800	46*
6340801	109
6340802	41*
Blank	80
LCS	79

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Quality Control Summary

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Reported: 08/17/11 at 01:23 PM

Surrogate Quality Control

MS	25*
MSD	2*
Limits:	50-150

*- Outside of specification
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13013/1255672/6340788-802

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-149-SA5DN-SB-4.5	07.09.11	0810	SOIL	NONE	4-Encores										X	X											
SL-149-SA5DN-SB-4.0-5.0	07.09.11	0815	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-199-SA5DN-SB-4.5	07.09.11	0955	SOIL	NONE	4-Encores										X	X											
SL-199-SA5DN-SB-4.0-5.0	07.09.11	1000	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-199-SA5DN-SB-9.0-10.0	07.09.11	1005	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-135-SA6-SB-4.5	07.09.11	1205	SOIL	NONE	5-Encores										X	X	X										
SL-135-SA6-SB-4.0-5.0	07.09.11	1200	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	Primary, alcohols, glycols, terphenyls, TPH only
SL-138-SA6-SB-4.5	07.09.11	1500	SOIL	NONE	5-Encores										X	X	X										
SL-138-SA6-SB-4.0-5.0	07.09.11	1505	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	Primary, alcohols, glycols, terphenyls, TPH only
SL-138-SA6-SB-8.5	07.09.11	1510	SOIL	NONE	1-Encores												X										
SL-138-SA6-SB-9.0-10.0	07.09.11	1515	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	Primary, alcohols, glycols, terphenyls, TPH only
TB-070911	07.09.11	0800	WATER	NONE	4-40mL vials										X	X	X										

Relinquished by: (Signature) — Date/Time: 07/09/2011 / 1600 — Received for Laboratory by: (Signature)

Received by: (Signature) — Date/Time: 7/11/11 0755 — Airbill No.(s): 8754 3340 3231,5598

Laboratory: Lancaster Laboratories, Inc.

13013/1255672/6340788-802

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS										
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C. Samplers Signatures:						*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes Amended COC
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																							
SL-149-SA5DN-SB-4.5	07.11.11	0810	SOIL	NONE	4-Encores										X	X												
SL-149-SA5DN-SB-4.0-5.0	07.11.11	0815	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X															
SL-199-SA5DN-SB-4.5	07.11.11	0955	SOIL	NONE	4-Encores										X	X												
SL-199-SA5DN-SB-4.0-5.0	07.11.11	1000	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X															
SL-199-SA5DN-SB-9.0-10.0	07.11.11	1005	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X															
SL-135-SA6-SB-4.5	07.11.11	1205	SOIL	NONE	5-Encores										X	X	X											
SL-135-SA6-SB-4.0-5.0	07.11.11	1200	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	Primary,alcohols,glycols,terphenyls,TPH only	
SL-138-SA6-SB-4.5	07.11.11	1500	SOIL	NONE	5-Encores										X	X	X											
SL-138-SA6-SB-4.0-5.0	07.11.11	1505	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	Primary,alcohols,glycols,terphenyls,TPH only	
SL-138-SA6-SB-9.5	07.11.11	1510	SOIL	NONE	1-Encores												X											
SL-138-SA6-SB-9.0-10.0	07.11.11	1515	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	Primary,alcohols,glycols,terphenyls,TPH only	
TB-070911	07.11.11	0800	WATER	NONE	4-40mL vials										X	X	X											
Relinquished by: (*Signature*)	Date/Time 07/11/2011 / 1600		Received for Laboratory by: (*Signature*)																								Laboratory: Lancaster Laboratories, Inc.	
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8754 3340 3231,5598																									

13013/1255672/6340788-802

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-149-SA6-SS-0.0-0.5	07.09.11	0915	SOIL	NONE	1-SS Sleeve			X	X																	
SL-149-SA6-SS-0.0-0.5	07.09.11	0915	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X	X						X	X	X	
SL-297-SA6-SS-0.0-0.5MS	07.09.11	0942	SOIL	NONE	2-SS Sleeve			X	X																	MS/MSD
SL-297-SA6-SS-0.0-0.5MS	07.09.11	0942	SOIL	NONE	4-16 oz. jars	X	X			X	X	X	X	X	X	X	X						X	X	X	MS/MSD
SL-292-SA6-SS-0.0-0.5	07.09.11	1200	SOIL	NONE	1-SS Sleeve			X	X																	
SL-292-SA6-SS-0.0-0.5	07.09.11	1200	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X	X						X	X	X	
SL-298-SA6-SS-0.0-0.5	07.09.11	0832	SOIL	NONE	1-SS Sleeve			X	X																	
SL-298-SA6-SS-0.0-0.5	07.09.11	0832	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X	X						X	X	X	
DUP01-SA6-QC-071111	07.09.11	0950	SOIL	NONE	1-SS Sleeve			X	X																	
DUP01-SA6-QC-071111	07.09.11	0950	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X	X						X	X	X	

Relinquished by: (Signature)	Date/Time 07/09/2011 / 1600	Received for Laboratory by: (Signature)	Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time 7/11/11 0935	Airbill No.(s) 8754 3340 3231,5598	

13013 | 1255672 / 6340788-802

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS										SS ONLY		SECONDARY FOR ALL LOCATIONS										
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C. Samplers Signatures:						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes Amended COC
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																							
SL-149-SA6-SS-0.0-0.5	07.11.11	0915	SOIL	NONE	1-SS Sleeve			X	X																			
SL-149-SA6-SS-0.0-0.5	07.11.11	0915	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X	X						X	X	X			
SL-297-SA6-SS-0.0-0.5MS	07.11.11	0942	SOIL	NONE	2-SS Sleeve			X	X																			MS/MSD
SL-297-SA6-SS-0.0-0.5MS	07.11.11	0942	SOIL	NONE	4-16 oz. jars	X	X			X	X	X	X	X	X	X	X						X	X	X			MS/MSD
SL-292-SA6-SS-0.0-0.5	07.11.11	1200	SOIL	NONE	1-SS Sleeve			X	X																			
SL-292-SA6-SS-0.0-0.5	07.11.11	1200	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X	X						X	X	X			
SL-296-SA6-SS-0.0-0.5	07.11.11	0832	SOIL	NONE	1-SS Sleeve			X	X																			
SL-296-SA6-SS-0.0-0.5	07.11.11	0832	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X	X						X	X	X			
DUP01-SA6-QC-071111	07.11.11	0950	SOIL	NONE	1-SS Sleeve			X	X																			
DUP01-SA6-QC-071111	07.11.11	0950	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X	X						X	X	X			
Relinquished by: (*Signature*)	Date/Time 07/11/2011 / 1600		Received for Laboratory by: (*Signature*)																								Laboratory: Lancaster Laboratories, Inc.	
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8754 3340 3231,5598																									

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/12/2011
Group Number: 1255718
SDG: DX110
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-149-SA5DN-SB-4.0-5.0 Soil	6340984
SL-199-SA5DN-SB-4.0-5.0 Soil	6340985
SL-199-SA5DN-SB-9.0-10.0 Soil	6340986
SL-135-SA6-SB-4.0-5.0 Soil	6340987
SL-138-SA6-SB-4.0-5.0 Soil	6340988
SL-138-SA6-SB-9.0-10.0 Soil	6340989
SL-149-SA6-SS-0.0-0.5 Soil	6340990
SL-297-SA6-SS-0.0-0.5 Soil	6340991
SL-297-SA6-SS-0.0-0.5MS Soil	6340992
SL-297-SA6-SS-0.0-0.5MSD Soil	6340993
SL-292-SA6-SS-0.0-0.5 Soil	6340994
SL-298-SA6-SS-0.0-0.5 Soil	6340995
DUP01-SA6-QC-071111 Soil	6340996

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-149-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA5DN-SB-4.0-5.0

LLI Sample # SW 6340984
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 08:15

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14945 SDG#: DX110-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-149-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA5DN-SB-4.0-5.0

LLI Sample # SW 6340984
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 08:15

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14945 SDG#: DX110-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0505	U	0.0505	1.09	1
11031	12378-PeCDD	40321-76-4	0.0375	U	0.0375	5.44	1
11031	123478-HxCDD	39227-28-6	0.0380	U	0.0380	5.44	1
11031	123678-HxCDD	57653-85-7	0.109	JBQ	0.0385	5.44	1
11031	123789-HxCDD	19408-74-3	0.122	JBQ	0.0382	5.44	1
11031	1234678-HpCDD	35822-46-9	0.807	JBQ	0.0654	5.44	1
11031	OCDD	3268-87-9	6.19	JB	0.0920	10.9	1
11031	2378-TCDF	51207-31-9	0.0418	U	0.0418	1.09	1
11031	12378-PeCDF	57117-41-6	0.0310	JQ	0.0213	5.44	1
11031	23478-PeCDF	57117-31-4	0.0580	JB	0.0220	5.44	1
11031	123478-HxCDF	70648-26-9	0.0619	JB	0.0256	5.44	1
11031	123678-HxCDF	57117-44-9	0.0558	JB	0.0215	5.44	1
11031	123789-HxCDF	72918-21-9	0.0982	JBQ	0.0370	5.44	1
11031	234678-HxCDF	60851-34-5	0.0801	JBQ	0.0247	5.44	1
11031	1234678-HpCDF	67562-39-4	0.251	JB	0.0272	5.44	1
11031	1234789-HpCDF	55673-89-7	0.0676	U	0.0676	5.44	1
11031	OCDF	39001-02-0	0.518	JBQ	0.118	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	54	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	51	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	43	26 - 138
13C12-OCDF	33	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-149-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-149-SA5DN-SB-4.0-5.0

LLI Sample # SW 6340984
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 08:15

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14945 SDG#: DX110-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-149-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA5DN-SB-4.0-5.0

LLI Sample # SW 6340984
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 08:15

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14945 SDG#: DX110-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11203001	07/25/2011 22:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11203001	07/22/2011 10:45	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-199-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SB-4.0-5.0

LLI Sample # SW 6340985
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 10:00

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19945 SDG#: DX110-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-199-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SB-4.0-5.0

LLI Sample # SW 6340985
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 10:00

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19945 SDG#: DX110-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0492 U	0.0492	1.16	1
11031	12378-PeCDD	40321-76-4	0.0889 JBQ	0.0399	5.79	1
11031	123478-HxCDD	39227-28-6	0.0396 JBQ	0.0355	5.79	1
11031	123678-HxCDD	57653-85-7	0.188 JB	0.0362	5.79	1
11031	123789-HxCDD	19408-74-3	0.438 JBQ	0.0370	5.79	1
11031	1234678-HpCDD	35822-46-9	0.703 JB	0.0582	5.79	1
11031	OCDD	3268-87-9	2.11 JB	0.0645	11.6	1
11031	2378-TCDF	51207-31-9	0.0412 U	0.0412	1.16	1
11031	12378-PeCDF	57117-41-6	0.145 JQ	0.0215	5.79	1
11031	23478-PeCDF	57117-31-4	0.0485 JB	0.0228	5.79	1
11031	123478-HxCDF	70648-26-9	0.0741 JBQ	0.0302	5.79	1
11031	123678-HxCDF	57117-44-9	0.0407 JBQ	0.0237	5.79	1
11031	123789-HxCDF	72918-21-9	0.538 JBQ	0.0468	5.79	1
11031	234678-HxCDF	60851-34-5	0.0839 JB	0.0279	5.79	1
11031	1234678-HpCDF	67562-39-4	0.195 JB	0.0167	5.79	1
11031	1234789-HpCDF	55673-89-7	0.0467 U	0.0467	5.79	1
11031	OCDF	39001-02-0	0.264 JB	0.148	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	65	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	47	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	39	26 - 138
13C12-OCDF	30	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-199-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SB-4.0-5.0

LLI Sample # SW 6340985
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 10:00

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19945 SDG#: DX110-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-199-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SB-4.0-5.0

LLI Sample # SW 6340985
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 10:00

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19945 SDG#: DX110-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11203001	07/25/2011 23:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11203001	07/22/2011 10:45	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-199-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SB-9.0-10.0

LLI Sample # SW 6340986
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 10:05

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19990 SDG#: DX110-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-199-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SB-9.0-10.0

LLI Sample # SW 6340986
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 10:05

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19990 SDG#: DX110-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0456 U	0.0456	1.11	1
11031	12378-PeCDD	40321-76-4	0.0367 U	0.0367	5.57	1
11031	123478-HxCDD	39227-28-6	0.0321 U	0.0321	5.57	1
11031	123678-HxCDD	57653-85-7	0.0397 JBQ	0.0321	5.57	1
11031	123789-HxCDD	19408-74-3	0.0660 JBQ	0.0316	5.57	1
11031	1234678-HpCDD	35822-46-9	0.857 JB	0.0599	5.57	1
11031	OCDD	3268-87-9	3.74 JB	0.0480	11.1	1
11031	2378-TCDF	51207-31-9	0.0430 U	0.0430	1.11	1
11031	12378-PeCDF	57117-41-6	0.0345 JQ	0.0211	5.57	1
11031	23478-PeCDF	57117-31-4	0.0579 JBQ	0.0220	5.57	1
11031	123478-HxCDF	70648-26-9	0.0465 JBQ	0.0213	5.57	1
11031	123678-HxCDF	57117-44-9	0.0191 JBQ	0.0187	5.57	1
11031	123789-HxCDF	72918-21-9	0.0283 U	0.0283	5.57	1
11031	234678-HxCDF	60851-34-5	0.0487 JBQ	0.0201	5.57	1
11031	1234678-HpCDF	67562-39-4	0.227 JBQ	0.0162	5.57	1
11031	1234789-HpCDF	55673-89-7	0.0376 JBQ	0.0354	5.57	1
11031	OCDF	39001-02-0	0.271 JBQ	0.0989	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	43	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-199-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SB-9.0-10.0

LLI Sample # SW 6340986
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 10:05

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19990 SDG#: DX110-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-199-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SB-9.0-10.0

LLI Sample # SW 6340986
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 10:05

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19990 SDG#: DX110-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11203001	07/26/2011 00:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11203001	07/22/2011 10:45	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-135-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA6-SB-4.0-5.0

LLI Sample # SW 6340987
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 12:00

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13540 SDG#: DX110-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-135-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA6-SB-4.0-5.0

LLI Sample # SW 6340987
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 12:00

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13540 SDG#: DX110-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0443 U	0.0443	1.15	1
11031	12378-PeCDD	40321-76-4	0.0309 U	0.0309	5.75	1
11031	123478-HxCDD	39227-28-6	0.0452 JBQ	0.0289	5.75	1
11031	123678-HxCDD	57653-85-7	0.0749 JBQ	0.0289	5.75	1
11031	123789-HxCDD	19408-74-3	0.0932 JBQ	0.0267	5.75	1
11031	1234678-HpCDD	35822-46-9	0.458 JB	0.0418	5.75	1
11031	OCDD	3268-87-9	0.987 JBQ	0.0373	11.5	1
11031	2378-TCDF	51207-31-9	0.0358 U	0.0358	1.15	1
11031	12378-PeCDF	57117-41-6	0.0288 JQ	0.0166	5.75	1
11031	23478-PeCDF	57117-31-4	0.0432 JBQ	0.0169	5.75	1
11031	123478-HxCDF	70648-26-9	0.0268 JBQ	0.0185	5.75	1
11031	123678-HxCDF	57117-44-9	0.0153 U	0.0153	5.75	1
11031	123789-HxCDF	72918-21-9	0.0542 JBQ	0.0226	5.75	1
11031	234678-HxCDF	60851-34-5	0.0516 JB	0.0167	5.75	1
11031	1234678-HpCDF	67562-39-4	0.177 JBQ	0.0124	5.75	1
11031	1234789-HpCDF	55673-89-7	0.0298 JBQ	0.0264	5.75	1
11031	OCDF	39001-02-0	0.229 JBQ	0.0754	11.5	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	61	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	45	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-135-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA6-SB-4.0-5.0

LLI Sample # SW 6340987
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 12:00

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13540 SDG#: DX110-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-135-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA6-SB-4.0-5.0

LLI Sample # SW 6340987
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 12:00

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13540 SDG#: DX110-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11203001	07/26/2011 01:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11203001	07/22/2011 10:45	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-138-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA6-SB-4.0-5.0

LLI Sample # SW 6340988
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:05

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13840 SDG#: DX110-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-138-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA6-SB-4.0-5.0

LLI Sample # SW 6340988
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:05

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13840 SDG#: DX110-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0439 U	0.0439	1.06	1
11031	12378-PeCDD	40321-76-4	0.0325 U	0.0325	5.31	1
11031	123478-HxCDD	39227-28-6	0.0256 U	0.0256	5.31	1
11031	123678-HxCDD	57653-85-7	0.0317 JB	0.0251	5.31	1
11031	123789-HxCDD	19408-74-3	0.0571 JBQ	0.0241	5.31	1
11031	1234678-HpCDD	35822-46-9	0.493 JB	0.0482	5.31	1
11031	OCDD	3268-87-9	1.60 JB	0.0466	10.6	1
11031	2378-TCDF	51207-31-9	0.0328 U	0.0328	1.06	1
11031	12378-PeCDF	57117-41-6	0.0189 U	0.0189	5.31	1
11031	23478-PeCDF	57117-31-4	0.0546 JBQ	0.0193	5.31	1
11031	123478-HxCDF	70648-26-9	0.0321 JBQ	0.0235	5.31	1
11031	123678-HxCDF	57117-44-9	0.0239 JBQ	0.0198	5.31	1
11031	123789-HxCDF	72918-21-9	0.0241 U	0.0241	5.31	1
11031	234678-HxCDF	60851-34-5	0.0529 JBQ	0.0177	5.31	1
11031	1234678-HpCDF	67562-39-4	0.129 JB	0.0141	5.31	1
11031	1234789-HpCDF	55673-89-7	0.0361 JBQ	0.0272	5.31	1
11031	OCDF	39001-02-0	0.138 JBQ	0.0932	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	65	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	43	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-138-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA6-SB-4.0-5.0

LLI Sample # SW 6340988
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:05

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13840 SDG#: DX110-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-138-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA6-SB-4.0-5.0

LLI Sample # SW 6340988
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:05

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13840 SDG#: DX110-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11203001	07/26/2011 02:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11203001	07/22/2011 10:45	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

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Analysis Report

Sample Description: SL-138-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA6-SB-9.0-10.0

LLI Sample # SW 6340989
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:15

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13890 SDG#: DX110-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-138-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA6-SB-9.0-10.0

LLI Sample # SW 6340989
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:15

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13890 SDG#: DX110-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.113	JQ	0.0475	1.10	1
11031	12378-PeCDD	40321-76-4	0.133	JBQ	0.0456	5.51	1
11031	123478-HxCDD	39227-28-6	0.121	JBQ	0.0329	5.51	1
11031	123678-HxCDD	57653-85-7	0.108	JB	0.0341	5.51	1
11031	123789-HxCDD	19408-74-3	0.0675	JBQ	0.0334	5.51	1
11031	1234678-HpCDD	35822-46-9	0.848	JBQ	0.0633	5.51	1
11031	OCDD	3268-87-9	4.73	JB	0.0583	11.0	1
11031	2378-TCDF	51207-31-9	0.0412	U	0.0412	1.10	1
11031	12378-PeCDF	57117-41-6	0.176	JQ	0.0221	5.51	1
11031	23478-PeCDF	57117-31-4	0.191	JB	0.0212	5.51	1
11031	123478-HxCDF	70648-26-9	0.160	JBQ	0.0249	5.51	1
11031	123678-HxCDF	57117-44-9	0.0833	JBQ	0.0211	5.51	1
11031	123789-HxCDF	72918-21-9	0.115	JBQ	0.0290	5.51	1
11031	234678-HxCDF	60851-34-5	0.101	JBQ	0.0230	5.51	1
11031	1234678-HpCDF	67562-39-4	0.272	JB	0.0168	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0574	JBQ	0.0303	5.51	1
11031	OCDF	39001-02-0	0.447	JBQ	0.0928	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	47	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-138-SA6-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA6-SB-9.0-10.0

LLI Sample # SW 6340989
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:15

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13890 SDG#: DX110-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-138-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA6-SB-9.0-10.0

LLI Sample # SW 6340989
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:15

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13890 SDG#: DX110-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11203001	07/26/2011 06:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11203001	07/22/2011 10:45	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

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Analysis Report

Sample Description: SL-149-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA6-SS-0.0-0.5

LLI Sample # SW 6340990
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:15

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14900 SDG#: DX110-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-149-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA6-SS-0.0-0.5

LLI Sample # SW 6340990
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:15

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14900 SDG#: DX110-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.267	J	0.0381	1.00	1
11031	12378-PeCDD	40321-76-4	0.906	JB	0.0658	5.02	1
11031	123478-HxCDD	39227-28-6	1.14	JB	0.0884	5.02	1
11031	123678-HxCDD	57653-85-7	2.65	JB	0.0872	5.02	1
11031	123789-HxCDD	19408-74-3	1.87	JB	0.0843	5.02	1
11031	1234678-HpCDD	35822-46-9	61.9	B	0.129	5.02	1
11031	OCDD	3268-87-9	650	B	0.131	10.0	1
11650	2378-TCDF-Conf	51207-31-9	1.05	C	0.0572	1.00	1
11031	12378-PeCDF	57117-41-6	1.01	J	0.0680	5.02	1
11031	23478-PeCDF	57117-31-4	1.27	JB	0.0626	5.02	1
11031	123478-HxCDF	70648-26-9	2.61	JB	0.0773	5.02	1
11031	123678-HxCDF	57117-44-9	0.993	JB	0.0707	5.02	1
11031	123789-HxCDF	72918-21-9	0.434	JBQ	0.0754	5.02	1
11031	234678-HxCDF	60851-34-5	1.04	JB	0.0614	5.02	1
11031	1234678-HpCDF	67562-39-4	9.11	B	0.0520	5.02	1
11031	1234789-HpCDF	55673-89-7	1.24	JB	0.0714	5.02	1
11031	OCDF	39001-02-0	18.0	B	0.0685	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-2378-TCDF-Conf	66	24 - 169
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	55	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-149-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA6-SS-0.0-0.5

LLI Sample # SW 6340990
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:15

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14900 SDG#: DX110-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-149-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA6-SS-0.0-0.5

LLI Sample # SW 6340990
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:15

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14900 SDG#: DX110-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11203001	07/26/2011 07:23	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11203001	07/27/2011 23:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11203001	07/22/2011 10:45	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-297-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340991
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29700 SDG#: DX110-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.85	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-297-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340991
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29700 SDG#: DX110-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.939 JQ	0.0911	1.01	1
11031	12378-PeCDD	40321-76-4	7.47 B	0.282	5.04	1
11031	123478-HxCDD	39227-28-6	12.0 B	0.234	5.04	1
11031	123678-HxCDD	57653-85-7	70.9 B	0.236	5.04	1
11031	123789-HxCDD	19408-74-3	27.6 B	0.229	5.04	1
11031	1234678-HpCDD	35822-46-9	2,850 EB	0.535	5.04	1
11031	OCDD	3268-87-9	56,700 EB	1.02	10.1	1
11650	2378-TCDF-Conf	51207-31-9	11.8 C	0.186	1.01	1
11031	12378-PeCDF	57117-41-6	33.6	0.257	5.04	1
11031	23478-PeCDF	57117-31-4	28.7 B	0.240	5.04	1
11031	123478-HxCDF	70648-26-9	30.7 B	0.202	5.04	1
11031	123678-HxCDF	57117-44-9	17.7 B	0.195	5.04	1
11031	123789-HxCDF	72918-21-9	5.90 B	0.234	5.04	1
11031	234678-HxCDF	60851-34-5	31.1 B	0.192	5.04	1
11031	1234678-HpCDF	67562-39-4	354 B	0.242	5.04	1
11031	1234789-HpCDF	55673-89-7	41.6 B	0.317	5.04	1
11031	OCDF	39001-02-0	736 B	0.174	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-2378-TCDF-Conf	85	24 - 169
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	78	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: SL-297-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340991
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29700 SDG#: DX110-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	60	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-297-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5

LLI Sample # SW 6340991
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29700 SDG#: DX110-08BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11203001	07/26/2011 08:20	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11203001	07/28/2011 00:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11203001	07/22/2011 10:45	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-297-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5MS

LLI Sample # SW 6340992
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29700 SDG#: DX110-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.85	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-297-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5MS

LLI Sample # SW 6340992
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29700 SDG#: DX110-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	19.7	0.100	1.00	1
11031	12378-PeCDD	40321-76-4	104 B	0.267	5.00	1
11031	123478-HxCDD	39227-28-6	110 B	0.251	5.00	1
11031	123678-HxCDD	57653-85-7	167 B	0.251	5.00	1
11031	123789-HxCDD	19408-74-3	124 B	0.241	5.00	1
11031	1234678-HpCDD	35822-46-9	2,920 EB	0.529	5.00	1
11031	OCDD	3268-87-9	55,700 EB	0.838	10.0	1
11031	2378-TCDF	51207-31-9	34.7	0.680	1.00	1
11031	12378-PeCDF	57117-41-6	136	0.265	5.00	1
11031	23478-PeCDF	57117-31-4	124 B	0.246	5.00	1
11031	123478-HxCDF	70648-26-9	122 B	0.226	5.00	1
11031	123678-HxCDF	57117-44-9	112 B	0.221	5.00	1
11031	123789-HxCDF	72918-21-9	101 B	0.267	5.00	1
11031	234678-HxCDF	60851-34-5	129 B	0.228	5.00	1
11031	1234678-HpCDF	67562-39-4	453 B	0.212	5.00	1
11031	1234789-HpCDF	55673-89-7	138 B	0.295	5.00	1
11031	OCDF	39001-02-0	924 B	0.168	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	64	26 - 138

*=This limit was used in the evaluation of the final result

Sample Description: SL-297-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5MS

LLI Sample # SW 6340992
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29700 SDG#: DX110-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Labeled Compounds		**%Rec**	**Windows**			
13C12-OCDF		57	17 - 157			

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-297-SA6-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5MS

LLI Sample # SW 6340992
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29700 SDG#: DX110-08MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11203001	07/26/2011 09:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11203001	07/22/2011 10:45	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-297-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5MSD

LLI Sample # SW 6340993
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

29700 SDG#: DX110-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.85	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-297-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5MSD

LLI Sample # SW 6340993
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29700 SDG#: DX110-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	19.0	0.0941	0.996	1
11031	12378-PeCDD	40321-76-4	102 B	0.234	4.98	1
11031	123478-HxCDD	39227-28-6	108 B	0.183	4.98	1
11031	123678-HxCDD	57653-85-7	163 B	0.181	4.98	1
11031	123789-HxCDD	19408-74-3	122 B	0.179	4.98	1
11031	1234678-HpCDD	35822-46-9	2,880 EB	0.555	4.98	1
11031	OCDD	3268-87-9	55,600 EB	0.883	9.96	1
11031	2378-TCDF	51207-31-9	33.9	0.628	0.996	1
11031	12378-PeCDF	57117-41-6	122	0.236	4.98	1
11031	23478-PeCDF	57117-31-4	122 B	0.216	4.98	1
11031	123478-HxCDF	70648-26-9	120 B	0.228	4.98	1
11031	123678-HxCDF	57117-44-9	111 B	0.221	4.98	1
11031	123789-HxCDF	72918-21-9	99.1 B	0.248	4.98	1
11031	234678-HxCDF	60851-34-5	126 B	0.212	4.98	1
11031	1234678-HpCDF	67562-39-4	456 B	0.210	4.98	1
11031	1234789-HpCDF	55673-89-7	136 B	0.267	4.98	1
11031	OCDF	39001-02-0	901 B	0.176	9.96	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	54	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	61	26 - 138

*=This limit was used in the evaluation of the final result

Sample Description: SL-297-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5MSD

LLI Sample # SW 6340993
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29700 SDG#: DX110-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-OCDF	54	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-297-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA6-SS-0.0-0.5MSD

LLI Sample # SW 6340993
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:42

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29700 SDG#: DX110-08MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11203001	07/26/2011 10:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11203001	07/22/2011 10:45	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-292-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-292-SA6-SS-0.0-0.5

LLI Sample # SW 6340994
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 12:00

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29200 SDG#: DX110-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-292-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-292-SA6-SS-0.0-0.5

LLI Sample # SW 6340994
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 12:00

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29200 SDG#: DX110-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.643	JQ	0.0925	1.00	1
11031	12378-PeCDD	40321-76-4	2.04	JB	0.184	5.01	1
11031	123478-HxCDD	39227-28-6	2.52	JB	0.122	5.01	1
11031	123678-HxCDD	57653-85-7	7.55	B	0.125	5.01	1
11031	123789-HxCDD	19408-74-3	4.86	JB	0.122	5.01	1
11031	1234678-HpCDD	35822-46-9	177	B	0.223	5.01	1
11031	OCDD	3268-87-9	2,220	B	0.304	10.0	1
11031	2378-TCDF	51207-31-9	3.35	CQ	0.280	1.00	1
11031	12378-PeCDF	57117-41-6	3.99	J	0.126	5.01	1
11031	23478-PeCDF	57117-31-4	4.57	JB	0.117	5.01	1
11031	123478-HxCDF	70648-26-9	5.77	B	0.111	5.01	1
11031	123678-HxCDF	57117-44-9	3.55	JB	0.113	5.01	1
11031	123789-HxCDF	72918-21-9	1.02	JB	0.130	5.01	1
11031	234678-HxCDF	60851-34-5	3.32	JB	0.107	5.01	1
11031	1234678-HpCDF	67562-39-4	25.3	B	0.138	5.01	1
11031	1234789-HpCDF	55673-89-7	2.67	JB	0.181	5.01	1
11031	OCDF	39001-02-0	38.7	B	0.103	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	55	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-292-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-292-SA6-SS-0.0-0.5

LLI Sample # SW 6340994
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 12:00

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29200 SDG#: DX110-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-292-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-292-SA6-SS-0.0-0.5

LLI Sample # SW 6340994
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 12:00

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29200 SDG#: DX110-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11203001	07/26/2011 11:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11203001	07/22/2011 10:45	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-298-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA6-SS-0.0-0.5

LLI Sample # SW 6340995
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 08:32

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29800 SDG#: DX110-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-298-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA6-SS-0.0-0.5

LLI Sample # SW 6340995
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 08:32

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29800 SDG#: DX110-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	2.24 Q	0.116	1.00	1
11031	12378-PeCDD	40321-76-4	14.2 B	0.463	5.02	1
11031	123478-HxCDD	39227-28-6	34.4 B	0.613	5.02	1
11031	123678-HxCDD	57653-85-7	185 B	0.611	5.02	1
11031	123789-HxCDD	19408-74-3	78.0 B	0.575	5.02	1
11031	1234678-HpCDD	35822-46-9	5,730 EB	1.09	5.02	1
11031	OCDD	3268-87-9	97,400 EB	1.61	10.0	1
11650	2378-TCDF-Conf	51207-31-9	6.91 C	0.195	1.00	1
11031	12378-PeCDF	57117-41-6	20.6	0.373	5.02	1
11031	23478-PeCDF	57117-31-4	14.5 B	0.343	5.02	1
11031	123478-HxCDF	70648-26-9	43.6 B	0.424	5.02	1
11031	123678-HxCDF	57117-44-9	32.6 B	0.421	5.02	1
11031	123789-HxCDF	72918-21-9	7.34 B	0.468	5.02	1
11031	234678-HxCDF	60851-34-5	59.3 B	0.397	5.02	1
11031	1234678-HpCDF	67562-39-4	632 B	0.370	5.02	1
11031	1234789-HpCDF	55673-89-7	95.7 B	0.442	5.02	1
11031	OCDF	39001-02-0	1,370 B	0.257	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	61	25 - 164
13C12-2378-TCDF-Conf	63	24 - 169
13C12-12378-PeCDD	57	25 - 181
13C12-123478-HxCDD	54	32 - 141
13C12-123678-HxCDD	57	28 - 130
13C12-123789-HxCDD	59	28 - 130
13C12-1234678-HpCDD	55	23 - 140
13C12-OCDD	46	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	58	24 - 185
13C12-23478-PeCDF	57	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	54	26 - 123
13C12-234678-HxCDF	58	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: SL-298-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA6-SS-0.0-0.5

LLI Sample # SW 6340995
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 08:32

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29800 SDG#: DX110-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	52	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	45	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-298-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA6-SS-0.0-0.5

LLI Sample # SW 6340995
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 08:32

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29800 SDG#: DX110-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11203001	07/26/2011 12:06	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11203001	07/28/2011 02:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11203001	07/22/2011 10:45	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP01-SA6-QC-071111 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA6-QC-071111

LLI Sample # SW 6340996
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:50

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

FD01- SDG#: DX110-11FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.80	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP01-SA6-QC-071111 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA6-QC-071111

LLI Sample # SW 6340996
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:50

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

FD01- SDG#: DX110-11FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.936 J	0.100	1.01	1
11031	12378-PeCDD	40321-76-4	6.57 B	0.304	5.03	1
11031	123478-HxCDD	39227-28-6	14.0 B	0.295	5.03	1
11031	123678-HxCDD	57653-85-7	84.3 B	0.295	5.03	1
11031	123789-HxCDD	19408-74-3	31.9 B	0.294	5.03	1
11031	1234678-HpCDD	35822-46-9	3,330 EB	0.640	5.03	1
11031	OCDD	3268-87-9	66,100 EB	1.15	10.1	1
11650	2378-TCDF-Conf	51207-31-9	11.5 C	0.234	1.01	1
11031	12378-PeCDF	57117-41-6	51.0	0.314	5.03	1
11031	23478-PeCDF	57117-31-4	34.2 B	0.280	5.03	1
11031	123478-HxCDF	70648-26-9	33.5 B	0.234	5.03	1
11031	123678-HxCDF	57117-44-9	20.7 B	0.230	5.03	1
11031	123789-HxCDF	72918-21-9	6.47 B	0.272	5.03	1
11031	234678-HxCDF	60851-34-5	37.9 B	0.234	5.03	1
11031	1234678-HpCDF	67562-39-4	419 B	0.290	5.03	1
11031	1234789-HpCDF	55673-89-7	49.0 B	0.404	5.03	1
11031	OCDF	39001-02-0	848 B	0.180	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-2378-TCDF-Conf	75	24 - 169
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	75	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: DUP01-SA6-QC-071111 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA6-QC-071111

LLI Sample # SW 6340996
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:50

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

FD01- SDG#: DX110-11FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP01-SA6-QC-071111 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA6-QC-071111

LLI Sample # SW 6340996
LLI Group # 1255718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 09:50

Submitted: 07/12/2011 09:35
Reported: 08/12/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

FD01- SDG#: DX110-11FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11203001	07/26/2011 13:03	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11203001	07/28/2011 04:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11203001	07/22/2011 10:45	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162401B	07/20/2011 19:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255718
Reported: 08/12/11 at 11:39 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11201162401B	Sample number(s): 6340984-6340996								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11203001	Sample number(s): 6340984-6340996								
2378-TCDD	0.0422 U	0.0422	1.00	ng/kg	93		67-158		
12378-PeCDD	0.0396 J	0.0344	5.00	ng/kg	94		70-142		
123478-HxCDD	0.0284 J	0.0259	5.00	ng/kg	95		70-164		
123678-HxCDD	0.0466 J	0.0260	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0580 J	0.0255	5.00	ng/kg	95		64-162		
1234678-HpCDD	0.487 J	0.0421	5.00	ng/kg	94		70-140		
OCDD	0.904 J	0.0372	10.0	ng/kg	93		78-144		
2378-TCDF	0.0391 U	0.0391	1.00	ng/kg	92		75-158		
2378-TCDF-Conf	0.0224 J	0.0165	1.00	ng/kg	92		75-158		
12378-PeCDF	0.0173 U	0.0173	5.00	ng/kg	89		80-134		
23478-PeCDF	0.0844 J	0.0178	5.00	ng/kg	89		68-160		
123478-HxCDF	0.0788 J	0.0195	5.00	ng/kg	89		72-134		
123678-HxCDF	0.0517 J	0.0162	5.00	ng/kg	90		84-130		
123789-HxCDF	0.0495 J	0.0239	5.00	ng/kg	90		78-130		
234678-HxCDF	0.0900 J	0.0178	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.198 J	0.0195	5.00	ng/kg	90		82-122		
1234789-HpCDF	0.0894 J	0.0452	5.00	ng/kg	94		78-138		
OCDF	0.314 J	0.0902	10.0	ng/kg	91		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11201162401B	Sample number(s): 6340984-6340996 BKG: P340796								
Moisture Content by 160.3						0.85	0.89	5 (1)	20
Batch number: 11203001	Sample number(s): 6340984-6340996 UNSPK: 6340991								
2378-TCDD	94	91	67-158	3	25				
12378-PeCDD	97	95	70-142	2	25				
123478-HxCDD	98	96	70-164	2	25				
123678-HxCDD	96	93	76-134	2	25				
123789-HxCDD	96	94	64-162	2	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255718
Reported: 08/12/11 at 11:39 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1234678-HpCDD	77 (2)	35 (2)	70-140	1	25				
OCDD	-489 (2)	-572 (2)	78-144	0	25				
2378-TCDF	61*	58*	75-158	2	25				
2378-TCDF-Conf	61*	58*	75-158	2	25				
12378-PeCDF	102	88	80-134	11	25				
23478-PeCDF	96	94	68-160	2	25				
123478-HxCDF	91	90	72-134	2	25				
123678-HxCDF	94	94	84-130	0	25				
123789-HxCDF	95	94	78-130	1	25				
234678-HxCDF	98	96	70-156	2	25				
1234678-HpCDF	99	102	82-122	1	25				
1234789-HpCDF	96	95	78-138	1	25				
OCDF	94	83	63-170	3	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11203001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6340984	68	65	62	75	64	51
6340985	65	58	60	75	61	47
6340986	65	59	65	75	68	59
6340987	61	66	65	79	71	62
6340988	65	62	54	63	69	62
6340989	68	65	61	70	66	62
6340990	71	67	59	65	72	69
6340991	85	79	76	76	78	76
6340992	78	73	74	74	73	72
6340993	72	69	70	68	70	68
6340994	73	67	70	69	71	70
6340995	61	57	53	54	58	57
6340996	77	72	76	76	75	76
Blank	71	66	67	80	71	64
MS	78	73	74	74	73	72
MSD	72	69	70	68	70	68
OPR	63	59	60	71	63	55
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6340984	87	43	33	72	73	74
6340985	91	39	30	65	71	74
6340986	89	52	43	64	71	76
6340987	96	55	45	68	75	77

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255718
Reported: 08/12/11 at 11:39 AM

Surrogate Quality Control

6340988	78	52	43	65	71	73
6340989	76	54	47	66	69	72
6340990	69	60	55	66	73	74
6340991	71	68	60	77	76	77
6340992	70	64	57	71	73	74
6340993	64	61	54	69	70	73
6340994	66	64	55	64	73	73
6340995	52	52	45	57	54	57
6340996	72	66	61	68	76	75
Blank	98	54	45	71	81	83
MS	70	64	57	71	73	74
MSD	64	61	54	69	70	73
OPR	87	49	41	65	71	72
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6340984	72	66	54	63	75	
6340985	71	67	57	58	70	
6340986	74	69	62	62	69	
6340987	77	76	68	59	74	
6340988	75	70	62	68	71	
6340989	71	66	60	69	70	
6340990	75	67	62	66	69	66
6340991	77	74	62	85	81	85
6340992	74	69	58	79	75	
6340993	71	67	54	74	71	
6340994	73	70	59	75	68	
6340995	59	55	46	61	58	63
6340996	76	69	61	75	73	75
Blank	80	78	70	67	75	61
MS	74	69	58	79	75	79
MSD	71	67	54	74	71	74
OPR	70	69	63	58	65	58
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013|1255718|6340984-96

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-149-SA5DN-SB-4.5	07.09.11	0810	SOIL	NONE	4-Encores										X	X											
SL-149-SA5DN-SB-4.0-5.0	07.09.11	0815	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-199-SA5DN-SB-4.5	07.09.11	0955	SOIL	NONE	4-Encores										X	X											
SL-199-SA5DN-SB-4.0-5.0	07.09.11	1000	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-199-SA5DN-SB-9.0-10.0	07.09.11	1005	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-135-SA6-SB-4.5	07.09.11	1205	SOIL	NONE	5-Encores										X	X	X										
SL-135-SA6-SB-4.0-5.0	07.09.11	1200	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X					X	X	X		Primary,alcohols,glycols,terphenyls,TPH only
SL-138-SA6-SB-4.5	07.09.11	1500	SOIL	NONE	5-Encores										X	X	X										
SL-138-SA6-SB-4.0-5.0	07.09.11	1505	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X					X	X	X		Primary,alcohols,glycols,terphenyls,TPH only
SL-138-SA6-SB-8.5	07.09.11	1510	SOIL	NONE	1-Encores												X										
SL-138-SA6-SB-9.0-10.0	07.09.11	1515	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X					X	X	X		Primary,alcohols,glycols,terphenyls,TPH only
TB-070911	07.09.11	0800	WATER	NONE	4-40mL vials										X	X	X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	07/09/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
	7/9/11 1655	8754 3340 3231,5598	

13013/1255718/6340984-9L

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subares 6 (SA8) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-149-SA6-SS-0.0-0.5	07.09.11	0915	SOIL	NONE	1-SS Sleeve			X	X																	
SL-149-SA6-SS-0.0-0.5	07.09.11	0915	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X	X						X	X	X	
SL-297-SA6-SS-0.0-0.5MS	07.09.11	0942	SOIL	NONE	2-SS Sleeve			X	X																	MS/MSD
SL-297-SA6-SS-0.0-0.5MS	07.09.11	0942	SOIL	NONE	4-16 oz. jars	X	X			X	X	X	X	X	X	X	X						X	X	X	MS/MSD
SL-292-SA6-SS-0.0-0.5	07.09.11	1200	SOIL	NONE	1-SS Sleeve			X	X																	
SL-292-SA6-SS-0.0-0.5	07.09.11	1200	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X	X						X	X	X	
SL-298-SA6-SS-0.0-0.5	07.09.11	0832	SOIL	NONE	1-SS Sleeve			X	X																	
SL-298-SA6-SS-0.0-0.5	07.09.11	0832	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X	X						X	X	X	
DUP01-SA6-QC-071111	07.09.11	0950	SOIL	NONE	1-SS Sleeve			X	X																	
DUP01-SA6-QC-071111	07.09.11	0950	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X	X						X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	07/09/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	7/11/11 / 0935	8754 3340 3231,5598	

13013/1255718/6340984-96

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Amended COC
SL-149-SA5DN-SB-4.5	07.11.11	0810	SOIL	NONE	4-Encores									X	X											
SL-149-SA5DN-SB-4.0-5.0	07.11.11	0815	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X													
SL-199-SA5DN-SB-4.5	07.11.11	0955	SOIL	NONE	4-Encores									X	X											
SL-199-SA5DN-SB-4.0-5.0	07.11.11	1000	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X													
SL-199-SA5DN-SB-9.0-10.0	07.11.11	1005	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X													
SL-135-SA6-SB-4.5	07.11.11	1205	SOIL	NONE	5-Encores									X	X	X										
SL-135-SA6-SB-4.0-5.0	07.11.11	1200	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X				X						X	X	X	Primary,alcohols,glycols,terphenyls,TPH only
SL-138-SA6-SB-4.5	07.11.11	1500	SOIL	NONE	5-Encores									X	X	X										
SL-138-SA6-SB-4.0-5.0	07.11.11	1505	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X				X						X	X	X	Primary,alcohols,glycols,terphenyls,TPH only
SL-138-SA6-SB-9.5	07.11.11	1510	SOIL	NONE	1-Encores											X										
SL-138-SA6-SB-9.0-10.0	07.11.11	1515	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X				X						X	X	X	Primary,alcohols,glycols,terphenyls,TPH only
TB-070911	07.11.11	0800	WATER	NONE	4-40mL vials									X	X	X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	07/11/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8754 3340 3231,5598	

13013/1255718/6340984-96

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS										
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/6/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-149-SA6-SS-0.0-0.5	07.11.11	0915	SOIL	NONE	1-SS Sleeve			X	X																	
SL-149-SA6-SS-0.0-0.5	07.11.11	0915	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X	X						X	X	X	
SL-297-SA6-SS-0.0-0.5MS	07.11.11	0942	SOIL	NONE	2-SS Sleeve			X	X																	MS/MSD
SL-297-SA6-SS-0.0-0.5MS	07.11.11	0942	SOIL	NONE	4-16 oz. jars	X	X			X	X	X	X	X	X	X	X						X	X	X	MS/MSD
SL-292-SA6-SS-0.0-0.5	07.11.11	1200	SOIL	NONE	1-SS Sleeve			X	X																	
SL-292-SA6-SS-0.0-0.5	07.11.11	1200	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X	X						X	X	X	
SL-298-SA6-SS-0.0-0.5	07.11.11	0832	SOIL	NONE	1-SS Sleeve			X	X																	
SL-298-SA6-SS-0.0-0.5	07.11.11	0832	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X	X						X	X	X	
DUP01-SA6-QC-071111	07.11.11	0950	SOIL	NONE	1-SS Sleeve			X	X																	
DUP01-SA6-QC-071111	07.11.11	0950	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X	X						X	X	X	

Other Instructions and Notes: Amended COC

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	07/11/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8754 3340 3231,5598	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 24, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/13/2011
Group Number: 1255916
SDG: DE198
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-136-SA6-SB-4.0-5.0 Soil	6342209
SL-136-SA6-SB-9.0-10.0 Soil	6342210
SL-139-SA6-SB-4.0-5.0 Soil	6342211
SL-139-SA6-SB-9.0-10.0 Soil	6342212
SL-275-SA6-SB-4.0-5.0 Soil	6342213
SL-275-SA6-SB-9.0-10.0 Soil	6342214
SL-276-SA6-SB-4.0-5.0 Soil	6342215
SL-276-SA6-SB-9.0-10.0 Soil	6342216
TB-071211 Water	6342217
SL-289-SA6-SS-0.0-0.5 Soil	6342218
SL-291-SA6-SS-0.0-0.5 Soil	6342219
SL-098-SA6-SS-0.0-0.5 Soil	6342220
SL-109-SA6-SS-0.0-0.5 Soil	6342221
SL-110-SA6-SS-0.0-0.5 Soil	6342222
SL-113-SA6-SS-0.0-0.5 Soil	6342223
SL-290-SA6-SS-0.0-0.5 Soil	6342224
EB-SA6-SS-071211 Water	6342225

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Chad A. Moline
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-136-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA6-SB-4.0-5.0

LLI Sample # SW 6342209
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:25

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13640 SDG#: DE198-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	11		6.7	8.0		0.91
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.91
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.91
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.91
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.91
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.91
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.91
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.91
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.91
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.91
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.91
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.91
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.91
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.91
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.91
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.91
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.91
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.91
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.91
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.91
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.91
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.91
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.91
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.91
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.91
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.91
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.91
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.91
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.91
06192	Methylene Chloride	75-09-2	5.4		0.24	4.0		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.91

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-136-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA6-SB-4.0-5.0

LLI Sample # SW 6342209
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:25

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13640 SDG#: DE198-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.91
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.91
06192	Toluene	108-88-3	0.13	J	0.08	4.0		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.91
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.91
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.91
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.91
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.91
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.91
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.4
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1

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Sample Description: SL-136-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA6-SB-4.0-5.0

LLI Sample # SW 6342209
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:25

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13640 SDG#: DE198-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1

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Sample Description: SL-136-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA6-SB-4.0-5.0

LLI Sample # SW 6342209
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:25

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13640 SDG#: DE198-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.7
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1

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Sample Description: SL-136-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA6-SB-4.0-5.0

LLI Sample # SW 6342209
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:25

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13640 SDG#: DE198-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.71	J	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,600		6.44	21.3		1
07914	Boron	7440-42-8	5.04	J	0.383	5.32		1
01650	Calcium	7440-70-2	2,070		2.66	21.3		1
01654	Iron	7439-89-6	20,000		2.78	21.3		1
01656	Lithium	7439-93-2	24.1		0.66	2.1		1
01657	Magnesium	7439-95-4	4,460		0.468	10.6		1
06958	Manganese	7439-96-5	265		0.0383	0.532		1
10145	Phosphorus	7723-14-0	166		0.373	10.6		1
01662	Potassium	7440-09-7	1,830		12.0	53.2		1
01667	Sodium	7440-23-5	109		6.33	106		1
07968	Strontium	7440-24-6	19.9		0.0266	0.532		1
06969	Tin	7440-31-5	3.06	J	0.341	10.6		1
06970	Titanium	7440-32-6	1,170		0.0779	1.10		1
10146	Zirconium	7440-67-7	2.72	J	0.490	5.32		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.192	J	0.0780	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	19.6		0.0843	0.422		2
06126	Barium	7440-39-3	98.4		0.112	0.422		2
06127	Beryllium	7440-41-7	0.839		0.0169	0.105		2
06128	Cadmium	7440-43-9	0.0505	J	0.0464	0.105		2
06131	Chromium	7440-47-3	20.4		0.127	0.422		2
06132	Cobalt	7440-48-4	7.09		0.0211	0.105		2
06133	Copper	7440-50-8	5.85		0.0843	0.422		2
06135	Lead	7439-92-1	5.95		0.0108	0.211		2
06138	Molybdenum	7439-98-7	0.843		0.0527	0.105		2
06139	Nickel	7440-02-0	11.8		0.105	0.422		2
06141	Selenium	7782-49-2	0.0830	J	0.0612	0.422		2
06142	Silver	7440-22-4	0.0467	J	0.0150	0.105		2
06145	Thallium	7440-28-0	0.309		0.0316	0.105		2
06148	Vanadium	7440-62-2	41.8		0.0232	0.105		2
06149	Zinc	7440-66-6	49.3		0.590	3.16		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076	U	0.0076	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-136-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA6-SB-4.0-5.0

LLI Sample # SW 6342209
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:25

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13640 SDG#: DE198-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.95	J	0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.0	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.80		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.8		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-136-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111951AA	07/14/2011 18:45	Chelsea B Eastep	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111961AA	07/15/2011 13:09	Jason M Long	22.4
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201119424901	07/13/2011 13:34	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201119424901	07/13/2011 13:49	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201119424901	07/13/2011 13:48	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201119424901	07/13/2011 13:35	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11200SLH026	07/28/2011 22:08	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLJ026	07/21/2011 21:06	Jennifer R Riggs	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLJ026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11200SLH026	07/20/2011 07:35	Joseph S Feister	1

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Sample Description: SL-136-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA6-SB-4.0-5.0

LLI Sample # SW 6342209
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:25

Submitted: 07/13/2011 09:50
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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13640 SDG#: DE198-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11195A34A	07/14/2011 15:22	Laura M Krieger	21.7
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119424901	07/13/2011 13:34	Larry E Bevins	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112010009A	07/22/2011 16:12	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112010009A	07/20/2011 19:00	Sally L Appleyard	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111950018A	07/15/2011 22:27	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111950002A	07/14/2011 14:08	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112010017A	07/21/2011 16:19	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112000028A	07/20/2011 20:16	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112000028A	07/20/2011 09:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112010017A	07/21/2011 06:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111950018A	07/15/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111950002A	07/14/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111955708003	07/22/2011 16:31	John P Hook	1
07914	Boron	SW-846 6010B	1	111955708003	07/22/2011 22:05	John P Hook	1
01650	Calcium	SW-846 6010B	1	111955708003	07/22/2011 16:31	John P Hook	1
01654	Iron	SW-846 6010B	1	111955708003	07/22/2011 16:31	John P Hook	1
01656	Lithium	SW-846 6010B	1	111955708003	07/22/2011 16:31	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111955708003	07/22/2011 16:31	John P Hook	1
06958	Manganese	SW-846 6010B	1	111955708003	07/22/2011 16:31	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111955708003	07/22/2011 16:31	John P Hook	1
01662	Potassium	SW-846 6010B	1	111955708003	07/22/2011 16:31	John P Hook	1
01667	Sodium	SW-846 6010B	1	111955708003	07/22/2011 22:05	John P Hook	1
07968	Strontium	SW-846 6010B	1	111955708003	07/22/2011 16:31	John P Hook	1
06969	Tin	SW-846 6010B	1	111955708003	07/22/2011 16:31	John P Hook	1
06970	Titanium	SW-846 6010B	1	112065708001	07/26/2011 19:35	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111955708003	07/22/2011 16:31	John P Hook	1
06124	Antimony	SW-846 6020	1	111951026001A	07/15/2011 10:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111951026001A	07/15/2011 10:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111951026001D	07/15/2011 10:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111951026001A	07/15/2011 10:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111951026001A	07/15/2011 10:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111951026001A	07/15/2011 10:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111951026001A	07/15/2011 10:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111951026001A	07/15/2011 10:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111951026001A	07/15/2011 10:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111951026001C	07/15/2011 10:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111951026001A	07/15/2011 10:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111951026001B	07/15/2011 10:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111951026001A	07/15/2011 10:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111951026001A	07/15/2011 10:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111951026001A	07/15/2011 10:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111951026001A	07/15/2011 10:54	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-136-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA6-SB-4.0-5.0

LLI Sample # SW 6342209
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:25

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13640 SDG#: DE198-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111955711002	07/16/2011 13:37	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111955708003	07/14/2011 20:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112065708001	07/25/2011 21:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111951026001	07/14/2011 21:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111955711002	07/14/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208621201A	07/30/2011 12:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621201A	07/29/2011 13:35	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11204243201A	07/26/2011 15:14	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11208621201A	07/27/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621201A	07/19/2011 07:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039403A	07/21/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11204243201A	07/23/2011 05:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402A	07/20/2011 20:25	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-136-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA6-SB-9.0-10.0

LLI Sample # SW 6342210
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:35

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13690 SDG#: DE198-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1

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Sample Description: SL-136-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA6-SB-9.0-10.0

LLI Sample # SW 6342210
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:35

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13690 SDG#: DE198-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.2	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
	The following compounds were detected in the method blank at the respective concentrations of: bis(2-ethylhexyl)phthalate 6.3 ug/kg These blank values were not subtracted from the analytical results.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25.41
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1

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Sample Description: SL-136-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA6-SB-9.0-10.0

LLI Sample # SW 6342210
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:35

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13690 SDG#: DE198-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.75	J	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,300		6.53	21.6		1
07914	Boron	7440-42-8	4.26	J	0.388	5.39		1
01650	Calcium	7440-70-2	1,890		2.70	21.6		1
01654	Iron	7439-89-6	20,100		2.81	21.6		1
01656	Lithium	7439-93-2	24.3		0.67	2.2		1
01657	Magnesium	7439-95-4	4,410		0.475	10.8		1
06958	Manganese	7439-96-5	321		0.0388	0.539		1
10145	Phosphorus	7723-14-0	178		0.377	10.8		1
01662	Potassium	7440-09-7	2,470		12.2	53.9		1
01667	Sodium	7440-23-5	102	J	6.42	108		1
07968	Strontium	7440-24-6	18.2		0.0270	0.539		1
06969	Tin	7440-31-5	3.58	J	0.345	10.8		1
06970	Titanium	7440-32-6	1,120		0.0766	1.08		1

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Sample Description: SL-136-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA6-SB-9.0-10.0

LLI Sample # SW 6342210
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:35

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13690 SDG#: DE198-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	3.06	J	0.496	5.39		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.102	J	0.0798	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	18.7		0.0863	0.431		2
06126	Barium	7440-39-3	99.0		0.114	0.431		2
06127	Beryllium	7440-41-7	0.811		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.0517	J	0.0475	0.108		2
06131	Chromium	7440-47-3	19.3		0.129	0.431		2
06132	Cobalt	7440-48-4	7.78		0.0216	0.108		2
06133	Copper	7440-50-8	7.26		0.0863	0.431		2
06135	Lead	7439-92-1	5.79		0.0110	0.216		2
06138	Molybdenum	7439-98-7	0.844		0.0539	0.108		2
06139	Nickel	7440-02-0	12.5		0.108	0.431		2
06141	Selenium	7782-49-2	0.0700	J	0.0626	0.431		2
06142	Silver	7440-22-4	0.0689	J	0.0153	0.108		2
06145	Thallium	7440-28-0	0.288		0.0324	0.108		2
06148	Vanadium	7440-62-2	40.6		0.0237	0.108		2
06149	Zinc	7440-66-6	48.0		0.604	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075	U	0.0075	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.46	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.77		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-136-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA6-SB-9.0-10.0

LLI Sample # SW 6342210
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:35

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13690 SDG#: DE198-02

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-136-SA6-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11200SLH026	07/28/2011 23:23	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLJ026	07/22/2011 01:45	Jennifer R Riggs	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLJ026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11200SLH026	07/20/2011 07:35	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11195A34A	07/14/2011 15:59	Laura M Krieger	25.41
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119424901	07/13/2011 13:32	Larry E Bevins	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112010009A	07/22/2011 17:08	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112010009A	07/20/2011 19:00	Sally L Appleyard	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111960033A	07/16/2011 19:25	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111950002A	07/14/2011 14:21	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112010017A	07/21/2011 18:33	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112000028A	07/20/2011 21:31	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112000028A	07/20/2011 09:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112010017A	07/21/2011 06:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111960033A	07/16/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111950002A	07/14/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111955708003	07/22/2011 16:57	John P Hook	1
07914	Boron	SW-846 6010B	1	111955708003	07/22/2011 22:27	John P Hook	1
01650	Calcium	SW-846 6010B	1	111955708003	07/22/2011 16:57	John P Hook	1
01654	Iron	SW-846 6010B	1	111955708003	07/22/2011 16:57	John P Hook	1
01656	Lithium	SW-846 6010B	1	111955708003	07/22/2011 16:57	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111955708003	07/22/2011 16:57	John P Hook	1
06958	Manganese	SW-846 6010B	1	111955708003	07/22/2011 16:57	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111955708003	07/22/2011 16:57	John P Hook	1
01662	Potassium	SW-846 6010B	1	111955708003	07/22/2011 16:57	John P Hook	1
01667	Sodium	SW-846 6010B	1	111955708003	07/22/2011 22:27	John P Hook	1
07968	Strontium	SW-846 6010B	1	111955708003	07/22/2011 16:57	John P Hook	1
06969	Tin	SW-846 6010B	1	111955708003	07/22/2011 16:57	John P Hook	1
06970	Titanium	SW-846 6010B	1	112065708001	07/26/2011 20:03	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111955708003	07/22/2011 16:57	John P Hook	1
06124	Antimony	SW-846 6020	1	111951026001A	07/15/2011 12:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111951026001A	07/15/2011 12:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111951026001D	07/15/2011 12:10	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-136-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA6-SB-9.0-10.0

LLI Sample # SW 6342210
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:35

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13690 SDG#: DE198-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111951026001A	07/15/2011 12:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111951026001A	07/15/2011 12:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111951026001A	07/15/2011 12:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111951026001A	07/15/2011 12:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111951026001A	07/15/2011 12:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111951026001A	07/15/2011 12:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111951026001C	07/15/2011 12:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111951026001A	07/15/2011 12:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111951026001B	07/15/2011 12:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111951026001A	07/15/2011 12:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111951026001A	07/15/2011 12:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111951026001A	07/15/2011 12:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111951026001A	07/15/2011 12:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111955711002	07/16/2011 13:43	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111955708003	07/14/2011 20:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112065708001	07/25/2011 21:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111951026001	07/14/2011 21:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111955711002	07/14/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208621201A	07/30/2011 13:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621201A	07/29/2011 14:44	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11204243201A	07/26/2011 16:23	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11208621201A	07/27/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621201A	07/19/2011 07:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039403A	07/21/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11204243201A	07/23/2011 05:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402A	07/20/2011 20:25	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-139-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA6-SB-4.0-5.0

LLI Sample # SW 6342211
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:45

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13940 SDG#: DE198-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.6		6.4	7.7		0.87
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.8		0.87
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.8		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.87
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.87
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.7		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.8		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.87
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.8		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.8		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	3.8		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	3.8		0.87
06192	Chloromethane	74-87-3	0.32	U	0.32	3.8		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.8		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.8		0.87
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.87
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.87
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.87
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.8		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.8		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.87
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.87
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.8		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.8		0.87
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.87
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.8		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	3.8		0.87
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.8		0.87
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.8		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.7		0.87
06192	Methylene Chloride	75-09-2	4.2		0.23	3.8		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.87

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Sample Description: SL-139-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA6-SB-4.0-5.0

LLI Sample # SW 6342211
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:45

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13940 SDG#: DE198-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.8		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.87
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.87
06192	Toluene	108-88-3	0.1	J	0.08	3.8		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.8		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.87
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.87
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.8		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.87
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.87
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.87
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.87
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		21.29
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1

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Sample Description: SL-139-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA6-SB-4.0-5.0

LLI Sample # SW 6342211
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:45

Submitted: 07/13/2011 09:50
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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13940 SDG#: DE198-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	9.1	J	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1

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Sample Description: SL-139-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA6-SB-4.0-5.0

LLI Sample # SW 6342211
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:45

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13940 SDG#: DE198-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.7	J	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 7.8 ug/kg
bis(2-ethylhexyl)phthalate 6.3 ug/kg
These blank values were not subtracted from the analytical results.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.11
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1

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Sample Description: SL-139-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA6-SB-4.0-5.0

LLI Sample # SW 6342211
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:45

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13940 SDG#: DE198-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.73	J	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,400		6.64	22.0		1
07914	Boron	7440-42-8	4.92	J	0.395	5.49		1
01650	Calcium	7440-70-2	2,040		2.74	22.0		1
01654	Iron	7439-89-6	18,900		2.86	22.0		1
01656	Lithium	7439-93-2	23.0		0.68	2.2		1
01657	Magnesium	7439-95-4	4,050		0.483	11.0		1
06958	Manganese	7439-96-5	451		0.0395	0.549		1
10145	Phosphorus	7723-14-0	200		0.384	11.0		1
01662	Potassium	7440-09-7	2,230		12.4	54.9		1
01667	Sodium	7440-23-5	106	J	6.53	110		1
07968	Strontium	7440-24-6	19.5		0.0274	0.549		1
06969	Tin	7440-31-5	2.83	J	0.351	11.0		1
06970	Titanium	7440-32-6	1,140		0.0772	1.09		1
10146	Zirconium	7440-67-7	2.61	J	0.505	5.49		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.127	J	0.0797	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	17.9		0.0861	0.431		2
06126	Barium	7440-39-3	126		0.114	0.431		2
06127	Beryllium	7440-41-7	0.921		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.0859	J	0.0474	0.108		2
06131	Chromium	7440-47-3	20.9		0.129	0.431		2
06132	Cobalt	7440-48-4	7.49		0.0215	0.108		2
06133	Copper	7440-50-8	7.37		0.0861	0.431		2
06135	Lead	7439-92-1	6.00		0.0110	0.215		2
06138	Molybdenum	7439-98-7	0.877		0.0538	0.108		2
06139	Nickel	7440-02-0	14.3		0.108	0.431		2
06141	Selenium	7782-49-2	0.0772	J	0.0624	0.431		2
06142	Silver	7440-22-4	0.0658	J	0.0153	0.108		2
06145	Thallium	7440-28-0	0.305		0.0323	0.108		2
06148	Vanadium	7440-62-2	46.0		0.0237	0.108		2
06149	Zinc	7440-66-6	50.3		0.603	3.23		2

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Sample Description: SL-139-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA6-SB-4.0-5.0

LLI Sample # SW 6342211
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:45

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13940 SDG#: DE198-03

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0076 U	0.0076	0.109		1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	2.2	0.87	1.1		1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10 U	10	33.3		1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.58 J	0.22	1.1		1
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.03	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	9.8	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-139-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111951AA	07/14/2011 19:07	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111961AA	07/15/2011 13:29	Jason M Long	21.29
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201119424901	07/13/2011 13:42	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201119424901	07/13/2011 13:48	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201119424901	07/13/2011 13:49	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201119424901	07/13/2011 13:42	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11200SLH026	07/28/2011 23:48	Linda M Hartenstine	1

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Sample Description: SL-139-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA6-SB-4.0-5.0

LLI Sample # SW 6342211
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:45

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13940 SDG#: DE198-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLJ026	07/22/2011 02:16	Jennifer R Riggs	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLJ026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11200SLH026	07/20/2011 07:35	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11195A34A	07/14/2011 16:32	Laura M Krieger	23.11
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119424901	07/13/2011 13:41	Larry E Bevins	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112010009A	07/22/2011 17:26	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112010009A	07/20/2011 19:00	Sally L Appleyard	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111950018A	07/15/2011 23:11	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111950002A	07/14/2011 14:34	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112010017A	07/21/2011 19:17	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112000028A	07/20/2011 21:56	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112000028A	07/20/2011 09:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112010017A	07/21/2011 06:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111950018A	07/15/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111950002A	07/14/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111955708003	07/22/2011 17:09	John P Hook	1
07914	Boron	SW-846 6010B	1	111955708003	07/22/2011 22:38	John P Hook	1
01650	Calcium	SW-846 6010B	1	111955708003	07/22/2011 17:09	John P Hook	1
01654	Iron	SW-846 6010B	1	111955708003	07/22/2011 17:09	John P Hook	1
01656	Lithium	SW-846 6010B	1	111955708003	07/22/2011 17:09	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111955708003	07/22/2011 17:09	John P Hook	1
06958	Manganese	SW-846 6010B	1	111955708003	07/22/2011 17:09	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111955708003	07/22/2011 17:09	John P Hook	1
01662	Potassium	SW-846 6010B	1	111955708003	07/22/2011 17:09	John P Hook	1
01667	Sodium	SW-846 6010B	1	111955708003	07/22/2011 22:38	John P Hook	1
07968	Strontium	SW-846 6010B	1	111955708003	07/22/2011 17:09	John P Hook	1
06969	Tin	SW-846 6010B	1	111955708003	07/22/2011 17:09	John P Hook	1
06970	Titanium	SW-846 6010B	1	112065708001	07/26/2011 20:15	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111955708003	07/22/2011 17:09	John P Hook	1
06124	Antimony	SW-846 6020	1	111951026001A	07/15/2011 11:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111951026001A	07/15/2011 11:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111951026001D	07/15/2011 11:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111951026001A	07/15/2011 11:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111951026001A	07/15/2011 11:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111951026001A	07/15/2011 11:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111951026001A	07/15/2011 11:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111951026001A	07/15/2011 11:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111951026001A	07/15/2011 11:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111951026001C	07/15/2011 11:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111951026001A	07/15/2011 11:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111951026001B	07/15/2011 11:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111951026001A	07/15/2011 11:22	Choon Y Tian	2

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Sample Description: SL-139-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA6-SB-4.0-5.0

LLI Sample # SW 6342211
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:45

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13940 SDG#: DE198-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	111951026001A	07/15/2011 11:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111951026001A	07/15/2011 11:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111951026001A	07/15/2011 11:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111955711002	07/16/2011 13:44	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111955708003	07/14/2011 20:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112065708001	07/25/2011 21:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111951026001	07/14/2011 21:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111955711002	07/14/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208621201A	07/30/2011 13:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621201A	07/29/2011 15:30	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11204243201A	07/26/2011 16:29	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11208621201A	07/27/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621201A	07/19/2011 07:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039403A	07/21/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11204243201A	07/23/2011 05:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402A	07/20/2011 20:25	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-139-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA6-SB-9.0-10.0

LLI Sample # SW 6342212
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:55

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13990 SDG#: DE198-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

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Sample Description: SL-139-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA6-SB-9.0-10.0

LLI Sample # SW 6342212
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:55

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13990 SDG#: DE198-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Tetralin	119-64-2	190	U	190	190		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.02
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1

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Sample Description: SL-139-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA6-SB-9.0-10.0

LLI Sample # SW 6342212
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:55

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13990 SDG#: DE198-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	2.8		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	24		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,400		6.60	21.8		1
07914	Boron	7440-42-8	4.46	J	0.393	5.45		1
01650	Calcium	7440-70-2	1,860		2.73	21.8		1
01654	Iron	7439-89-6	16,700		2.85	21.8		1
01656	Lithium	7439-93-2	19.8		0.68	2.2		1
01657	Magnesium	7439-95-4	3,770		0.480	10.9		1
06958	Manganese	7439-96-5	113		0.0393	0.545		1
10145	Phosphorus	7723-14-0	95.5		0.382	10.9		1
01662	Potassium	7440-09-7	1,140		12.3	54.5		1
01667	Sodium	7440-23-5	277		6.49	109		1
07968	Strontium	7440-24-6	18.9		0.0273	0.545		1
06969	Tin	7440-31-5	2.83	J	0.349	10.9		1
06970	Titanium	7440-32-6	1,070		0.0798	1.12		1
10146	Zirconium	7440-67-7	1.39	J	0.502	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-139-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA6-SB-9.0-10.0

LLI Sample # SW 6342212
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:55

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13990 SDG#: DE198-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.143 J	0.0815	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	17.5	0.0881	0.441		2
06126	Barium	7440-39-3	61.9	0.117	0.441		2
06127	Beryllium	7440-41-7	0.721	0.0176	0.110		2
06128	Cadmium	7440-43-9	0.0485 U	0.0485	0.110		2
06131	Chromium	7440-47-3	22.6	0.132	0.441		2
06132	Cobalt	7440-48-4	3.65	0.0220	0.110		2
06133	Copper	7440-50-8	5.88	0.0881	0.441		2
06135	Lead	7439-92-1	6.16	0.0112	0.220		2
06138	Molybdenum	7439-98-7	0.492	0.0551	0.110		2
06139	Nickel	7440-02-0	8.87	0.110	0.441		2
06141	Selenium	7782-49-2	0.0639 U	0.0639	0.441		2
06142	Silver	7440-22-4	0.0604 J	0.0156	0.110		2
06145	Thallium	7440-28-0	0.251	0.0330	0.110		2
06148	Vanadium	7440-62-2	39.9	0.0242	0.110		2
06149	Zinc	7440-66-6	41.8	0.617	3.30		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0079 U	0.0079	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1	0.90	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.51 J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.32	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-139-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA6-SB-9.0-10.0

LLI Sample # SW 6342212
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:55

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13990 SDG#: DE198-04

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-139-SA6-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11200SLH026	07/29/2011 00:13	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLJ026	07/22/2011 03:55	Jennifer R Riggs	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLJ026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11200SLH026	07/20/2011 07:35	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11195A34A	07/14/2011 17:09	Laura M Krieger	23.02
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119424901	07/13/2011 13:30	Larry E Bevins	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112010009A	07/22/2011 17:45	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112010009A	07/20/2011 19:00	Sally L Appleyard	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111960033A	07/16/2011 19:40	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111950002A	07/14/2011 14:47	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112010017A	07/22/2011 00:30	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112000028A	07/21/2011 00:28	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112000028A	07/20/2011 09:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112010017A	07/21/2011 06:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111960033A	07/16/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111950002A	07/14/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111955708003	07/22/2011 17:13	John P Hook	1
07914	Boron	SW-846 6010B	1	111955708003	07/22/2011 22:42	John P Hook	1
01650	Calcium	SW-846 6010B	1	111955708003	07/22/2011 17:13	John P Hook	1
01654	Iron	SW-846 6010B	1	111955708003	07/22/2011 17:13	John P Hook	1
01656	Lithium	SW-846 6010B	1	111955708003	07/22/2011 17:13	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111955708003	07/22/2011 17:13	John P Hook	1
06958	Manganese	SW-846 6010B	1	111955708003	07/22/2011 17:13	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111955708003	07/22/2011 17:13	John P Hook	1
01662	Potassium	SW-846 6010B	1	111955708003	07/22/2011 17:13	John P Hook	1
01667	Sodium	SW-846 6010B	1	111955708003	07/22/2011 22:42	John P Hook	1
07968	Strontium	SW-846 6010B	1	111955708003	07/22/2011 17:13	John P Hook	1
06969	Tin	SW-846 6010B	1	111955708003	07/22/2011 17:13	John P Hook	1
06970	Titanium	SW-846 6010B	1	112065708001	07/26/2011 20:20	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111955708003	07/22/2011 17:13	John P Hook	1
06124	Antimony	SW-846 6020	1	111951026001A	07/15/2011 11:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111951026001A	07/15/2011 11:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111951026001D	07/15/2011 11:25	Choon Y Tian	2

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Sample Description: SL-139-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA6-SB-9.0-10.0

LLI Sample # SW 6342212
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:55

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13990 SDG#: DE198-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111951026001A	07/15/2011 11:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111951026001A	07/15/2011 11:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111951026001A	07/15/2011 11:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111951026001A	07/15/2011 11:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111951026001A	07/15/2011 11:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111951026001A	07/15/2011 11:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111951026001C	07/15/2011 11:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111951026001A	07/15/2011 11:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111951026001B	07/15/2011 11:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111951026001A	07/15/2011 11:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111951026001A	07/15/2011 11:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111951026001A	07/15/2011 11:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111951026001A	07/15/2011 11:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111955711002	07/16/2011 13:45	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111955708003	07/14/2011 20:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112065708001	07/25/2011 21:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111951026001	07/14/2011 21:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111955711002	07/14/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208621201A	07/30/2011 13:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621201A	07/29/2011 15:53	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11204243201A	07/26/2011 17:00	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11208621201A	07/27/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621201A	07/19/2011 07:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039403A	07/21/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11204243201A	07/23/2011 05:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402A	07/20/2011 20:25	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-275-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA6-SB-4.0-5.0

LLI Sample # SW 6342213
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 11:55

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27540 SDG#: DE198-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	12		7.4	8.9		1.04
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1.04
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1.04
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.4		1.04
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1.04
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1.04
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		1.04
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9		1.04
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1.04
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1.04
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		1.04
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.4		1.04
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1.04
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1.04
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1.04
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1.04
06192	Chloromethane	74-87-3	0.37	U	0.37	4.4		1.04
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.4		1.04
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.4		1.04
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.5		1.04
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.4		1.04
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1.04
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1.04
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4		1.04
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		1.04
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1.04
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		1.04
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1.04
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1.04
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		1.04
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1.04
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1.04
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1.04
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1.04
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1.04
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1.04
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1.04
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		1.04
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1.04
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1.04
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1.04
06192	Freon 133a	75-88-7	0.56	U	0.56	5.5		1.04
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.4		1.04
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		1.04
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		1.04
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1.04
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1.04
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9		1.04
06192	Methylene Chloride	75-09-2	4.1	J	0.27	4.4		1.04
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1.04

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Sample Description: SL-275-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA6-SB-4.0-5.0

LLI Sample # SW 6342213
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 11:55

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27540 SDG#: DE198-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1.04
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1.04
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.4		1.04
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1.04
06192	Toluene	108-88-3	0.09	J	0.09	4.4		1.04
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.4		1.04
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1.04
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1.04
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		1.04
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		1.04
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1.04
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.4		1.04
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1.04
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1.04
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1.04
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1.04
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1.04
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	17		25.67
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1

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Sample Description: SL-275-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA6-SB-4.0-5.0

LLI Sample # SW 6342213
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 11:55

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27540 SDG#: DE198-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1

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Sample Description: SL-275-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA6-SB-4.0-5.0

LLI Sample # SW 6342213
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 11:55

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27540 SDG#: DE198-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.85
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	2.5		0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.59	J	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-275-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA6-SB-4.0-5.0

LLI Sample # SW 6342213
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 11:55

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27540 SDG#: DE198-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	0.58	J	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,400		6.42	21.2		1
07914	Boron	7440-42-8	5.08	J	0.382	5.31		1
01650	Calcium	7440-70-2	1,540		2.65	21.2		1
01654	Iron	7439-89-6	19,000		2.77	21.2		1
01656	Lithium	7439-93-2	22.5		0.66	2.1		1
01657	Magnesium	7439-95-4	3,740		0.467	10.6		1
06958	Manganese	7439-96-5	311		0.0382	0.531		1
10145	Phosphorus	7723-14-0	196		0.371	10.6		1
01662	Potassium	7440-09-7	3,210		12.0	53.1		1
01667	Sodium	7440-23-5	149		6.31	106		1
07968	Strontium	7440-24-6	19.8		0.0265	0.531		1
06969	Tin	7440-31-5	2.76	J	0.340	10.6		1
06970	Titanium	7440-32-6	1,120		0.0746	1.05		1
10146	Zirconium	7440-67-7	3.24	J	0.488	5.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.160	J	0.0770	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.89		0.0832	0.416		2
06126	Barium	7440-39-3	147		0.110	0.416		2
06127	Beryllium	7440-41-7	0.979		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.0783	J	0.0458	0.104		2
06131	Chromium	7440-47-3	21.7		0.125	0.416		2
06132	Cobalt	7440-48-4	8.65		0.0208	0.104		2
06133	Copper	7440-50-8	9.64		0.0832	0.416		2
06135	Lead	7439-92-1	7.65		0.0106	0.208		2
06138	Molybdenum	7439-98-7	1.05		0.0520	0.104		2
06139	Nickel	7440-02-0	15.7		0.104	0.416		2
06141	Selenium	7782-49-2	0.120	J	0.0604	0.416		2
06142	Silver	7440-22-4	0.0584	J	0.0148	0.104		2
06145	Thallium	7440-28-0	0.412		0.0312	0.104		2
06148	Vanadium	7440-62-2	47.2		0.0229	0.104		2
06149	Zinc	7440-66-6	72.8		0.583	3.12		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-275-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA6-SB-4.0-5.0

LLI Sample # SW 6342213
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 11:55

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27540 SDG#: DE198-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.5		1.0	1.3		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.51		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.7		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-275-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111951AA	07/14/2011 19:30	Chelsea B Eastep	1.04
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111961AA	07/15/2011 13:49	Jason M Long	25.67
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201119424901	07/13/2011 13:38	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201119424901	07/13/2011 13:48	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201119424901	07/13/2011 13:48	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201119424901	07/13/2011 13:39	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11200SLH026	07/29/2011 00:37	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLJ026	07/22/2011 04:48	Jennifer R Riggs	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLJ026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11200SLH026	07/20/2011 07:35	Joseph S Feister	1

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Sample Description: SL-275-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA6-SB-4.0-5.0

LLI Sample # SW 6342213
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 11:55

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27540 SDG#: DE198-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11195A34A	07/14/2011 17:45	Laura M Krieger	24.85
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119424901	07/13/2011 13:37	Larry E Bevins	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112010009A	07/22/2011 18:04	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112010009A	07/20/2011 19:00	Sally L Appleyard	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111950018A	07/15/2011 23:26	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111950002A	07/14/2011 15:38	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112010017A	07/21/2011 20:02	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112000028A	07/20/2011 22:22	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112000028A	07/20/2011 09:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112010017A	07/21/2011 06:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111950018A	07/15/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111950002A	07/14/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111955708003	07/22/2011 17:17	John P Hook	1
07914	Boron	SW-846 6010B	1	111955708003	07/22/2011 22:45	John P Hook	1
01650	Calcium	SW-846 6010B	1	111955708003	07/22/2011 17:17	John P Hook	1
01654	Iron	SW-846 6010B	1	111955708003	07/22/2011 17:17	John P Hook	1
01656	Lithium	SW-846 6010B	1	111955708003	07/22/2011 17:17	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111955708003	07/22/2011 17:17	John P Hook	1
06958	Manganese	SW-846 6010B	1	111955708003	07/22/2011 17:17	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111955708003	07/22/2011 17:17	John P Hook	1
01662	Potassium	SW-846 6010B	1	111955708003	07/22/2011 17:17	John P Hook	1
01667	Sodium	SW-846 6010B	1	111955708003	07/22/2011 22:45	John P Hook	1
07968	Strontium	SW-846 6010B	1	111955708003	07/22/2011 17:17	John P Hook	1
06969	Tin	SW-846 6010B	1	111955708003	07/22/2011 17:17	John P Hook	1
06970	Titanium	SW-846 6010B	1	112065708001	07/26/2011 20:24	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111955708003	07/22/2011 17:17	John P Hook	1
06124	Antimony	SW-846 6020	1	111951026001A	07/15/2011 11:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111951026001A	07/15/2011 11:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111951026001D	07/15/2011 11:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111951026001A	07/15/2011 11:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111951026001A	07/15/2011 11:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111951026001A	07/15/2011 11:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111951026001A	07/15/2011 11:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111951026001A	07/15/2011 11:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111951026001A	07/15/2011 11:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111951026001C	07/15/2011 11:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111951026001A	07/15/2011 11:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111951026001B	07/15/2011 11:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111951026001A	07/15/2011 11:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111951026001A	07/15/2011 11:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111951026001A	07/15/2011 11:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111951026001A	07/15/2011 11:28	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-275-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA6-SB-4.0-5.0

LLI Sample # SW 6342213
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 11:55

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27540 SDG#: DE198-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111955711002	07/16/2011 13:46	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111955708003	07/14/2011 20:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112065708001	07/25/2011 21:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111951026001	07/14/2011 21:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111955711002	07/14/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208621201A	07/30/2011 14:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621201A	07/29/2011 16:16	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11204243201A	07/26/2011 17:06	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11208621201A	07/27/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621201A	07/19/2011 07:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039403A	07/21/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11204243201A	07/23/2011 05:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402A	07/20/2011 20:25	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-275-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA6-SB-9.0-10.0

LLI Sample # SW 6342214
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 12:05

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27590 SDG#: DE198-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

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Sample Description: SL-275-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA6-SB-9.0-10.0

LLI Sample # SW 6342214
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 12:05

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27590 SDG#: DE198-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.18
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-275-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA6-SB-9.0-10.0

LLI Sample # SW 6342214
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 12:05

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27590 SDG#: DE198-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.77	J	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,600		6.48	21.4		1
07914	Boron	7440-42-8	4.34	J	0.385	5.35		1
01650	Calcium	7440-70-2	1,480		2.68	21.4		1
01654	Iron	7439-89-6	17,600		2.79	21.4		1
01656	Lithium	7439-93-2	19.3		0.66	2.1		1
01657	Magnesium	7439-95-4	3,430		0.471	10.7		1
06958	Manganese	7439-96-5	184		0.0385	0.535		1
10145	Phosphorus	7723-14-0	126		0.375	10.7		1
01662	Potassium	7440-09-7	2,300		12.1	53.5		1
01667	Sodium	7440-23-5	132		6.37	107		1
07968	Strontium	7440-24-6	19.5		0.0268	0.535		1
06969	Tin	7440-31-5	2.88	J	0.343	10.7		1
06970	Titanium	7440-32-6	1,210		0.0775	1.09		1
10146	Zirconium	7440-67-7	2.70	J	0.492	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-275-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA6-SB-9.0-10.0

LLI Sample # SW 6342214
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 12:05

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27590 SDG#: DE198-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.134 J	0.0808	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.41	0.0873	0.437		2
06126	Barium	7440-39-3	66.6	0.116	0.437		2
06127	Beryllium	7440-41-7	0.853	0.0175	0.109		2
06128	Cadmium	7440-43-9	0.0480 U	0.0480	0.109		2
06131	Chromium	7440-47-3	18.7	0.131	0.437		2
06132	Cobalt	7440-48-4	5.06	0.0218	0.109		2
06133	Copper	7440-50-8	5.71	0.0873	0.437		2
06135	Lead	7439-92-1	5.79	0.0111	0.218		2
06138	Molybdenum	7439-98-7	0.895	0.0546	0.109		2
06139	Nickel	7440-02-0	8.21	0.109	0.437		2
06141	Selenium	7782-49-2	0.0659 J	0.0633	0.437		2
06142	Silver	7440-22-4	0.0461 J	0.0155	0.109		2
06145	Thallium	7440-28-0	0.263	0.0327	0.109		2
06148	Vanadium	7440-62-2	32.3	0.0240	0.109		2
06149	Zinc	7440-66-6	50.8	0.611	3.27		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074 U	0.0074	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5	0.87	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.1		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.80 J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.03	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: SL-275-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA6-SB-9.0-10.0

LLI Sample # SW 6342214
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 12:05

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27590 SDG#: DE198-06

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-275-SA6-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11200SLH026	07/29/2011 01:03	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLJ026	07/22/2011 08:57	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLJ026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11200SLH026	07/20/2011 07:35	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11195A34A	07/14/2011 18:22	Laura M Krieger	24.18
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119424901	07/13/2011 13:31	Larry E Bevins	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112010009A	07/22/2011 18:22	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112010009A	07/20/2011 19:00	Sally L Appleyard	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111960033A	07/16/2011 19:55	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111950002A	07/14/2011 15:51	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112010017A	07/21/2011 20:47	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112000028A	07/20/2011 22:47	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112000028A	07/20/2011 09:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112010017A	07/21/2011 06:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111960033A	07/16/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111950002A	07/14/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111955708003	07/22/2011 17:22	John P Hook	1
07914	Boron	SW-846 6010B	1	111955708003	07/22/2011 22:49	John P Hook	1
01650	Calcium	SW-846 6010B	1	111955708003	07/22/2011 17:22	John P Hook	1
01654	Iron	SW-846 6010B	1	111955708003	07/22/2011 17:22	John P Hook	1
01656	Lithium	SW-846 6010B	1	111955708003	07/22/2011 17:22	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111955708003	07/22/2011 17:22	John P Hook	1
06958	Manganese	SW-846 6010B	1	111955708003	07/22/2011 17:22	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111955708003	07/22/2011 17:22	John P Hook	1
01662	Potassium	SW-846 6010B	1	111955708003	07/22/2011 17:22	John P Hook	1
01667	Sodium	SW-846 6010B	1	111955708003	07/22/2011 22:49	John P Hook	1
07968	Strontium	SW-846 6010B	1	111955708003	07/22/2011 17:22	John P Hook	1
06969	Tin	SW-846 6010B	1	111955708003	07/22/2011 17:22	John P Hook	1
06970	Titanium	SW-846 6010B	1	112065708001	07/26/2011 20:28	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111955708003	07/22/2011 17:22	John P Hook	1
06124	Antimony	SW-846 6020	1	111951026001A	07/15/2011 11:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111951026001A	07/15/2011 11:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111951026001D	07/15/2011 11:31	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-275-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA6-SB-9.0-10.0

LLI Sample # SW 6342214
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 12:05

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27590 SDG#: DE198-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111951026001A	07/15/2011 11:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111951026001A	07/15/2011 11:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111951026001A	07/15/2011 11:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111951026001A	07/15/2011 11:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111951026001A	07/15/2011 11:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111951026001A	07/15/2011 11:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111951026001C	07/15/2011 11:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111951026001A	07/15/2011 11:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111951026001B	07/15/2011 11:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111951026001A	07/15/2011 11:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111951026001A	07/15/2011 11:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111951026001A	07/15/2011 11:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111951026001A	07/15/2011 11:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111955711002	07/16/2011 13:49	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111955708003	07/14/2011 20:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112065708001	07/25/2011 21:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111951026001	07/14/2011 21:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111955711002	07/14/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208621201A	07/30/2011 14:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621201A	07/29/2011 16:39	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11204243201A	07/26/2011 17:19	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11208621201A	07/27/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621201A	07/19/2011 07:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039403A	07/21/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11204243201A	07/23/2011 05:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402B	07/20/2011 20:25	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-276-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA6-SB-4.0-5.0

LLI Sample # SW 6342215
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:25

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27640 SDG#: DE198-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	11		7.1	8.5		0.98
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.98
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.98
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.98
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.98
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.98
06192	Bromomethane	74-83-9	0.27	U	0.27	4.2		0.98
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.98
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.98
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.98
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.98
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.98
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.98
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.98
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.98
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.98
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.98
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.98
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.98
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.98
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.98
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.98
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.98
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.98
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.98
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.98
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.98
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.98
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.98
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.98
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.98
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.98
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.98
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.98
06192	Methylene Chloride	75-09-2	4.0	J	0.25	4.2		0.98
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.98

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Sample Description: SL-276-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA6-SB-4.0-5.0

LLI Sample # SW 6342215
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:25

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27640 SDG#: DE198-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.98
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.98
06192	Toluene	108-88-3	0.09	J	0.08	4.2		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.98
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.98
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.98
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.98
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.98
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.98
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.98
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	181	U	181	361		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1

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Sample Description: SL-276-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA6-SB-4.0-5.0

LLI Sample # SW 6342215
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:25

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27640 SDG#: DE198-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	28	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.0		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.0		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.0		5
10138	Benzo(a)anthracene	56-55-3	4.8	J	3.6	9.0		5

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Sample Description: SL-276-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA6-SB-4.0-5.0

LLI Sample # SW 6342215
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:25

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27640 SDG#: DE198-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(a)pyrene	50-32-8	5.1	J	3.6	9.0		5
10138	Benzo(b)fluoranthene	205-99-2	7.8	J	3.6	9.0		5
10138	Benzo(g,h,i)perylene	191-24-2	6.7	J	3.6	9.0		5
10138	Benzo(k)fluoranthene	207-08-9	3.6	U	3.6	9.0		5
10138	Di-n-butylphthalate	84-74-2	40	J	33	98		5
10138	Chrysene	218-01-9	3.9	J	1.8	9.0		5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	9.0		5
10138	Fluoranthene	206-44-0	5.5	J	3.6	9.0		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.0		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6	U	3.6	9.0		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.0		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.0		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.0		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.0		5
10138	Phenanthrene	85-01-8	3.6	U	3.6	9.0		5
10138	Pyrene	129-00-0	5.2	J	3.6	9.0		5

Reporting limits were raised due to interference from the sample matrix.

Di-n-butylphthalate was detected in the method blank at a concentration of 7.8 ug/kg. The blank value was not subtracted from the analytical result.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.5
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	22		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	12		0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1

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Sample Description: SL-276-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA6-SB-4.0-5.0

LLI Sample # SW 6342215
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:25

Submitted: 07/13/2011 09:50
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27640 SDG#: DE198-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.3	U	4.3	13		10
10199	EFH (C15-C20)	n.a.	9.4	J	4.3	13		10
10199	EFH (C21-C30)	n.a.	130		4.3	13		10
10199	EFH (C30 - C40)	n.a.	290		4.3	13		10
10199	EFH (C8-C11)	n.a.	4.3	U	4.3	13		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		6.43	21.2		1
07914	Boron	7440-42-8	4.82	J	0.382	5.31		1
01650	Calcium	7440-70-2	13,500		2.66	21.2		1
01654	Iron	7439-89-6	18,300		2.77	21.2		1
01656	Lithium	7439-93-2	20.0		0.66	2.1		1
01657	Magnesium	7439-95-4	4,730		0.467	10.6		1
06958	Manganese	7439-96-5	353		0.0382	0.531		1
10145	Phosphorus	7723-14-0	324		0.372	10.6		1
01662	Potassium	7440-09-7	2,570		12.0	53.1		1
01667	Sodium	7440-23-5	199		6.32	106		1
07968	Strontium	7440-24-6	25.8		0.0266	0.531		1
06969	Tin	7440-31-5	2.77	J	0.340	10.6		1
06970	Titanium	7440-32-6	1,140		0.0762	1.07		1
10146	Zirconium	7440-67-7	3.62	J	0.489	5.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.406		0.0786	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.18		0.0850	0.425		2
06126	Barium	7440-39-3	97.9		0.113	0.425		2
06127	Beryllium	7440-41-7	0.644		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.650		0.0467	0.106		2
06131	Chromium	7440-47-3	22.6		0.127	0.425		2
06132	Cobalt	7440-48-4	7.30		0.0212	0.106		2
06133	Copper	7440-50-8	14.0		0.0850	0.425		2
06135	Lead	7439-92-1	10.9		0.0108	0.212		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-276-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA6-SB-4.0-5.0

LLI Sample # SW 6342215
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:25

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27640 SDG#: DE198-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg		mg/kg	mg/kg	mg/kg	
06138	Molybdenum	7439-98-7	0.928		0.0531	0.106		2
06139	Nickel	7440-02-0	14.0		0.106	0.425		2
06141	Selenium	7782-49-2	0.159	J	0.0616	0.425		2
06142	Silver	7440-22-4	0.0350	J	0.0151	0.106		2
06145	Thallium	7440-28-0	0.228		0.0319	0.106		2
06148	Vanadium	7440-62-2	44.1		0.0234	0.106		2
06149	Zinc	7440-66-6	174		0.595	3.19		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0630	J	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.86	1.1		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.5		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.69	J	0.22	1.1		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.70		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	7.7		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-276-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111951AA	07/14/2011 19:52	Chelsea B Eastep	0.98

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-276-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA6-SB-4.0-5.0

LLI Sample # SW 6342215
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:25

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27640 SDG#: DE198-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111961AA	07/15/2011 14:09	Jason M Long	22.98
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201119424901	07/13/2011 13:45	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201119424901	07/13/2011 13:49	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201119424901	07/13/2011 13:48	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201119424901	07/13/2011 13:45	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11201SLB026	07/21/2011 14:45	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11200SLH026	07/29/2011 21:14	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLJ026	07/22/2011 09:29	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11201SLB026	07/20/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLJ026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11200SLH026	07/20/2011 07:35	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11195A34A	07/14/2011 18:58	Laura M Krieger	23.5
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119424901	07/13/2011 13:44	Larry E Bevins	n.a.
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111970007A	07/18/2011 22:27	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112010009A	07/22/2011 18:41	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112010009A	07/20/2011 19:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111970007A	07/17/2011 15:00	Wanda F Oswald	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111950018A	07/15/2011 23:41	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111950002A	07/14/2011 16:04	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112010017A	07/22/2011 02:43	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112000028A	07/21/2011 02:34	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112000028A	07/20/2011 09:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112010017A	07/21/2011 06:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111950018A	07/15/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111950002A	07/14/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111955708003	07/22/2011 17:26	John P Hook	1
07914	Boron	SW-846 6010B	1	111955708003	07/22/2011 22:53	John P Hook	1
01650	Calcium	SW-846 6010B	1	111955708003	07/22/2011 17:26	John P Hook	1
01654	Iron	SW-846 6010B	1	111955708003	07/22/2011 17:26	John P Hook	1
01656	Lithium	SW-846 6010B	1	111955708003	07/22/2011 17:26	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111955708003	07/22/2011 17:26	John P Hook	1
06958	Manganese	SW-846 6010B	1	111955708003	07/22/2011 17:26	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111955708003	07/22/2011 17:26	John P Hook	1
01662	Potassium	SW-846 6010B	1	111955708003	07/22/2011 17:26	John P Hook	1
01667	Sodium	SW-846 6010B	1	111955708003	07/22/2011 22:53	John P Hook	1
07968	Strontium	SW-846 6010B	1	111955708003	07/22/2011 17:26	John P Hook	1
06969	Tin	SW-846 6010B	1	111955708003	07/22/2011 17:26	John P Hook	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-276-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA6-SB-4.0-5.0

LLI Sample # SW 6342215
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:25

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27640 SDG#: DE198-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112065708001	07/26/2011 20:33	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111955708003	07/22/2011 17:26	John P Hook	1
06124	Antimony	SW-846 6020	1	111951026001A	07/15/2011 11:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111951026001A	07/15/2011 11:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111951026001D	07/15/2011 11:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111951026001A	07/15/2011 11:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111951026001A	07/15/2011 11:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111951026001A	07/15/2011 11:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111951026001A	07/15/2011 11:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111951026001A	07/15/2011 11:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111951026001A	07/15/2011 11:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111951026001C	07/15/2011 11:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111951026001A	07/15/2011 11:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111951026001B	07/15/2011 11:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111951026001A	07/15/2011 11:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111951026001A	07/15/2011 11:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111951026001A	07/15/2011 11:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111951026001A	07/15/2011 11:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111955711002	07/16/2011 13:50	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111955708003	07/14/2011 20:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112065708001	07/25/2011 21:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111951026001	07/14/2011 21:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111955711002	07/14/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208621201A	07/30/2011 14:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621201A	07/29/2011 17:02	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11204243201A	07/26/2011 17:37	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11208621201A	07/27/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621201A	07/19/2011 07:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039403A	07/21/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11204243201A	07/23/2011 05:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402B	07/20/2011 20:25	Scott W Freisher	1

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Analysis Report

Sample Description: SL-276-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA6-SB-9.0-10.0

LLI Sample # SW 6342216
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:35

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27690 SDG#: DE198-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.1	U	18.1	36.2		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-276-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA6-SB-9.0-10.0

LLI Sample # SW 6342216
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:35

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27690 SDG#: DE198-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	8.9	J	6.5	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.6	J	6.5	20		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate 7.8 ug/kg bis(2-ethylhexyl)phthalate 6.3 ug/kg These blank values were not subtracted from the analytical results.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25.77

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-276-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA6-SB-9.0-10.0

LLI Sample # SW 6342216
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:35

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27690 SDG#: DE198-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	0.59	J	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,100		6.44	21.3		1
07914	Boron	7440-42-8	3.53	J	0.383	5.32		1
01650	Calcium	7440-70-2	1,940		2.66	21.3		1
01654	Iron	7439-89-6	17,700		2.78	21.3		1
01656	Lithium	7439-93-2	21.4		0.66	2.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-276-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA6-SB-9.0-10.0

LLI Sample # SW 6342216
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:35

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27690 SDG#: DE198-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	3,890		0.468	10.6		1
06958	Manganese	7439-96-5	175		0.0383	0.532		1
10145	Phosphorus	7723-14-0	338		0.373	10.6		1
01662	Potassium	7440-09-7	1,820		12.0	53.2		1
01667	Sodium	7440-23-5	118		6.33	106		1
07968	Strontium	7440-24-6	16.5		0.0266	0.532		1
06969	Tin	7440-31-5	2.60	J	0.341	10.6		1
06970	Titanium	7440-32-6	1,050		0.0741	1.04		1
10146	Zirconium	7440-67-7	2.40	J	0.490	5.32		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0797	J	0.0796	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.60		0.0860	0.430		2
06126	Barium	7440-39-3	72.7		0.114	0.430		2
06127	Beryllium	7440-41-7	0.517		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.0473	U	0.0473	0.108		2
06131	Chromium	7440-47-3	15.4		0.129	0.430		2
06132	Cobalt	7440-48-4	3.87		0.0215	0.108		2
06133	Copper	7440-50-8	6.18		0.0860	0.430		2
06135	Lead	7439-92-1	4.05		0.0110	0.215		2
06138	Molybdenum	7439-98-7	0.427		0.0538	0.108		2
06139	Nickel	7440-02-0	9.17		0.108	0.430		2
06141	Selenium	7782-49-2	0.0624	U	0.0624	0.430		2
06142	Silver	7440-22-4	0.0209	J	0.0153	0.108		2
06145	Thallium	7440-28-0	0.224		0.0323	0.108		2
06148	Vanadium	7440-62-2	32.9		0.0237	0.108		2
06149	Zinc	7440-66-6	37.7		0.602	3.23		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.05		0.0100	0.0100		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-276-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA6-SB-9.0-10.0

LLI Sample # SW 6342216
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:35

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27690 SDG#: DE198-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	7.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-276-SA6-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11201SLB026	07/21/2011 15:44	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11200SLH026	07/29/2011 21:39	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLJ026	07/22/2011 10:01	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11201SLB026	07/20/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLJ026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11200SLH026	07/20/2011 07:35	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11195A34A	07/14/2011 19:34	Laura M Krieger	25.77
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119424901	07/13/2011 13:31	Larry E Bevins	n.a.
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111970007A	07/18/2011 22:56	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112010009A	07/22/2011 18:59	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112010009A	07/20/2011 19:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111970007A	07/17/2011 15:00	Wanda F Oswald	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111950018A	07/15/2011 23:56	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111950002A	07/14/2011 16:16	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112010017A	07/21/2011 21:31	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112000028A	07/20/2011 23:12	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112000028A	07/20/2011 09:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112010017A	07/21/2011 06:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111950018A	07/15/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111950002A	07/14/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111955708003	07/22/2011 17:30	John P Hook	1

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Sample Description: SL-276-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA6-SB-9.0-10.0

LLI Sample # SW 6342216
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:35

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27690 SDG#: DE198-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	111955708003	07/22/2011 22:56	John P Hook	1
01650	Calcium	SW-846 6010B	1	111955708003	07/22/2011 17:30	John P Hook	1
01654	Iron	SW-846 6010B	1	111955708003	07/22/2011 17:30	John P Hook	1
01656	Lithium	SW-846 6010B	1	111955708003	07/22/2011 17:30	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111955708003	07/22/2011 17:30	John P Hook	1
06958	Manganese	SW-846 6010B	1	111955708003	07/22/2011 17:30	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111955708003	07/22/2011 17:30	John P Hook	1
01662	Potassium	SW-846 6010B	1	111955708003	07/22/2011 17:30	John P Hook	1
01667	Sodium	SW-846 6010B	1	111955708003	07/22/2011 22:56	John P Hook	1
07968	Strontium	SW-846 6010B	1	111955708003	07/22/2011 17:30	John P Hook	1
06969	Tin	SW-846 6010B	1	111955708003	07/22/2011 17:30	John P Hook	1
06970	Titanium	SW-846 6010B	1	112065708001	07/26/2011 20:37	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111955708003	07/22/2011 17:30	John P Hook	1
06124	Antimony	SW-846 6020	1	111951026001A	07/15/2011 12:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111951026001A	07/15/2011 12:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111951026001D	07/15/2011 12:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111951026001A	07/15/2011 12:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111951026001A	07/15/2011 12:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111951026001A	07/15/2011 12:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111951026001A	07/15/2011 12:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111951026001A	07/15/2011 12:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111951026001A	07/15/2011 12:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111951026001C	07/15/2011 12:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111951026001A	07/15/2011 12:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111951026001B	07/15/2011 12:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111951026001A	07/15/2011 12:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111951026001A	07/15/2011 12:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111951026001A	07/15/2011 12:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111951026001A	07/15/2011 12:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111955711002	07/16/2011 13:52	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111955708003	07/14/2011 20:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112065708001	07/25/2011 21:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111951026001	07/14/2011 21:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111955711002	07/14/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208621201A	07/30/2011 14:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621201A	07/29/2011 17:25	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11204243201A	07/26/2011 17:44	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11208621201A	07/27/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621201A	07/19/2011 07:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039403A	07/21/2011 22:10	Luz M Groff	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-276-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA6-SB-9.0-10.0

LLI Sample # SW 6342216
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:35

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

27690 SDG#: DE198-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11204243201A	07/23/2011 05:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402B	07/20/2011 20:25	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-071211 Water
SSFL Area IV Collocated Soil Sampling
TB-071211

LLI Sample # WW 6342217
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:00

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

7TB12 SDG#: DE198-09TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-071211 Water
SSFL Area IV Collocated Soil Sampling
TB-071211

LLI Sample # WW 6342217
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:00

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

7TB12 SDG#: DE198-09TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111961AA	07/15/2011	12:43	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111951AA	07/14/2011	11:09	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111951AA	07/14/2011	11:09	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y111961AA	07/15/2011	12:43	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11195C20A	07/15/2011	17:22	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	11195C20A	07/15/2011	17:22	Catherine J Schwarz	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-289-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-289-SA6-SS-0.0-0.5

LLI Sample # SW 6342218
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:50

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

28900 SDG#: DE198-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: SL-289-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-289-SA6-SS-0.0-0.5

LLI Sample # SW 6342218
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:50

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

28900 SDG#: DE198-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.68	U	0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	8.9	J	6.1	18		1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.7	J	6.1	18		1
10138	Fluoranthene	206-44-0	0.68	U	0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7		1
10138	Pyrene	129-00-0	0.68	U	0.68	1.7		1
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate 7.8 ug/kg bis(2-ethylhexyl)phthalate 6.3 ug/kg These blank values were not subtracted from the analytical results.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	0.63	U	0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1

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Sample Description: SL-289-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-289-SA6-SS-0.0-0.5

LLI Sample # SW 6342218
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:50

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

28900 SDG#: DE198-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The LCS recovery for dinoseb is outside the QC limits of 10-36% at 7%. Since dinoseb does not recover well with this method and the recovery is within our in-house statistical limits of 0-32%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.047	J	0.035	0.17		1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.067	U	0.067	0.35		1
01363	p,p-DDT	50-29-3	0.12	J	0.067	0.35		1
01363	Delta BHC	319-86-8	0.058	J	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.35		1
01363	Endrin Ketone	53494-70-5	0.22	U	0.22	0.35		1
01363	Heptachlor	76-44-8	0.20		0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.075	J	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised for endrin aldehyde and endrin ketone due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.3	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.84	J	0.34	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-289-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-289-SA6-SS-0.0-0.5

LLI Sample # SW 6342218
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:50

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

28900 SDG#: DE198-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	0.96	J	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	6.8		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	13		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,700		6.11	20.2		1
07914	Boron	7440-42-8	4.77	J	0.363	5.05		1
01650	Calcium	7440-70-2	5,510		2.52	20.2		1
01654	Iron	7439-89-6	15,100		2.63	20.2		1
01656	Lithium	7439-93-2	7.1		0.63	2.0		1
01657	Magnesium	7439-95-4	3,410		0.444	10.1		1
06958	Manganese	7439-96-5	187		0.0363	0.505		1
10145	Phosphorus	7723-14-0	1,150		0.353	10.1		1
01662	Potassium	7440-09-7	2,030		11.4	50.5		1
01667	Sodium	7440-23-5	91.7	J	6.01	101		1
07968	Strontium	7440-24-6	33.0		0.0252	0.505		1
06969	Tin	7440-31-5	1.90	J	0.323	10.1		1
06970	Titanium	7440-32-6	630		0.0717	1.01		1
10146	Zirconium	7440-67-7	2.54	J	0.464	5.05		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.310		0.0732	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.86		0.0792	0.396		2
06126	Barium	7440-39-3	108		0.105	0.396		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-289-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-289-SA6-SS-0.0-0.5

LLI Sample # SW 6342218
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:50

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

28900 SDG#: DE198-10

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium		7440-41-7	0.322	0.0158	0.0990		2
06128	Cadmium		7440-43-9	0.342	0.0435	0.0990		2
06131	Chromium		7440-47-3	22.0	0.119	0.396		2
06132	Cobalt		7440-48-4	7.04	0.0198	0.0990		2
06133	Copper		7440-50-8	13.4	0.0792	0.396		2
06135	Lead		7439-92-1	2.92	0.0101	0.198		2
06138	Molybdenum		7439-98-7	0.635	0.0495	0.0990		2
06139	Nickel		7440-02-0	13.4	0.0990	0.396		2
06141	Selenium		7782-49-2	0.0762 J	0.0574	0.396		2
06142	Silver		7440-22-4	0.0141 U	0.0141	0.0990		2
06145	Thallium		7440-28-0	0.111	0.0297	0.0990		2
06148	Vanadium		7440-62-2	55.7	0.0218	0.0990		2
06149	Zinc		7440-66-6	42.3	0.554	2.97		2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0205 J	0.0070	0.100		1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	1.8	0.83	1.0		1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.2 U	9.2	30.6		1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.20 U	0.20	1.0		1
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.32	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	1.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-289-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-289-SA6-SS-0.0-0.5

LLI Sample # SW 6342218
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:50

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

28900 SDG#: DE198-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11200SLH026	07/29/2011 22:04	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLJ026	07/22/2011 10:33	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLJ026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11200SLH026	07/20/2011 07:35	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111950013A	07/16/2011 02:20	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111970013A	08/11/2011 12:21	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112010009A	07/22/2011 19:18	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111970013A	07/18/2011 10:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112010009A	07/20/2011 19:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111950013A	07/14/2011 20:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111950018A	07/16/2011 00:10	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111950002A	07/14/2011 16:29	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112010017A	07/21/2011 23:00	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112000028A	07/20/2011 23:37	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112000028A	07/20/2011 09:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112010017A	07/21/2011 06:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111950018A	07/15/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111950002A	07/14/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111955708003	07/22/2011 17:34	John P Hook	1
07914	Boron	SW-846 6010B	1	111955708003	07/22/2011 23:00	John P Hook	1
01650	Calcium	SW-846 6010B	1	111955708003	07/22/2011 17:34	John P Hook	1
01654	Iron	SW-846 6010B	1	111955708003	07/22/2011 17:34	John P Hook	1
01656	Lithium	SW-846 6010B	1	111955708003	07/22/2011 17:34	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111955708003	07/22/2011 17:34	John P Hook	1
06958	Manganese	SW-846 6010B	1	111955708003	07/22/2011 17:34	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111955708003	07/22/2011 17:34	John P Hook	1
01662	Potassium	SW-846 6010B	1	111955708003	07/22/2011 17:34	John P Hook	1
01667	Sodium	SW-846 6010B	1	111955708003	07/22/2011 23:00	John P Hook	1
07968	Strontium	SW-846 6010B	1	111955708003	07/22/2011 17:34	John P Hook	1
06969	Tin	SW-846 6010B	1	111955708003	07/22/2011 17:34	John P Hook	1
06970	Titanium	SW-846 6010B	1	112065708001	07/26/2011 20:42	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111955708003	07/22/2011 17:34	John P Hook	1
06124	Antimony	SW-846 6020	1	111951026001A	07/15/2011 11:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111951026001A	07/15/2011 11:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111951026001D	07/15/2011 11:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111951026001A	07/15/2011 11:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111951026001A	07/15/2011 11:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111951026001A	07/15/2011 11:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111951026001A	07/15/2011 11:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111951026001A	07/15/2011 11:40	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-289-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-289-SA6-SS-0.0-0.5

LLI Sample # SW 6342218
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:50

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

28900 SDG#: DE198-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	111951026001A	07/15/2011 11:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111951026001C	07/15/2011 11:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111951026001A	07/15/2011 11:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111951026001B	07/15/2011 11:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111951026001A	07/15/2011 11:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111951026001A	07/15/2011 11:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111951026001A	07/15/2011 11:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111951026001A	07/15/2011 11:40	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111955711002	07/16/2011 13:53	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111955708003	07/14/2011 20:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112065708001	07/25/2011 21:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111951026001	07/14/2011 21:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111955711002	07/14/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208621201A	07/30/2011 15:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621201A	07/29/2011 17:48	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11204243201A	07/26/2011 17:56	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11208621201A	07/27/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621201A	07/19/2011 07:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039403B	07/21/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11204243201A	07/23/2011 05:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402B	07/20/2011 20:25	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-291-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-291-SA6-SS-0.0-0.5

LLI Sample # SW 6342219
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:29

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29100 SDG#: DE198-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	740		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	450		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	370		17	170		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	21	J	17	170		1
04688	Carbazole	86-74-8	100	J	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Chrysene	218-01-9	790		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	120	J	17	170		1
04688	Dibenzofuran	132-64-9	32	J	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	420		17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-291-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-291-SA6-SS-0.0-0.5

LLI Sample # SW 6342219
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:29

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29100 SDG#: DE198-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	150		6.7	17		10
10138	Acenaphthylene	208-96-8	5.8	J	3.4	17		10
10138	Anthracene	120-12-7	230		3.4	17		10
10138	Benzo(a)pyrene	50-32-8	750		6.7	17		10
10138	Benzo(b)fluoranthene	205-99-2	1,100		6.7	17		10
10138	Di-n-butylphthalate	84-74-2	100	J	61	180		10
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	280		61	180		10
10138	Fluoranthene	206-44-0	1,900		6.7	17		10
10138	Fluorene	86-73-7	81		6.7	17		10
10138	1-Methylnaphthalene	90-12-0	11	J	6.7	17		10
10138	2-Methylnaphthalene	91-57-6	9.9	J	6.7	17		10
10138	Naphthalene	91-20-3	10	J	6.7	17		10
10138	N-Nitrosodimethylamine	62-75-9	6.7	U	6.7	17		10
10138	Phenanthrene	85-01-8	1,200		6.7	17		10
10138	Pyrene	129-00-0	1,500		6.7	17		10

Reporting limits were raised due to interference from the sample matrix.

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 7.8 ug/kg
bis(2-ethylhexyl)phthalate 6.3 ug/kg
These blank values were not subtracted from the analytical results.

The recovery of benzo(b)fluoranthene was above QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-291-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-291-SA6-SS-0.0-0.5

LLI Sample # SW 6342219
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:29

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29100 SDG#: DE198-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	7.3	U	7.3	7.3		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	180	U	180	250		1
10401	MCPP (Mecoprop)	93-65-2	590		76	250		1
10401	2,4,5-T	93-76-5	0.33	U	0.33	0.33		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

The LCS recovery for dinoseb is outside the QC limits of 10-36% at 7%. Since dinoseb does not recover well with this method and the recovery is within our in-house statistical limits of 0-32%, the data is reported
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	3.3	U	3.3	8.4		50
01363	Alpha BHC	319-84-6	1.7	U	1.7	8.4		50
01363	Beta BHC	319-85-7	3.0	U	3.0	8.4		50
01363	Gamma BHC - Lindane	58-89-9	1.7	U	1.7	8.4		50
01363	Chlordane	57-74-9	95	J	40	170		50
01363	p,p-DDD	72-54-8	6.7	U	6.7	17		50
01363	p,p-DDE	72-55-9	54		3.3	17		50
01363	p,p-DDT	50-29-3	21	J	6.7	34		100
01363	Delta BHC	319-86-8	1.8	U	1.8	8.4		50
01363	Dieldrin	60-57-1	26	U	26	26		50
01363	Endosulfan I	959-98-8	2.2	U	2.2	8.4		50
01363	Endosulfan II	33213-65-9	18		3.3	17		50
01363	Endosulfan Sulfate	1031-07-8	3.3	U	3.3	17		50
01363	Endrin	72-20-8	13	U	13	17		50
01363	Endrin Aldehyde	7421-93-4	14	J	3.3	17		50
01363	Endrin Ketone	53494-70-5	3.3	U	3.3	17		50
01363	Heptachlor	76-44-8	3.0	U	3.0	8.4		50
01363	Heptachlor Epoxide	1024-57-3	12	U	12	12		50
01363	Methoxychlor	72-43-5	17	U	17	84		50
01363	Mirex	2385-85-5	9.6	U	9.6	17		50
01363	Toxaphene	8001-35-2	110	U	110	330		50

The sample followed a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	100	U	100	330		100
10225	Aroclor 5442	12642-23-8	100	U	100	330		100
10225	Aroclor 5460	11126-42-4	490		100	330		100
10225	PCB-1016	12674-11-2	33	U	33	170		100
10225	PCB-1221	11104-28-2	33	U	33	170		100
10225	PCB-1232	11141-16-5	33	U	33	170		100
10225	PCB-1242	53469-21-9	33	U	33	170		100

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-291-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-291-SA6-SS-0.0-0.5

LLI Sample # SW 6342219
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:29

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29100 SDG#: DE198-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	33	U	33	170		100
10225	PCB-1254	11097-69-1	280		33	170		100
10225	PCB-1260	11096-82-5	39	U	39	170		100
10225	PCB-1262	37324-23-5	33	U	33	170		100
10225	PCB-1268	11100-14-4	33	U	33	170		100
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	J	100	500		1
10501	Methanol	67-56-1	180	J	100	500		1

The sample was analyzed and had a detection for methanol and isopropanol. The sample was injected on the confirmation channel yielding non-detect for all target compounds; however, the surrogate recovery was outside method limits. The sample was reextracted and reanalyzed outside the client requested hold time yielding a detection for methanol on the primary channel and a detection for ethanol on the confirmation channel. The in hold data is reported.

GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.0	U	4.0	12		10
10199	EFH (C15-C20)	n.a.	9.8	J	4.0	12		10
10199	EFH (C21-C30)	n.a.	120		4.0	12		10
10199	EFH (C30 - C40)	n.a.	350		4.0	12		10
10199	EFH (C8-C11)	n.a.	4.0	U	4.0	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,900		5.93	19.6		1
07914	Boron	7440-42-8	9.13		0.353	4.90		1
01650	Calcium	7440-70-2	4,710		2.45	19.6		1
01654	Iron	7439-89-6	22,200		2.56	19.6		1
01656	Lithium	7439-93-2	20.0		0.61	2.0		1
01657	Magnesium	7439-95-4	4,300		0.431	9.80		1
06958	Manganese	7439-96-5	302		0.0353	0.490		1
10145	Phosphorus	7723-14-0	490		0.343	9.80		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-291-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-291-SA6-SS-0.0-0.5

LLI Sample # SW 6342219
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:29

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29100 SDG#: DE198-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	3,320		11.1	49.0		1
01667	Sodium	7440-23-5	227		5.83	98.0		1
07968	Strontium	7440-24-6	31.2		0.0245	0.490		1
06969	Tin	7440-31-5	3.48	J	0.314	9.80		1
06970	Titanium	7440-32-6	997		0.0689	0.971		1
10146	Zirconium	7440-67-7	2.88	J	0.451	4.90		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	3.22		0.0718	0.194		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.5		0.0776	0.388		2
06126	Barium	7440-39-3	111		0.103	0.388		2
06127	Beryllium	7440-41-7	0.524		0.0155	0.0971		2
06128	Cadmium	7440-43-9	2.05		0.0427	0.0971		2
06131	Chromium	7440-47-3	27.7		0.116	0.388		2
06132	Cobalt	7440-48-4	16.3		0.0194	0.0971		2
06133	Copper	7440-50-8	76.1		0.0776	0.388		2
06135	Lead	7439-92-1	62.5		0.0099	0.194		2
06138	Molybdenum	7439-98-7	23.2		0.0485	0.0971		2
06139	Nickel	7440-02-0	18.8		0.0971	0.388		2
06141	Selenium	7782-49-2	0.777		0.0563	0.388		2
06142	Silver	7440-22-4	0.213		0.0138	0.0971		2
06145	Thallium	7440-28-0	0.257		0.0291	0.0971		2
06148	Vanadium	7440-62-2	45.9		0.0214	0.0971		2
06149	Zinc	7440-66-6	756		2.72	14.6		10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.246		0.0070	0.0992		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.79	0.99		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.17		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.93		0.50	0.50		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-291-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-291-SA6-SS-0.0-0.5

LLI Sample # SW 6342219
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:29

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29100 SDG#: DE198-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11200SLH026	07/29/2011 22:29	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLJ026	07/22/2011 11:05	Joseph M Gambler	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLJ026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11200SLH026	07/20/2011 07:35	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111950013A	07/16/2011 02:48	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111970013A	07/29/2011 09:07	Melissa McDermott	50
01363	12a Pesticides by 8081A	SW-846 8081A	1	111970013A	08/09/2011 18:32	Melissa McDermott	100
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112010009A	07/25/2011 18:39	Sarah M Snyder	100
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111970013A	07/18/2011 10:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112010009A	07/20/2011 19:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111950013A	07/14/2011 20:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111950018A	07/16/2011 00:25	Tracy A Cole	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111950002A	07/14/2011 16:42	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112010017A	07/22/2011 03:28	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112000028A	07/21/2011 02:59	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112000028A	07/20/2011 09:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112010017A	07/21/2011 06:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111950018A	07/15/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111950002A	07/14/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111955708003	07/22/2011 17:39	John P Hook	1
07914	Boron	SW-846 6010B	1	111955708003	07/22/2011 23:04	John P Hook	1
01650	Calcium	SW-846 6010B	1	111955708003	07/22/2011 17:39	John P Hook	1
01654	Iron	SW-846 6010B	1	111955708003	07/22/2011 17:39	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-291-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-291-SA6-SS-0.0-0.5

LLI Sample # SW 6342219
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:29

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29100 SDG#: DE198-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	111955708003	07/22/2011 17:39	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111955708003	07/22/2011 17:39	John P Hook	1
06958	Manganese	SW-846 6010B	1	111955708003	07/22/2011 17:39	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111955708003	07/22/2011 17:39	John P Hook	1
01662	Potassium	SW-846 6010B	1	111955708003	07/22/2011 17:39	John P Hook	1
01667	Sodium	SW-846 6010B	1	111955708003	07/22/2011 23:04	John P Hook	1
07968	Strontium	SW-846 6010B	1	111955708003	07/22/2011 17:39	John P Hook	1
06969	Tin	SW-846 6010B	1	111955708003	07/22/2011 17:39	John P Hook	1
06970	Titanium	SW-846 6010B	1	112065708001	07/26/2011 20:46	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111955708003	07/22/2011 17:39	John P Hook	1
06124	Antimony	SW-846 6020	1	111951026001A	07/15/2011 11:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111951026001A	07/15/2011 11:43	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111951026001D	07/15/2011 11:43	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111951026001A	07/15/2011 11:43	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111951026001A	07/15/2011 11:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111951026001A	07/15/2011 11:43	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111951026001A	07/15/2011 11:43	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111951026001A	07/15/2011 11:43	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111951026001A	07/15/2011 11:43	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111951026001C	07/15/2011 11:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111951026001A	07/15/2011 11:43	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111951026001B	07/15/2011 11:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111951026001A	07/15/2011 11:43	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111951026001A	07/15/2011 11:43	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111951026001A	07/15/2011 11:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111951026001A	07/22/2011 15:42	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	111955711002	07/16/2011 13:55	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111955708003	07/14/2011 20:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112065708001	07/25/2011 21:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111951026001	07/14/2011 21:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111955711002	07/14/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208621201A	07/30/2011 15:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621201A	07/29/2011 18:11	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11204243201A	07/26/2011 18:09	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11208621201A	07/27/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621201A	07/19/2011 07:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039403B	07/21/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11204243201A	07/23/2011 05:45	Daniel S Smith	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-291-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-291-SA6-SS-0.0-0.5

LLI Sample # SW 6342219
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:29

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29100 SDG#: DE198-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402B	07/20/2011 20:25	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-098-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SS-0.0-0.5

LLI Sample # SW 6342220
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:42

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

09800 SDG#: DE198-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-098-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SS-0.0-0.5

LLI Sample # SW 6342220
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:42

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

09800 SDG#: DE198-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	6.8	U	6.8	17		10
10138	Acenaphthylene	208-96-8	3.4	U	3.4	17		10
10138	Anthracene	120-12-7	3.4	U	3.4	17		10
10138	Benzo(a)anthracene	56-55-3	6.8	U	6.8	17		10
10138	Benzo(a)pyrene	50-32-8	6.8	U	6.8	17		10
10138	Benzo(b)fluoranthene	205-99-2	12	J	6.8	17		10
10138	Benzo(g,h,i)perylene	191-24-2	8.7	J	6.8	17		10
10138	Benzo(k)fluoranthene	207-08-9	6.8	U	6.8	17		10
10138	Di-n-butylphthalate	84-74-2	67	J	61	180		10
10138	Chrysene	218-01-9	7.2	J	3.4	17		10
10138	Dibenz(a,h)anthracene	53-70-3	6.8	U	6.8	17		10
10138	Fluoranthene	206-44-0	13	J	6.8	17		10
10138	Fluorene	86-73-7	6.8	U	6.8	17		10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.8	U	6.8	17		10
10138	1-Methylnaphthalene	90-12-0	6.8	U	6.8	17		10
10138	2-Methylnaphthalene	91-57-6	6.8	U	6.8	17		10
10138	Naphthalene	91-20-3	6.8	U	6.8	17		10
10138	N-Nitrosodimethylamine	62-75-9	6.8	U	6.8	17		10
10138	Phenanthrene	85-01-8	6.8	U	6.8	17		10
10138	Pyrene	129-00-0	11	J	6.8	17		10
	Reporting limits were raised due to interference from the sample matrix.							
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate 7.8 ug/kg These blank values were not subtracted from the analytical results.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	1.3	U	1.3	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1

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Sample Description: SL-098-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SS-0.0-0.5

LLI Sample # SW 6342220
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:42

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

09800 SDG#: DE198-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	MCPA	94-74-6	350		77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.25	U	0.25	0.25		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

The LCS recovery for dinoseb is outside the QC limits of 10-36% at 7%. Since dinoseb does not recover well with this method and the recovery is within our in-house statistical limits of 0-32%, the data is reported
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.17		1
01363	Chlordane	57-74-9	3.6	U	3.6	3.6		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.15	U	0.15	0.35		1
01363	p,p-DDT	50-29-3	1.2		0.067	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.12	U	0.12	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.12	U	0.12	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.15	U	0.15	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.063	U	0.063	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.73		0.067	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

The sample followed a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised for gamma-BHC, heptachlor epoxide, 4,4-DDE, endrin,endosulfan II, chlordane, and endrin aldehyde due to interference from the sample
matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	2.3		0.34	1.7		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-098-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SS-0.0-0.5

LLI Sample # SW 6342220
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:42

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

09800 SDG#: DE198-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C15-C20)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C21-C30)	n.a.	22		2.0	6.1		5
10199	EFH (C30 - C40)	n.a.	86		2.0	6.1		5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.1		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,100		5.92	19.6		1
07914	Boron	7440-42-8	4.28	J	0.352	4.89		1
01650	Calcium	7440-70-2	3,870		2.45	19.6		1
01654	Iron	7439-89-6	16,200		2.55	19.6		1
01656	Lithium	7439-93-2	15.0		0.61	2.0		1
01657	Magnesium	7439-95-4	3,890		0.430	9.78		1
06958	Manganese	7439-96-5	254		0.0352	0.489		1
10145	Phosphorus	7723-14-0	759		0.342	9.78		1
01662	Potassium	7440-09-7	2,600		11.1	48.9		1
01667	Sodium	7440-23-5	80.3	J	5.82	97.8		1
07968	Strontium	7440-24-6	22.7		0.0245	0.489		1
06969	Tin	7440-31-5	2.18	J	0.313	9.78		1
06970	Titanium	7440-32-6	899		0.0722	1.02		1
10146	Zirconium	7440-67-7	2.41	J	0.450	4.89		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.244		0.0745	0.201		2

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Sample Description: SL-098-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SS-0.0-0.5

LLI Sample # SW 6342220
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:42

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

09800 SDG#: DE198-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.22		0.0806	0.403		2
06126	Barium	7440-39-3	88.2		0.107	0.403		2
06127	Beryllium	7440-41-7	0.415		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.224		0.0443	0.101		2
06131	Chromium	7440-47-3	18.9		0.121	0.403		2
06132	Cobalt	7440-48-4	6.54		0.0201	0.101		2
06133	Copper	7440-50-8	10.5		0.0806	0.403		2
06135	Lead	7439-92-1	6.10		0.0103	0.201		2
06138	Molybdenum	7439-98-7	0.568		0.0504	0.101		2
06139	Nickel	7440-02-0	12.0		0.101	0.403		2
06141	Selenium	7782-49-2	0.107	J	0.0584	0.403		2
06142	Silver	7440-22-4	0.0280	J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.167		0.0302	0.101		2
06148	Vanadium	7440-62-2	42.9		0.0222	0.101		2
06149	Zinc	7440-66-6	50.7		0.564	3.02		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0212	J	0.0067	0.0949		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.53	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.14		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-098-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SS-0.0-0.5

LLI Sample # SW 6342220
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:42

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

09800 SDG#: DE198-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11200SLH026	07/29/2011 22:53	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLJ026	07/22/2011 11:37	Joseph M Gambler	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLJ026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11200SLH026	07/20/2011 07:35	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111950013A	07/16/2011 03:15	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111970013A	08/09/2011 18:03	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112010009A	07/22/2011 19:55	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111970013A	07/18/2011 10:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112010009A	07/20/2011 19:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111950013A	07/14/2011 20:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111950018A	07/16/2011 00:40	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111950002A	07/14/2011 16:55	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112010017A	07/22/2011 01:14	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112000028A	07/21/2011 02:08	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112000028A	07/20/2011 09:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112010017A	07/21/2011 06:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111950018A	07/15/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111950002A	07/14/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111955708003	07/22/2011 17:43	John P Hook	1
07914	Boron	SW-846 6010B	1	111955708003	07/22/2011 23:07	John P Hook	1
01650	Calcium	SW-846 6010B	1	111955708003	07/22/2011 17:43	John P Hook	1
01654	Iron	SW-846 6010B	1	111955708003	07/22/2011 17:43	John P Hook	1
01656	Lithium	SW-846 6010B	1	111955708003	07/22/2011 17:43	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111955708003	07/22/2011 17:43	John P Hook	1
06958	Manganese	SW-846 6010B	1	111955708003	07/22/2011 17:43	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111955708003	07/22/2011 17:43	John P Hook	1
01662	Potassium	SW-846 6010B	1	111955708003	07/22/2011 17:43	John P Hook	1
01667	Sodium	SW-846 6010B	1	111955708003	07/22/2011 23:07	John P Hook	1
07968	Strontium	SW-846 6010B	1	111955708003	07/22/2011 17:43	John P Hook	1
06969	Tin	SW-846 6010B	1	111955708003	07/22/2011 17:43	John P Hook	1
06970	Titanium	SW-846 6010B	1	112065708001	07/26/2011 20:50	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111955708003	07/22/2011 17:43	John P Hook	1
06124	Antimony	SW-846 6020	1	111951026001A	07/15/2011 11:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111951026001A	07/15/2011 11:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111951026001D	07/15/2011 11:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111951026001A	07/15/2011 11:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111951026001A	07/15/2011 11:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111951026001A	07/15/2011 11:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111951026001A	07/15/2011 11:46	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-098-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SS-0.0-0.5

LLI Sample # SW 6342220
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:42

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

09800 SDG#: DE198-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111951026001A	07/15/2011 11:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111951026001A	07/15/2011 11:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111951026001C	07/15/2011 11:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111951026001A	07/15/2011 11:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111951026001B	07/15/2011 11:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111951026001A	07/15/2011 11:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111951026001A	07/15/2011 11:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111951026001A	07/15/2011 11:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111951026001A	07/15/2011 11:46	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111955711002	07/16/2011 13:56	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111955708003	07/14/2011 20:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112065708001	07/25/2011 21:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111951026001	07/14/2011 21:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111955711002	07/14/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208621201B	07/30/2011 15:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621201B	07/29/2011 18:34	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11204243201A	07/26/2011 18:21	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11208621201B	07/27/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621201B	07/19/2011 07:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039403B	07/21/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11204243201A	07/23/2011 05:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402B	07/20/2011 20:25	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-109-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA6-SS-0.0-0.5

LLI Sample # SW 6342221
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:43

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10900 SDG#: DE198-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	840	U	840	2,500		1
04688	Benzidine	92-87-5	5,900	U	5,900	17,000		1
04688	Benzo(g,h,i)perylene	191-24-2	90	J	84	840		1
04688	Benzoic acid	65-85-0	840	U	840	2,500		1
04688	Benzyl alcohol	100-51-6	840	U	840	2,500		1
04688	4-Bromophenyl-phenylether	101-55-3	84	U	84	840		1
04688	Butylbenzylphthalate	85-68-7	84	U	84	840		1
04688	Di-n-butylphthalate	84-74-2	84	U	84	840		1
04688	Carbazole	86-74-8	84	U	84	840		1
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	840		1
04688	4-Chloroaniline	106-47-8	340	U	340	840		1
04688	bis(2-Chloroethoxy)methane	111-91-1	84	U	84	840		1
04688	bis(2-Chloroethyl)ether	111-44-4	84	U	84	840		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	84	U	84	840		1
04688	2-Chloronaphthalene	91-58-7	84	U	84	840		1
04688	2-Chlorophenol	95-57-8	84	U	84	840		1
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	840		1
04688	Dibenzofuran	132-64-9	84	U	84	840		1
04688	1,2-Dichlorobenzene	95-50-1	84	U	84	840		1
04688	1,3-Dichlorobenzene	541-73-1	84	U	84	840		1
04688	1,4-Dichlorobenzene	106-46-7	84	U	84	840		1
04688	3,3'-Dichlorobenzidine	91-94-1	500	U	500	1,700		1
04688	2,4-Dichlorophenol	120-83-2	84	U	84	840		1
04688	Diethylphthalate	84-66-2	84	U	84	840		1
04688	2,4-Dimethylphenol	105-67-9	170	U	170	840		1
04688	3,5-Dimethylphenol	108-68-9	170	U	170	840		1
04688	Dimethylphthalate	131-11-3	84	U	84	840		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	840	U	840	2,500		1
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,000		1
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	840		1
04688	2,6-Dinitrotoluene	606-20-2	84	U	84	840		1
04688	1,2-Diphenylhydrazine	122-66-7	84	U	84	840		1
04688	Hexachlorobenzene	118-74-1	84	U	84	840		1
04688	Hexachlorobutadiene	87-68-3	340	U	340	840		1
04688	Hexachlorocyclopentadiene	77-47-4	840	U	840	2,500		1
04688	Hexachloroethane	67-72-1	84	U	84	840		1
04688	Isophorone	78-59-1	84	U	84	840		1
04688	2-Methylphenol	95-48-7	170	U	170	840		1
04688	4-Methylphenol	106-44-5	170	U	170	840		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	84	U	84	840		1
04688	3-Nitroaniline	99-09-2	170	U	170	840		1
04688	4-Nitroaniline	100-01-6	340	U	340	840		1
04688	Nitrobenzene	98-95-3	84	U	84	840		1
04688	2-Nitrophenol	88-75-5	84	U	84	840		1
04688	4-Nitrophenol	100-02-7	840	U	840	2,500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	84	U	84	840		1
04688	N-Nitrosodiphenylamine	86-30-6	84	U	84	840		1

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Sample Description: SL-109-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA6-SS-0.0-0.5

LLI Sample # SW 6342221
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:43

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10900 SDG#: DE198-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	84	U	84	840		1
04688	Pentachlorophenol	87-86-5	840	U	840	2,500		1
04688	Phenol	108-95-2	84	U	84	840		1
04688	Tetralin	119-64-2	840	U	840	840		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	84	U	84	840		1
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	840		1
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	840		1
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	34	U	34	85		10
10138	Acenaphthylene	208-96-8	17	U	17	85		10
10138	Anthracene	120-12-7	17	U	17	85		10
10138	Benzo(a)anthracene	56-55-3	34	U	34	85		10
10138	Benzo(a)pyrene	50-32-8	34	U	34	85		10
10138	Benzo(b)fluoranthene	205-99-2	34	U	34	85		10
10138	Benzo(k)fluoranthene	207-08-9	34	U	34	85		10
10138	Chrysene	218-01-9	22	J	17	85		10
10138	Dibenz(a,h)anthracene	53-70-3	34	U	34	85		10
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	390	J	310	920		10
10138	Fluoranthene	206-44-0	34	U	34	85		10
10138	Fluorene	86-73-7	34	U	34	85		10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	34	U	34	85		10
10138	1-Methylnaphthalene	90-12-0	34	U	34	85		10
10138	2-Methylnaphthalene	91-57-6	34	U	34	85		10
10138	Naphthalene	91-20-3	34	U	34	85		10
10138	N-Nitrosodimethylamine	62-75-9	34	U	34	85		10
10138	Phenanthrene	85-01-8	34	U	34	85		10
10138	Pyrene	129-00-0	34	U	34	85		10
	Reporting limits were raised due to interference from the sample matrix.							
	The following compounds were detected in the method blank at the respective concentrations of:							
	bis(2-ethylhexyl)phthalate 6.3 ug/kg							
	These blank values were not subtracted from the analytical results.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	3.8		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1

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Sample Description: SL-109-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA6-SS-0.0-0.5

LLI Sample # SW 6342221
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:43

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10900 SDG#: DE198-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	MCPA	94-74-6	140	U	140	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.23		0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1

The LCS recovery for dinoseb is outside the QC limits of 10-36% at 7%. Since dinoseb does not recover well with this method and the recovery is within our in-house statistical limits of 0-32%, the data is reported
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	1.3	U	1.3	3.4		20
01363	Alpha BHC	319-84-6	0.70	U	0.70	3.4		20
01363	Beta BHC	319-85-7	1.2	U	1.2	3.4		20
01363	Gamma BHC - Lindane	58-89-9	0.86	J	0.70	3.4		20
01363	Chlordane	57-74-9	150		16	70		20
01363	p,p-DDD	72-54-8	1.3	U	1.3	7.0		20
01363	p,p-DDE	72-55-9	3.5	U	3.5	7.0		20
01363	p,p-DDT	50-29-3	9.1	U	9.1	9.1		20
01363	Delta BHC	319-86-8	0.74	U	0.74	3.4		20
01363	Dieldrin	60-57-1	1.3	U	1.3	7.0		20
01363	Endosulfan I	959-98-8	0.90	U	0.90	3.4		20
01363	Endosulfan II	33213-65-9	1.3	U	1.3	7.0		20
01363	Endosulfan Sulfate	1031-07-8	1.3	U	1.3	7.0		20
01363	Endrin	72-20-8	1.5	U	1.5	7.0		20
01363	Endrin Aldehyde	7421-93-4	1.3	U	1.3	7.0		20
01363	Endrin Ketone	53494-70-5	1.3	U	1.3	7.0		20
01363	Heptachlor	76-44-8	6.8		1.2	3.4		20
01363	Heptachlor Epoxide	1024-57-3	9.4	U	9.4	9.4		20
01363	Methoxychlor	72-43-5	7.0	U	7.0	34		20
01363	Mirex	2385-85-5	3.8	J	1.3	7.0		20
01363	Toxaphene	8001-35-2	45	U	45	130		20

The sample followed a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	200	U	200	670		200
10225	Aroclor 5442	12642-23-8	200	U	200	670		200
10225	Aroclor 5460	11126-42-4	200	U	200	670		200
10225	PCB-1016	12674-11-2	67	U	67	350		200
10225	PCB-1221	11104-28-2	67	U	67	350		200
10225	PCB-1232	11141-16-5	67	U	67	350		200
10225	PCB-1242	53469-21-9	67	U	67	350		200
10225	PCB-1248	12672-29-6	660		67	350		200
10225	PCB-1254	11097-69-1	67	U	67	350		200
10225	PCB-1260	11096-82-5	80	U	80	350		200
10225	PCB-1262	37324-23-5	67	U	67	350		200
10225	PCB-1268	11100-14-4	67	U	67	350		200

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Sample Description: SL-109-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA6-SS-0.0-0.5

LLI Sample # SW 6342221
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:43

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10900 SDG#: DE198-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	41	U	41	120		20
10199	EFH (C15-C20)	n.a.	90	J	41	120		20
10199	EFH (C21-C30)	n.a.	1,400		41	120		20
10199	EFH (C30 - C40)	n.a.	3,600		41	120		20
10199	EFH (C8-C11)	n.a.	41	U	41	120		20
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,600		5.95	19.7		1
07914	Boron	7440-42-8	5.17		0.354	4.92		1
01650	Calcium	7440-70-2	4,680		2.46	19.7		1
01654	Iron	7439-89-6	23,200		2.57	19.7		1
01656	Lithium	7439-93-2	21.3		0.61	2.0		1
01657	Magnesium	7439-95-4	4,230		0.433	9.83		1
06958	Manganese	7439-96-5	264		0.0354	0.492		1
10145	Phosphorus	7723-14-0	280		0.344	9.83		1
01662	Potassium	7440-09-7	3,160		11.1	49.2		1
01667	Sodium	7440-23-5	138		5.85	98.3		1
07968	Strontium	7440-24-6	20.3		0.0246	0.492		1
06969	Tin	7440-31-5	3.28	J	0.315	9.83		1
06970	Titanium	7440-32-6	1,060		0.0698	0.983		1
10146	Zirconium	7440-67-7	2.92	J	0.452	4.92		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.399		0.0735	0.199		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-109-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA6-SS-0.0-0.5

LLI Sample # SW 6342221
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:43

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10900 SDG#: DE198-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	8.89		0.0794	0.397		2
06126	Barium	7440-39-3	155		0.105	0.397		2
06127	Beryllium	7440-41-7	0.862		0.0159	0.0993		2
06128	Cadmium	7440-43-9	0.937		0.0437	0.0993		2
06131	Chromium	7440-47-3	32.3		0.119	0.397		2
06132	Cobalt	7440-48-4	12.3		0.0199	0.0993		2
06133	Copper	7440-50-8	20.9		0.0794	0.397		2
06135	Lead	7439-92-1	19.8		0.0101	0.199		2
06138	Molybdenum	7439-98-7	0.992		0.0496	0.0993		2
06139	Nickel	7440-02-0	29.5		0.0993	0.397		2
06141	Selenium	7782-49-2	0.166	J	0.0576	0.397		2
06142	Silver	7440-22-4	0.0455	J	0.0141	0.0993		2
06145	Thallium	7440-28-0	0.395		0.0298	0.0993		2
06148	Vanadium	7440-62-2	91.2		0.0218	0.0993		2
06149	Zinc	7440-66-6	398		2.78	14.9		10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069	U	0.0069	0.0984		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.15		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-109-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA6-SS-0.0-0.5

LLI Sample # SW 6342221
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:43

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10900 SDG#: DE198-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11200SLH026	07/29/2011 23:18	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLJ026	07/22/2011 12:09	Joseph M Gambler	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLJ026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11200SLH026	07/20/2011 07:35	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111950013A	07/16/2011 04:37	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111970013A	08/09/2011 19:28	Melissa McDermott	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112010009A	07/25/2011 18:57	Sarah M Snyder	200
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111970013A	07/18/2011 10:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112010009A	07/20/2011 19:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111950013A	07/14/2011 20:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111950018A	07/16/2011 00:55	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111950002A	07/14/2011 17:08	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112010017A	07/22/2011 06:26	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112000028A	07/21/2011 03:24	Heather E Williams	20
11238	EFH Extraction - Soils	SW-846 3550B	1	112000028A	07/20/2011 09:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112010017A	07/21/2011 06:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111950018A	07/15/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111950002A	07/14/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111955708003	07/22/2011 17:47	John P Hook	1
07914	Boron	SW-846 6010B	1	111955708003	07/22/2011 23:11	John P Hook	1
01650	Calcium	SW-846 6010B	1	111955708003	07/22/2011 17:47	John P Hook	1
01654	Iron	SW-846 6010B	1	111955708003	07/22/2011 17:47	John P Hook	1
01656	Lithium	SW-846 6010B	1	111955708003	07/22/2011 17:47	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111955708003	07/22/2011 17:47	John P Hook	1
06958	Manganese	SW-846 6010B	1	111955708003	07/22/2011 17:47	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111955708003	07/22/2011 17:47	John P Hook	1
01662	Potassium	SW-846 6010B	1	111955708003	07/22/2011 17:47	John P Hook	1
01667	Sodium	SW-846 6010B	1	111955708003	07/22/2011 23:11	John P Hook	1
07968	Strontium	SW-846 6010B	1	111955708003	07/22/2011 17:47	John P Hook	1
06969	Tin	SW-846 6010B	1	111955708003	07/22/2011 17:47	John P Hook	1
06970	Titanium	SW-846 6010B	1	112065708001	07/26/2011 20:54	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111955708003	07/22/2011 17:47	John P Hook	1
06124	Antimony	SW-846 6020	1	111951026001A	07/15/2011 11:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111951026001A	07/15/2011 11:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111951026001D	07/15/2011 11:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111951026001A	07/15/2011 11:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111951026001A	07/15/2011 11:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111951026001A	07/15/2011 11:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111951026001A	07/15/2011 11:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111951026001A	07/15/2011 11:55	Choon Y Tian	2

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Analysis Report

Sample Description: SL-109-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA6-SS-0.0-0.5

LLI Sample # SW 6342221
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:43

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10900 SDG#: DE198-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	111951026001A	07/15/2011 11:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111951026001C	07/15/2011 11:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111951026001A	07/15/2011 11:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111951026001B	07/15/2011 11:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111951026001A	07/15/2011 11:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111951026001A	07/15/2011 11:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111951026001A	07/15/2011 11:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111951026001A	07/22/2011 15:43	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	111955711002	07/16/2011 13:57	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111955708003	07/14/2011 20:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112065708001	07/25/2011 21:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111951026001	07/14/2011 21:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111955711002	07/14/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208621201B	07/30/2011 16:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621201B	07/29/2011 20:07	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11204243201A	07/26/2011 18:33	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11208621201B	07/27/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621201B	07/19/2011 07:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039403B	07/21/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11204243201A	07/23/2011 05:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402B	07/20/2011 20:25	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-110-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA6-SS-0.0-0.5

LLI Sample # SW 6342222
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 10:20

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11000 SDG#: DE198-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	840	U	840	2,500		1
04688	Benzidine	92-87-5	5,900	U	5,900	17,000		1
04688	Benzo(g,h,i)perylene	191-24-2	91	J	84	840		1
04688	Benzoic acid	65-85-0	840	U	840	2,500		1
04688	Benzyl alcohol	100-51-6	840	U	840	2,500		1
04688	4-Bromophenyl-phenylether	101-55-3	84	U	84	840		1
04688	Butylbenzylphthalate	85-68-7	84	U	84	840		1
04688	Di-n-butylphthalate	84-74-2	84	U	84	840		1
04688	Carbazole	86-74-8	84	U	84	840		1
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	840		1
04688	4-Chloroaniline	106-47-8	340	U	340	840		1
04688	bis(2-Chloroethoxy)methane	111-91-1	84	U	84	840		1
04688	bis(2-Chloroethyl)ether	111-44-4	84	U	84	840		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	84	U	84	840		1
04688	2-Chloronaphthalene	91-58-7	84	U	84	840		1
04688	2-Chlorophenol	95-57-8	84	U	84	840		1
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	840		1
04688	Dibenzofuran	132-64-9	84	U	84	840		1
04688	1,2-Dichlorobenzene	95-50-1	84	U	84	840		1
04688	1,3-Dichlorobenzene	541-73-1	84	U	84	840		1
04688	1,4-Dichlorobenzene	106-46-7	84	U	84	840		1
04688	3,3'-Dichlorobenzidine	91-94-1	510	U	510	1,700		1
04688	2,4-Dichlorophenol	120-83-2	84	U	84	840		1
04688	Diethylphthalate	84-66-2	84	U	84	840		1
04688	2,4-Dimethylphenol	105-67-9	170	U	170	840		1
04688	3,5-Dimethylphenol	108-68-9	170	U	170	840		1
04688	Dimethylphthalate	131-11-3	84	U	84	840		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	840	U	840	2,500		1
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,100		1
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	840		1
04688	2,6-Dinitrotoluene	606-20-2	84	U	84	840		1
04688	1,2-Diphenylhydrazine	122-66-7	84	U	84	840		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	190	J	84	1,700		1
04688	Hexachlorobenzene	118-74-1	84	U	84	840		1
04688	Hexachlorobutadiene	87-68-3	340	U	340	840		1
04688	Hexachlorocyclopentadiene	77-47-4	840	U	840	2,500		1
04688	Hexachloroethane	67-72-1	84	U	84	840		1
04688	Isophorone	78-59-1	84	U	84	840		1
04688	2-Methylphenol	95-48-7	170	U	170	840		1
04688	4-Methylphenol	106-44-5	170	U	170	840		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	84	U	84	840		1
04688	3-Nitroaniline	99-09-2	170	U	170	840		1
04688	4-Nitroaniline	100-01-6	340	U	340	840		1
04688	Nitrobenzene	98-95-3	84	U	84	840		1
04688	2-Nitrophenol	88-75-5	84	U	84	840		1
04688	4-Nitrophenol	100-02-7	840	U	840	2,500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	84	U	84	840		1

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Sample Description: SL-110-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA6-SS-0.0-0.5

LLI Sample # SW 6342222
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 10:20

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11000 SDG#: DE198-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	N-Nitrosodiphenylamine	86-30-6	84	U	84	840		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	84	U	84	840		1
04688	Pentachlorophenol	87-86-5	840	U	840	2,500		1
04688	Phenol	108-95-2	84	U	84	840		1
04688	Tetralin	119-64-2	840	U	840	840		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	84	U	84	840		1
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	840		1
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	840		1
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	34	U	34	85		10
10138	Acenaphthylene	208-96-8	17	U	17	85		10
10138	Anthracene	120-12-7	17	U	17	85		10
10138	Benzo(a)anthracene	56-55-3	34	U	34	85		10
10138	Benzo(a)pyrene	50-32-8	34	U	34	85		10
10138	Benzo(b)fluoranthene	205-99-2	34	U	34	85		10
10138	Benzo(k)fluoranthene	207-08-9	34	U	34	85		10
10138	Chrysene	218-01-9	17	U	17	85		10
10138	Dibenz(a,h)anthracene	53-70-3	34	U	34	85		10
10138	Fluoranthene	206-44-0	34	U	34	85		10
10138	Fluorene	86-73-7	34	U	34	85		10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	34	U	34	85		10
10138	1-Methylnaphthalene	90-12-0	34	U	34	85		10
10138	2-Methylnaphthalene	91-57-6	34	U	34	85		10
10138	Naphthalene	91-20-3	34	U	34	85		10
10138	N-Nitrosodimethylamine	62-75-9	34	U	34	85		10
10138	Phenanthrene	85-01-8	34	U	34	85		10
10138	Pyrene	129-00-0	34	U	34	85		10
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	7.1		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	310		77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The LCS recovery for dinoseb is outside the QC limits of 10-36% at 7%. Since							

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Sample Description: SL-110-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA6-SS-0.0-0.5

LLI Sample # SW 6342222
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 10:20

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11000 SDG#: DE198-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	dinoseb does not recover well with this method and the recovery is within our in-house statistical limits of 0-32%, the data is reported							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.67	U	0.67	1.7		10
01363	Alpha BHC	319-84-6	0.35	U	0.35	1.7		10
01363	Beta BHC	319-85-7	0.61	U	0.61	1.7		10
01363	Gamma BHC - Lindane	58-89-9	0.35	U	0.35	1.7		10
01363	Chlordane	57-74-9	8.1	U	8.1	35		10
01363	p,p-DDD	72-54-8	0.67	U	0.67	3.5		10
01363	p,p-DDE	72-55-9	2.0	U	2.0	3.5		10
01363	p,p-DDT	50-29-3	4.9	U	4.9	4.9		10
01363	Delta BHC	319-86-8	0.37	U	0.37	1.7		10
01363	Dieldrin	60-57-1	0.67	U	0.67	3.5		10
01363	Endosulfan I	959-98-8	0.45	U	0.45	1.7		10
01363	Endosulfan II	33213-65-9	1.2	U	1.2	3.5		10
01363	Endosulfan Sulfate	1031-07-8	0.67	U	0.67	3.5		10
01363	Endrin	72-20-8	0.67	U	0.67	3.5		10
01363	Endrin Aldehyde	7421-93-4	0.67	U	0.67	3.5		10
01363	Endrin Ketone	53494-70-5	0.67	U	0.67	3.5		10
01363	Heptachlor	76-44-8	0.61	U	0.61	1.7		10
01363	Heptachlor Epoxide	1024-57-3	0.63	U	0.63	1.7		10
01363	Methoxychlor	72-43-5	3.5	U	3.5	17		10
01363	Mirex	2385-85-5	1.3	U	1.3	3.5		10
01363	Toxaphene	8001-35-2	22	U	22	67		10
	The sample followed a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	10	U	10	34		10
10225	Aroclor 5442	12642-23-8	10	U	10	34		10
10225	Aroclor 5460	11126-42-4	10	U	10	34		10
10225	PCB-1016	12674-11-2	3.4	U	3.4	17		10
10225	PCB-1221	11104-28-2	3.4	U	3.4	17		10
10225	PCB-1232	11141-16-5	3.4	U	3.4	17		10
10225	PCB-1242	53469-21-9	3.4	U	3.4	17		10
10225	PCB-1248	12672-29-6	3.4	U	3.4	17		10
10225	PCB-1254	11097-69-1	21		3.4	17		10
10225	PCB-1260	11096-82-5	4.0	U	4.0	17		10
10225	PCB-1262	37324-23-5	3.4	U	3.4	17		10
10225	PCB-1268	11100-14-4	3.4	U	3.4	17		10
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-110-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA6-SS-0.0-0.5

LLI Sample # SW 6342222
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 10:20

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11000 SDG#: DE198-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	41	U	41	120		20
10199	EFH (C15-C20)	n.a.	81	J	41	120		20
10199	EFH (C21-C30)	n.a.	1,100		41	120		20
10199	EFH (C30 - C40)	n.a.	2,800		41	120		20
10199	EFH (C8-C11)	n.a.	41	U	41	120		20
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,300		5.92	19.6		1
07914	Boron	7440-42-8	4.45	J	0.352	4.90		1
01650	Calcium	7440-70-2	2,380		2.45	19.6		1
01654	Iron	7439-89-6	19,800		2.56	19.6		1
01656	Lithium	7439-93-2	19.4		0.61	2.0		1
01657	Magnesium	7439-95-4	3,650		0.431	9.79		1
06958	Manganese	7439-96-5	240		0.0352	0.490		1
10145	Phosphorus	7723-14-0	296		0.343	9.79		1
01662	Potassium	7440-09-7	2,650		11.1	49.0		1
01667	Sodium	7440-23-5	98.1		5.83	97.9		1
07968	Strontium	7440-24-6	11.9		0.0245	0.490		1
06969	Tin	7440-31-5	2.63	J	0.313	9.79		1
06970	Titanium	7440-32-6	1,050		0.0702	0.989		1
10146	Zirconium	7440-67-7	1.44	J	0.450	4.90		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.133	J	0.0754	0.204		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.31		0.0815	0.407		2
06126	Barium	7440-39-3	93.6		0.108	0.407		2
06127	Beryllium	7440-41-7	0.673		0.0163	0.102		2
06128	Cadmium	7440-43-9	2.03		0.0448	0.102		2
06131	Chromium	7440-47-3	21.8		0.122	0.407		2
06132	Cobalt	7440-48-4	9.03		0.0204	0.102		2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-110-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA6-SS-0.0-0.5

LLI Sample # SW 6342222
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 10:20

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11000 SDG#: DE198-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06133	Copper	7440-50-8	13.0		0.0815	0.407		2
06135	Lead	7439-92-1	15.6		0.0104	0.204		2
06138	Molybdenum	7439-98-7	0.517		0.0509	0.102		2
06139	Nickel	7440-02-0	17.6		0.102	0.407		2
06141	Selenium	7782-49-2	0.192	J	0.0591	0.407		2
06142	Silver	7440-22-4	0.0718	J	0.0145	0.102		2
06145	Thallium	7440-28-0	0.315		0.0305	0.102		2
06148	Vanadium	7440-62-2	49.9		0.0224	0.102		2
06149	Zinc	7440-66-6	558		2.85	15.3		10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0788	J	0.0068	0.0962		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.86	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.73		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.8		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11200SLH026	07/29/2011 23:44	Jennifer R Riggs	1

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Sample Description: SL-110-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA6-SS-0.0-0.5

LLI Sample # SW 6342222
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 10:20

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11000 SDG#: DE198-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLJ026	07/22/2011 12:42	Joseph M Gambler	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLJ026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11200SLH026	07/20/2011 07:35	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111950013A	07/16/2011 05:05	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111970013A	07/29/2011 08:20	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112010009A	07/22/2011 20:32	Sarah M Snyder	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111970013A	07/18/2011 10:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112010009A	07/20/2011 19:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111950013A	07/14/2011 20:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111950018A	07/16/2011 01:09	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111950002A	07/14/2011 17:59	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112010017A	07/22/2011 08:39	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112000028A	07/21/2011 03:49	Heather E Williams	20
11238	EFH Extraction - Soils	SW-846 3550B	1	112000028A	07/20/2011 09:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112010017A	07/21/2011 06:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111950018A	07/15/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111950002A	07/14/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111955708003	07/22/2011 17:59	John P Hook	1
07914	Boron	SW-846 6010B	1	111955708003	07/22/2011 23:22	John P Hook	1
01650	Calcium	SW-846 6010B	1	111955708003	07/22/2011 17:59	John P Hook	1
01654	Iron	SW-846 6010B	1	111955708003	07/22/2011 17:59	John P Hook	1
01656	Lithium	SW-846 6010B	1	111955708003	07/22/2011 17:59	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111955708003	07/22/2011 17:59	John P Hook	1
06958	Manganese	SW-846 6010B	1	111955708003	07/22/2011 17:59	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111955708003	07/22/2011 17:59	John P Hook	1
01662	Potassium	SW-846 6010B	1	111955708003	07/22/2011 17:59	John P Hook	1
01667	Sodium	SW-846 6010B	1	111955708003	07/22/2011 23:22	John P Hook	1
07968	Strontium	SW-846 6010B	1	111955708003	07/22/2011 17:59	John P Hook	1
06969	Tin	SW-846 6010B	1	111955708003	07/22/2011 17:59	John P Hook	1
06970	Titanium	SW-846 6010B	1	112065708001	07/26/2011 21:06	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111955708003	07/22/2011 17:59	John P Hook	1
06124	Antimony	SW-846 6020	1	111951026001A	07/15/2011 11:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111951026001A	07/15/2011 11:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111951026001D	07/15/2011 11:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111951026001A	07/15/2011 11:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111951026001A	07/15/2011 11:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111951026001A	07/15/2011 11:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111951026001A	07/15/2011 11:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111951026001A	07/15/2011 11:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111951026001A	07/15/2011 11:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111951026001C	07/15/2011 11:58	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
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Sample Description: SL-110-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA6-SS-0.0-0.5

LLI Sample # SW 6342222
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 10:20

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11000 SDG#: DE198-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06139	Nickel	SW-846 6020	1	111951026001A	07/15/2011 11:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111951026001B	07/15/2011 11:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111951026001A	07/15/2011 11:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111951026001A	07/15/2011 11:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111951026001A	07/15/2011 11:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111951026001A	07/22/2011 15:45	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	111955711002	07/16/2011 13:58	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111955708003	07/14/2011 20:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112065708001	07/25/2011 21:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111951026001	07/14/2011 21:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111955711002	07/14/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208621201B	07/30/2011 17:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621201B	07/29/2011 20:30	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11204243201A	07/26/2011 18:46	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11208621201B	07/27/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621201B	07/19/2011 07:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039403B	07/21/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11204243201A	07/23/2011 05:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402B	07/20/2011 20:25	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-113-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA6-SS-0.0-0.5

LLI Sample # SW 6342223
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 12:08

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11300 SDG#: DE198-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	870	U	870	2,600		1
04688	Benzidine	92-87-5	6,100	U	6,100	17,000		1
04688	Benzoic acid	65-85-0	870	U	870	2,600		1
04688	Benzyl alcohol	100-51-6	870	U	870	2,600		1
04688	4-Bromophenyl-phenylether	101-55-3	87	U	87	870		1
04688	Butylbenzylphthalate	85-68-7	87	U	87	870		1
04688	Di-n-butylphthalate	84-74-2	87	U	87	870		1
04688	Carbazole	86-74-8	87	U	87	870		1
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	870		1
04688	4-Chloroaniline	106-47-8	350	U	350	870		1
04688	bis(2-Chloroethoxy)methane	111-91-1	87	U	87	870		1
04688	bis(2-Chloroethyl)ether	111-44-4	87	U	87	870		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	87	U	87	870		1
04688	2-Chloronaphthalene	91-58-7	87	U	87	870		1
04688	2-Chlorophenol	95-57-8	87	U	87	870		1
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	870		1
04688	Dibenzofuran	132-64-9	87	U	87	870		1
04688	1,2-Dichlorobenzene	95-50-1	87	U	87	870		1
04688	1,3-Dichlorobenzene	541-73-1	87	U	87	870		1
04688	1,4-Dichlorobenzene	106-46-7	87	U	87	870		1
04688	3,3'-Dichlorobenzidine	91-94-1	520	U	520	1,700		1
04688	2,4-Dichlorophenol	120-83-2	87	U	87	870		1
04688	Diethylphthalate	84-66-2	87	U	87	870		1
04688	2,4-Dimethylphenol	105-67-9	170	U	170	870		1
04688	3,5-Dimethylphenol	108-68-9	170	U	170	870		1
04688	Dimethylphthalate	131-11-3	87	U	87	870		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	870	U	870	2,600		1
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,200		1
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	870		1
04688	2,6-Dinitrotoluene	606-20-2	87	U	87	870		1
04688	1,2-Diphenylhydrazine	122-66-7	87	U	87	870		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	87	U	87	1,700		1
04688	Hexachlorobenzene	118-74-1	87	U	87	870		1
04688	Hexachlorobutadiene	87-68-3	350	U	350	870		1
04688	Hexachlorocyclopentadiene	77-47-4	870	U	870	2,600		1
04688	Hexachloroethane	67-72-1	87	U	87	870		1
04688	Isophorone	78-59-1	87	U	87	870		1
04688	2-Methylphenol	95-48-7	170	U	170	870		1
04688	4-Methylphenol	106-44-5	170	U	170	870		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	87	U	87	870		1
04688	3-Nitroaniline	99-09-2	170	U	170	870		1
04688	4-Nitroaniline	100-01-6	350	U	350	870		1
04688	Nitrobenzene	98-95-3	87	U	87	870		1
04688	2-Nitrophenol	88-75-5	87	U	87	870		1
04688	4-Nitrophenol	100-02-7	870	U	870	2,600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	87	U	87	870		1
04688	N-Nitrosodiphenylamine	86-30-6	87	U	87	870		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-113-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA6-SS-0.0-0.5

LLI Sample # SW 6342223
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 12:08

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11300 SDG#: DE198-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	87	U	87	870		1
04688	Pentachlorophenol	87-86-5	870	U	870	2,600		1
04688	Phenol	108-95-2	87	U	87	870		1
04688	Tetralin	119-64-2	870	U	870	870		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	87	U	87	870		1
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	870		1
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	870		1
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	35	U	35	87		10
10138	Acenaphthylene	208-96-8	17	U	17	87		10
10138	Anthracene	120-12-7	17	U	17	87		10
10138	Benzo(a)anthracene	56-55-3	35	U	35	87		10
10138	Benzo(a)pyrene	50-32-8	35	U	35	87		10
10138	Benzo(b)fluoranthene	205-99-2	35	U	35	87		10
10138	Benzo(g,h,i)perylene	191-24-2	97		35	87		10
10138	Benzo(k)fluoranthene	207-08-9	35	U	35	87		10
10138	Chrysene	218-01-9	48	J	17	87		10
10138	Dibenz(a,h)anthracene	53-70-3	35	U	35	87		10
10138	Fluoranthene	206-44-0	35	U	35	87		10
10138	Fluorene	86-73-7	35	U	35	87		10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	35	U	35	87		10
10138	1-Methylnaphthalene	90-12-0	35	U	35	87		10
10138	2-Methylnaphthalene	91-57-6	35	U	35	87		10
10138	Naphthalene	91-20-3	35	U	35	87		10
10138	N-Nitrosodimethylamine	62-75-9	35	U	35	87		10
10138	Phenanthrene	85-01-8	35	U	35	87		10
10138	Pyrene	129-00-0	35	U	35	87		10
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4		1
10401	2,4-DB	94-82-6	6.9		0.65	1.8		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	1.0	U	1.0	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8		1
10401	MCPA	94-74-6	290		80	260		1
10401	MCPP (Mecoprop)	93-65-2	500		79	260		1
10401	2,4,5-T	93-76-5	0.38		0.086	0.18		1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18		1
	The LCS recovery for dinoseb is outside the QC limits of 10-36% at 7%. Since							

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Sample Description: SL-113-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA6-SS-0.0-0.5

LLI Sample # SW 6342223
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 12:08

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11300 SDG#: DE198-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	dinoseb does not recover well with this method and the recovery is within our in-house statistical limits of 0-32%, the data is reported Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17		1
01363	Alpha BHC	319-84-6	0.36	U	0.36	1.7		10
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.074	U	0.074	0.17		1
01363	Chlordane	57-74-9	3.5	J	0.84	3.6		1
01363	p,p-DDD	72-54-8	0.76		0.069	0.36		1
01363	p,p-DDE	72-55-9	0.15	U	0.15	0.36		1
01363	p,p-DDT	50-29-3	1.7		0.069	0.36		1
01363	Delta BHC	319-86-8	0.052	U	0.052	0.17		1
01363	Dieldrin	60-57-1	0.92		0.069	0.36		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.30	J	0.069	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36		1
01363	Endrin	72-20-8	0.069	U	0.069	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.67	U	0.67	0.67		1
01363	Endrin Ketone	53494-70-5	1.3		0.069	0.36		1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7		1
01363	Mirex	2385-85-5	0.069	U	0.069	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9		1
	The sample followed a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised for alpha-BHC, gamma-BHC, delta-BHC, 4,4-DDE, and endrin aldehyde due to interference from the sample matrix. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	4.5		1.0	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.58	J	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1

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Sample Description: SL-113-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA6-SS-0.0-0.5

LLI Sample # SW 6342223
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 12:08

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11300 SDG#: DE198-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	42	U	42	130		20
10199	EFH (C15-C20)	n.a.	190		42	130		20
10199	EFH (C21-C30)	n.a.	1,900		42	130		20
10199	EFH (C30 - C40)	n.a.	4,200		42	130		20
10199	EFH (C8-C11)	n.a.	42	U	42	130		20
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,800		6.15	20.3		1
07914	Boron	7440-42-8	4.12	J	0.366	5.08		1
01650	Calcium	7440-70-2	2,190		2.54	20.3		1
01654	Iron	7439-89-6	19,100		2.65	20.3		1
01656	Lithium	7439-93-2	19.7		0.63	2.0		1
01657	Magnesium	7439-95-4	3,890		0.447	10.2		1
06958	Manganese	7439-96-5	230		0.0366	0.508		1
10145	Phosphorus	7723-14-0	360		0.356	10.2		1
01662	Potassium	7440-09-7	3,130		11.5	50.8		1
01667	Sodium	7440-23-5	124		6.05	102		1
07968	Strontium	7440-24-6	14.5		0.0254	0.508		1
06969	Tin	7440-31-5	3.07	J	0.325	10.2		1
06970	Titanium	7440-32-6	1,150		0.0715	1.01		1
10146	Zirconium	7440-67-7	1.94	J	0.468	5.08		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.52		0.0760	0.205		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.82		0.0821	0.411		2

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Sample Description: SL-113-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA6-SS-0.0-0.5

LLI Sample # SW 6342223
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 12:08

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11300 SDG#: DE198-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium	7440-39-3	104	0.109	0.411		2
06127	Beryllium	7440-41-7	0.652	0.0164	0.103		2
06128	Cadmium	7440-43-9	0.697	0.0452	0.103		2
06131	Chromium	7440-47-3	28.7	0.123	0.411		2
06132	Cobalt	7440-48-4	7.89	0.0205	0.103		2
06133	Copper	7440-50-8	15.8	0.0821	0.411		2
06135	Lead	7439-92-1	16.9	0.0105	0.205		2
06138	Molybdenum	7439-98-7	0.852	0.0513	0.103		2
06139	Nickel	7440-02-0	18.4	0.103	0.411		2
06141	Selenium	7782-49-2	0.112 J	0.0595	0.411		2
06142	Silver	7440-22-4	0.0926 J	0.0146	0.103		2
06145	Thallium	7440-28-0	0.251	0.0308	0.103		2
06148	Vanadium	7440-62-2	53.1	0.0226	0.103		2
06149	Zinc	7440-66-6	150	1.44	7.70		5
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0457 J	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6	0.85	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4 U	9.4	31.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	3.0	0.21	1.0		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.72	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-113-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA6-SS-0.0-0.5

LLI Sample # SW 6342223
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 12:08

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11300 SDG#: DE198-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11200SLH026	07/30/2011 00:09	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLJ026	07/22/2011 13:14	Joseph M Gambler	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLJ026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11200SLH026	07/20/2011 07:35	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111950013A	07/16/2011 05:32	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111970013A	08/09/2011 21:07	Melissa McDermott	10
01363	12a Pesticides by 8081A	SW-846 8081A	1	111970013A	08/11/2011 12:36	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112010009A	07/22/2011 22:05	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111970013A	07/18/2011 10:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112010009A	07/20/2011 19:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111950013A	07/14/2011 20:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111950018A	07/16/2011 01:24	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111950002A	07/14/2011 18:11	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112010017A	07/22/2011 10:52	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112000028A	07/21/2011 04:14	Heather E Williams	20
11238	EFH Extraction - Soils	SW-846 3550B	1	112000028A	07/20/2011 09:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112010017A	07/21/2011 06:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111950018A	07/15/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111950002A	07/14/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111955708003	07/22/2011 18:04	John P Hook	1
07914	Boron	SW-846 6010B	1	111955708003	07/22/2011 23:25	John P Hook	1
01650	Calcium	SW-846 6010B	1	111955708003	07/22/2011 18:04	John P Hook	1
01654	Iron	SW-846 6010B	1	111955708003	07/22/2011 18:04	John P Hook	1
01656	Lithium	SW-846 6010B	1	111955708003	07/22/2011 18:04	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111955708003	07/22/2011 18:04	John P Hook	1
06958	Manganese	SW-846 6010B	1	111955708003	07/22/2011 18:04	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111955708003	07/22/2011 18:04	John P Hook	1
01662	Potassium	SW-846 6010B	1	111955708003	07/22/2011 18:04	John P Hook	1
01667	Sodium	SW-846 6010B	1	111955708003	07/22/2011 23:25	John P Hook	1
07968	Strontium	SW-846 6010B	1	111955708003	07/22/2011 18:04	John P Hook	1
06969	Tin	SW-846 6010B	1	111955708003	07/22/2011 18:04	John P Hook	1
06970	Titanium	SW-846 6010B	1	112065708001	07/26/2011 21:11	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111955708003	07/22/2011 18:04	John P Hook	1
06124	Antimony	SW-846 6020	1	111951026001A	07/15/2011 12:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111951026001A	07/15/2011 12:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111951026001D	07/15/2011 12:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111951026001A	07/15/2011 12:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111951026001A	07/15/2011 12:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111951026001A	07/15/2011 12:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111951026001A	07/15/2011 12:01	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-113-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA6-SS-0.0-0.5

LLI Sample # SW 6342223
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 12:08

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11300 SDG#: DE198-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111951026001A	07/15/2011 12:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111951026001A	07/15/2011 12:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111951026001C	07/15/2011 12:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111951026001A	07/15/2011 12:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111951026001B	07/15/2011 12:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111951026001A	07/15/2011 12:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111951026001A	07/15/2011 12:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111951026001A	07/15/2011 12:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111951026001A	07/22/2011 15:47	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	111955711002	07/16/2011 13:59	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111955708003	07/14/2011 20:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112065708001	07/25/2011 21:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111951026001	07/14/2011 21:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111955711002	07/14/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208621201B	07/30/2011 17:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621201B	07/29/2011 20:53	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11204243201A	07/26/2011 19:11	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11208621201B	07/27/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621201B	07/19/2011 07:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039403B	07/21/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11204243201A	07/23/2011 05:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402B	07/20/2011 20:25	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-290-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-290-SA6-SS-0.0-0.5

LLI Sample # SW 6342224
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:00

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29000 SDG#: DE198-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	66	U	66	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	99	U	99	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	990		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	66	U	66	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	66	U	66	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-290-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-290-SA6-SS-0.0-0.5

LLI Sample # SW 6342224
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:00

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29000 SDG#: DE198-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	6.7	U	6.7	17		10
10138	Acenaphthylene	208-96-8	3.4	U	3.4	17		10
10138	Anthracene	120-12-7	3.4	U	3.4	17		10
10138	Benzo(a)anthracene	56-55-3	6.7	U	6.7	17		10
10138	Benzo(a)pyrene	50-32-8	6.7	U	6.7	17		10
10138	Benzo(b)fluoranthene	205-99-2	8.0	J	6.7	17		10
10138	Benzo(g,h,i)perylene	191-24-2	6.7	U	6.7	17		10
10138	Benzo(k)fluoranthene	207-08-9	6.7	U	6.7	17		10
10138	Di-n-butylphthalate	84-74-2	67	J	60	180		10
10138	Chrysene	218-01-9	5.2	J	3.4	17		10
10138	Dibenz(a,h)anthracene	53-70-3	6.7	U	6.7	17		10
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	71	J	60	180		10
10138	Fluoranthene	206-44-0	12	J	6.7	17		10
10138	Fluorene	86-73-7	6.7	U	6.7	17		10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.7	U	6.7	17		10
10138	1-Methylnaphthalene	90-12-0	6.7	U	6.7	17		10
10138	2-Methylnaphthalene	91-57-6	6.7	U	6.7	17		10
10138	Naphthalene	91-20-3	6.7	U	6.7	17		10
10138	N-Nitrosodimethylamine	62-75-9	6.7	U	6.7	17		10
10138	Phenanthrene	85-01-8	6.7	U	6.7	17		10
10138	Pyrene	129-00-0	9.1	J	6.7	17		10
	Reporting limits were raised due to interference from the sample matrix.							
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate 7.8 ug/kg bis(2-ethylhexyl)phthalate 6.3 ug/kg These blank values were not subtracted from the analytical results.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	4.2	U	4.2	4.2		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-290-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-290-SA6-SS-0.0-0.5

LLI Sample # SW 6342224
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:00

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29000 SDG#: DE198-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

The LCS recovery for dinoseb is outside the QC limits of 10-36% at 7%. Since dinoseb does not recover well with this method and the recovery is within our in-house statistical limits of 0-32%, the data is reported
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.40	U	0.40	0.40		1
01363	Gamma BHC - Lindane	58-89-9	0.11	J	0.034	0.17		1
01363	Chlordane	57-74-9	1.4	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.067	U	0.067	0.34		1
01363	p,p-DDT	50-29-3	0.85		0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.11	J	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.31	U	0.31	0.34		1
01363	Endrin Ketone	53494-70-5	0.47		0.067	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.064	U	0.064	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that endrin ketone was not detected in the reextract.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	13		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-290-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-290-SA6-SS-0.0-0.5

LLI Sample # SW 6342224
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:00

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29000 SDG#: DE198-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	11		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	160	J	100	500		1
The sample was analyzed and had a detection for methanol. The sample was injected on the confirmation channel yielding non-detect for all target compounds; however, the surrogate recovery was outside method limits. The sample was reextracted and reanalyzed outside the client requested hold time yielding a detection for methanol, ethanol and isopropanol on the primary channel and non-detect on the confirmation channel. The in hold data is reported.								
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	1.5		0.40	1.2		1
10199	EFH (C21-C30)	n.a.	9.4		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	34		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,500		5.86	19.4		1
07914	Boron	7440-42-8	5.05		0.349	4.84		1
01650	Calcium	7440-70-2	2,790		2.42	19.4		1
01654	Iron	7439-89-6	18,700		2.53	19.4		1
01656	Lithium	7439-93-2	20.9		0.60	1.9		1
01657	Magnesium	7439-95-4	4,370		0.426	9.69		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-290-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-290-SA6-SS-0.0-0.5

LLI Sample # SW 6342224
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:00

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29000 SDG#: DE198-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	274		0.0349	0.484		1
10145	Phosphorus	7723-14-0	407		0.339	9.69		1
01662	Potassium	7440-09-7	3,000		10.9	48.4		1
01667	Sodium	7440-23-5	68.5	J	5.77	96.9		1
07968	Strontium	7440-24-6	15.6		0.0242	0.484		1
06969	Tin	7440-31-5	2.71	J	0.310	9.69		1
06970	Titanium	7440-32-6	1,080		0.0716	1.01		1
10146	Zirconium	7440-67-7	2.28	J	0.446	4.84		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.195		0.0717	0.194		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.28		0.0775	0.388		2
06126	Barium	7440-39-3	89.4		0.103	0.388		2
06127	Beryllium	7440-41-7	0.481		0.0155	0.0969		2
06128	Cadmium	7440-43-9	0.221		0.0426	0.0969		2
06131	Chromium	7440-47-3	20.2		0.116	0.388		2
06132	Cobalt	7440-48-4	6.57		0.0194	0.0969		2
06133	Copper	7440-50-8	10.5		0.0775	0.388		2
06135	Lead	7439-92-1	8.46		0.0099	0.194		2
06138	Molybdenum	7439-98-7	0.564		0.0484	0.0969		2
06139	Nickel	7440-02-0	12.0		0.0969	0.388		2
06141	Selenium	7782-49-2	0.122	J	0.0562	0.388		2
06142	Silver	7440-22-4	0.0422	J	0.0138	0.0969		2
06145	Thallium	7440-28-0	0.239		0.0291	0.0969		2
06148	Vanadium	7440-62-2	44.2		0.0213	0.0969		2
06149	Zinc	7440-66-6	63.7		0.543	2.91		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0197	J	0.0069	0.0983		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.2		0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.09		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-290-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-290-SA6-SS-0.0-0.5

LLI Sample # SW 6342224
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:00

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29000 SDG#: DE198-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	0.77	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11200SLH026	07/30/2011	00:33	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLJ026	07/22/2011	13:46	Joseph M Gambler	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLJ026	07/21/2011	06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11200SLH026	07/20/2011	07:35	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111950013A	07/16/2011	06:00	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111970013A	08/11/2011	12:50	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112010009A	07/22/2011	22:24	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111970013A	07/18/2011	10:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112010009A	07/20/2011	19:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111950013A	07/14/2011	20:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111950018A	07/16/2011	01:39	Tracy A Cole	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111950002A	07/14/2011	18:24	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112010017A	07/21/2011	23:45	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112000028A	07/21/2011	01:18	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112000028A	07/20/2011	09:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112010017A	07/21/2011	06:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111950018A	07/15/2011	18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111950002A	07/14/2011	09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111955708003	07/22/2011	18:08	John P Hook	1
07914	Boron	SW-846 6010B	1	111955708003	07/22/2011	23:29	John P Hook	1
01650	Calcium	SW-846 6010B	1	111955708003	07/22/2011	18:08	John P Hook	1
01654	Iron	SW-846 6010B	1	111955708003	07/22/2011	18:08	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-290-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-290-SA6-SS-0.0-0.5

LLI Sample # SW 6342224
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:00

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29000 SDG#: DE198-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	111955708003	07/22/2011 18:08	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111955708003	07/22/2011 18:08	John P Hook	1
06958	Manganese	SW-846 6010B	1	111955708003	07/22/2011 18:08	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111955708003	07/22/2011 18:08	John P Hook	1
01662	Potassium	SW-846 6010B	1	111955708003	07/22/2011 18:08	John P Hook	1
01667	Sodium	SW-846 6010B	1	111955708003	07/22/2011 23:29	John P Hook	1
07968	Strontium	SW-846 6010B	1	111955708003	07/22/2011 18:08	John P Hook	1
06969	Tin	SW-846 6010B	1	111955708003	07/22/2011 18:08	John P Hook	1
06970	Titanium	SW-846 6010B	1	112065708001	07/26/2011 21:15	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111955708003	07/22/2011 18:08	John P Hook	1
06124	Antimony	SW-846 6020	1	111951026001A	07/15/2011 12:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111951026001A	07/15/2011 12:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111951026001D	07/15/2011 12:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111951026001A	07/15/2011 12:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111951026001A	07/15/2011 12:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111951026001A	07/15/2011 12:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111951026001A	07/15/2011 12:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111951026001A	07/15/2011 12:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111951026001A	07/15/2011 12:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111951026001C	07/15/2011 12:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111951026001A	07/15/2011 12:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111951026001B	07/15/2011 12:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111951026001A	07/15/2011 12:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111951026001A	07/15/2011 12:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111951026001A	07/15/2011 12:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111951026001A	07/15/2011 12:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111955711002	07/16/2011 14:01	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111955708003	07/14/2011 20:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112065708001	07/25/2011 21:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111951026001	07/14/2011 21:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111955711002	07/14/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208621201B	07/30/2011 17:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621201B	07/29/2011 21:16	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11204243201A	07/26/2011 19:23	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11208621201B	07/27/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621201B	07/19/2011 07:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11202039403B	07/21/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11204243201A	07/23/2011 05:45	Daniel S Smith	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-290-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-290-SA6-SS-0.0-0.5

LLI Sample # SW 6342224
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:00

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29000 SDG#: DE198-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402B	07/20/2011 20:25	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB-SA6-SS-071211 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-071211

LLI Sample # WW 6342225
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 13:00

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB712 SDG#: DE198-17EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	4.95		0.499	0.998		1
GC/MS Semivolatiles SW-846 8270C			**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	60		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	30		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	30		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB-SA6-SS-071211 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-071211

LLI Sample # WW 6342225
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 13:00

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB712 SDG#: DE198-17EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	Tetralin	119-64-2	5	U	5	5		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.052		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.052		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.052		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.052		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.052		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.052		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.052		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.052		1
10137	Butylbenzylphthalate	85-68-7	0.052	U	0.052	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.28	J	0.052	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.052		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.052		1
10137	Diethylphthalate	84-66-2	0.052	U	0.052	1.0		1
10137	Dimethylphthalate	131-11-3	0.052	U	0.052	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.29	J	0.052	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.052		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.052		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.052		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.052		1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.052		1
10137	Naphthalene	91-20-3	0.050	J	0.031	0.052		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.052		1
10137	Di-n-octylphthalate	117-84-0	0.052	U	0.052	1.0		1
10137	Phenanthrene	85-01-8	0.031	U	0.031	0.052		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.052		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate .22 ug/l
bis(2-ethylhexyl)phthalate .21 ug/l
These blank values were not subtracted from the analytical results. This sample was re-extracted outside of the method required holding time, and di-n-butylphthalate was again detected in the method blank and sample. Bis(2-ethylhexyl)phthalate was again detected in the sample. The data reported here is from the initial extraction of the sample.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB-SA6-SS-071211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-071211

LLI Sample # WW 6342225
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 13:00

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB712 SDG#: DE198-17EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.87		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.16	U	0.16	0.51		1
10407	Dalapon	75-99-0	0.25	U	0.25	1.3		1
10407	2,4-DB	94-82-6	0.31	U	0.31	1.0		1
10407	Dicamba	1918-00-9	0.082	U	0.082	0.31		1
10407	Dinoseb	88-85-7	0.10	U	0.10	0.51		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.16	U	0.16	0.51		1
10407	MCPA	94-74-6	310	U	310	1,000		1
10407	MCPP	93-65-2	51	U	51	200		1
10407	2,4,5-T	93-76-5	0.015	U	0.015	0.051		1

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Sample Description: EB-SA6-SS-071211 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-071211

LLI Sample # WW 6342225
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 13:00

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB712 SDG#: DE198-17EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/l		ug/l	ug/l	ug/l	
10407	2,4,5-TP	93-72-1	0.010	U	0.010	0.051		1
HPLC Organics	**SW-846 8315A**		ug/l		ug/l	ug/l	ug/l	
04144	25b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8081A**		ug/l		ug/l	ug/l	ug/l	
00177	Aldrin	309-00-2	0.0020	U	0.0020	0.010		1
00177	Alpha BHC	319-84-6	0.0030	U	0.0030	0.010		1
00177	Beta BHC	319-85-7	0.0029	U	0.0029	0.010		1
00177	Gamma BHC - Lindane	58-89-9	0.0020	U	0.0020	0.010		1
00177	Chlordane	57-74-9	0.12	U	0.12	0.50		1
00177	p,p-DDD	72-54-8	0.0050	U	0.0050	0.020		1
00177	p,p-DDE	72-55-9	0.0050	U	0.0050	0.020		1
00177	p,p-DDT	50-29-3	0.0050	U	0.0050	0.020		1
00177	Delta BHC	319-86-8	0.0029	U	0.0029	0.010		1
00177	Dieldrin	60-57-1	0.0053	U	0.0053	0.020		1
00177	Endosulfan I	959-98-8	0.0043	U	0.0043	0.010		1
00177	Endosulfan II	33213-65-9	0.015	U	0.015	0.020		1
00177	Endosulfan Sulfate	1031-07-8	0.0058	U	0.0058	0.020		1
00177	Endrin	72-20-8	0.0081	U	0.0081	0.020		1
00177	Endrin Aldehyde	7421-93-4	0.020	U	0.020	0.10		1
00177	Endrin Ketone	53494-70-5	0.0050	U	0.0050	0.020		1
00177	Heptachlor	76-44-8	0.011		0.0026	0.010		1
00177	Heptachlor Epoxide	1024-57-3	0.0023	U	0.0023	0.010		1
00177	Methoxychlor	72-43-5	0.030	U	0.030	0.10		1
00177	Mirex	2385-85-5	0.085	U	0.085	0.25		1
00177	Toxaphene	8001-35-2	1.0	U	1.0	3.0		1
Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.099	U	0.099	0.49		1
10227	Aroclor 5442	12642-23-8	0.099	U	0.099	0.49		1
10227	Aroclor 5460	11126-42-4	0.099	U	0.099	0.49		1
10227	PCB-1016	12674-11-2	0.099	U	0.099	0.49		1
10227	PCB-1221	11104-28-2	0.099	U	0.099	0.49		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.49		1
10227	PCB-1242	53469-21-9	0.099	U	0.099	0.49		1
10227	PCB-1248	12672-29-6	0.099	U	0.099	0.49		1
10227	PCB-1254	11097-69-1	0.099	U	0.099	0.49		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.49		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.49		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.49		1
GC Miscellaneous	**SW-846 8015B**		ug/l		ug/l	ug/l	ug/l	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1

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Sample Description: EB-SA6-SS-071211 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-071211

LLI Sample # WW 6342225
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 13:00

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB712 SDG#: DE198-17EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		mg/l		mg/l	mg/l	mg/l	
08278	Diethylene glycol	111-46-6	20	U	20	200		1
08278	Ethylene glycol	107-21-1	20	U	20	200		1
08278	Propylene glycol	57-55-6	20	U	20	200		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		mg/l		mg/l	mg/l	mg/l	
10319	m-Terphenyl	92-06-8	0.082	U	0.082	0.26		1
10319	o-Terphenyl	84-15-1	0.082	U	0.082	0.26		1
10319	p-Terphenyl	92-94-4	0.082	U	0.082	0.26		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		mg/l		mg/l	mg/l	mg/l	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.61		1
Metals	**SW-846 6010B**		mg/l		mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	0.0801	U	0.0801	0.200		1
08014	Boron	7440-42-8	0.0072	J	0.0022	0.0500		1
01750	Calcium	7440-70-2	0.0775	J	0.0705	0.200		1
01754	Iron	7439-89-6	0.0154	J	0.0141	0.200		1
01756	Lithium	7439-93-2	0.0076	U	0.0076	0.0200		1
01757	Magnesium	7439-95-4	0.0067	U	0.0067	0.100		1
07058	Manganese	7439-96-5	0.00044	U	0.00044	0.0050		1
10143	Phosphorus	7723-14-0	0.0047	U	0.0047	0.100		1
01762	Potassium	7440-09-7	0.0874	U	0.0874	0.500		1
01767	Sodium	7440-23-5	0.0647	U	0.0647	1.00		1
08068	Strontium	7440-24-6	0.00050	J	0.00022	0.0050		1
07069	Tin	7440-31-5	0.0043	U	0.0043	0.0200		1
07070	Titanium	7440-32-6	0.00046	U	0.00046	0.0100		1
10144	Zirconium	7440-67-7	0.0042	U	0.0042	0.0500		1
	SW-846 6020		mg/l		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.00042	U	0.00042	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00069	U	0.00069	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000080	U	0.000080	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00027	U	0.00027	0.0020		1

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Sample Description: EB-SA6-SS-071211 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-071211

LLI Sample # WW 6342225
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 13:00

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB712 SDG#: DE198-17EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06042	Silver	7440-22-4	0.000098 U	0.000098	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00018 U	0.00018	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000026 U	0.000026	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	17b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.0	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	15b NDMA by 1625C	EPA 1625C	1	11195WAH026	07/20/2011 14:15	Matthew S Woods	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11197WAL026	08/01/2011 13:00	Linda M Hartenstine	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11197WAH026	07/18/2011 09:58	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	11197WAL026	07/17/2011 20:30	Elaine F Stoltzfus	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11197WAH026	07/17/2011 21:45	Nicholas W Shroyer	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11195WAH026	07/15/2011 01:00	David V Hershey Jr	1

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Sample Description: **EB-SA6-SS-071211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-071211

LLI Sample # WW 6342225
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 13:00

Submitted: 07/13/2011 09:50
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CDM Federal Programs Corp.
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EB712 SDG#: DE198-17EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10131	16b Energetics by 8330A	SW-846 8330A	1	111990020A	07/22/2011 01:25	James H Place	1
04144	25b Formaldehyde 8315A	SW-846 8315A	1	111950003A	07/15/2011 16:56	James H Place	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	112000014A	07/20/2011 15:26	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	111970010A	07/24/2011 12:54	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111940010A	07/18/2011 16:21	Sarah M Snyder	1
11117	PCB Waters Extraction	SW-846 3510C	1	111940010A	07/13/2011 15:40	JoElla L Rice	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	111970010A	07/18/2011 02:00	David V Hershey Jr	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	112000014A	07/19/2011 20:00	Elaine F Stoltzfus	1
01013	Formaldehyde Extraction	SW-846 8315A	1	111950003A	07/14/2011 14:30	Kelli M Barto	1
11122	Energetics Extraction	SW-846 8330	1	111990020A	07/19/2011 13:50	Olivia Arosemena	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	111960031A	07/15/2011 19:00	Elizabeth J Marin	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	111990001A	07/18/2011 12:52	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	111970015A	07/20/2011 23:09	Heather E Williams	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111970005A	07/19/2011 11:48	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	111970005A	07/17/2011 11:30	Kathryn I DeHaven	1
10304	Terphenyls water prep	SW-846 3510C	1	111970015A	07/18/2011 08:30	Catherine R Wiker	1
01743	Aluminum	SW-846 6010B	1	111961848002	07/19/2011 06:57	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	111961848002	07/19/2011 06:57	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	111961848002	07/19/2011 06:57	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	111961848002	07/19/2011 06:57	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	111961848002	07/19/2011 06:57	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	111961848002	07/19/2011 06:57	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	111961848002	07/19/2011 06:57	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	111961848002	07/19/2011 06:57	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	111961848002	07/19/2011 06:57	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	111961848002	07/19/2011 06:57	Tara L Snyder	1
08068	Strontium	SW-846 6010B	1	111961848002	07/19/2011 06:57	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	111961848002	07/19/2011 06:57	Tara L Snyder	1
07070	Titanium	SW-846 6010B	1	111961848002	07/19/2011 06:57	Tara L Snyder	1
10144	Zirconium	SW-846 6010B	1	111961848002	07/19/2011 06:57	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	111966050001A	07/19/2011 09:33	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111966050001A	07/19/2011 09:33	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111966050001D	07/19/2011 09:33	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111966050001A	07/19/2011 09:33	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111966050001A	07/19/2011 09:33	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111966050001A	07/19/2011 09:33	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111966050001A	07/19/2011 09:33	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111966050001A	07/19/2011 09:33	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111966050001A	07/19/2011 09:33	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111966050001C	07/19/2011 09:33	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111966050001A	07/19/2011 09:33	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111966050001B	07/19/2011 09:33	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111966050001A	07/19/2011 09:33	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111966050001A	07/19/2011 09:33	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111966050001A	07/19/2011 09:33	Choon Y Tian	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB-SA6-SS-071211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-071211

LLI Sample # WW 6342225
LLI Group # 1255916
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 13:00

Submitted: 07/13/2011 09:50
Reported: 08/24/2011 17:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB712 SDG#: DE198-17EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06049	Zinc	SW-846 6020	1	111966050001A	07/19/2011 09:33	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111995713004	07/19/2011 08:26	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111961848002	07/16/2011 07:30	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111966050001	07/16/2011 07:25	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111995713004	07/18/2011 15:00	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11194196901C	07/13/2011 22:25	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11194196901C	07/13/2011 22:25	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11198621701A	07/17/2011 11:15	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11194281401A	07/13/2011 12:43	Elyse P Brunstetter	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11196117101B	07/15/2011 18:53	Joseph E McKenzie	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11196117101B	07/15/2011 09:40	Nancy J Shoop	1
00200	18b pH by 9040B	SW-846 9040B	1	11195020001A	07/14/2011 21:30	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255916
Reported: 08/24/11 at 05:42 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111951AA	Sample number(s): 6342209,6342211,6342213,6342215									
Acetone	9.3		6.7	8.0	ug/kg	116	125	32-209	7	30
Benzene	0.10	U	0.10	4.0	ug/kg	109	105	80-120	3	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	102	101	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	114	109	79-124	5	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	107	107	78-120	0	30
Bromoform	0.40	U	0.40	4.0	ug/kg	108	110	70-120	1	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	84	83	32-162	0	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	101	106	46-153	5	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	103	104	72-120	1	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	101	102	75-120	0	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	100	97	75-120	3	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	118	114	69-122	3	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	107	106	80-120	1	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	75	75	37-154	1	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	86	83	43-146	3	30
Chloroform	0.14	J	0.12	4.0	ug/kg	114	111	80-120	3	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	91	92	54-132	1	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102	102	78-120	0	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	107	105	79-120	2	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	73	72	22-131	1	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	110	114	58-120	4	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	109	108	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	106	109	80-120	3	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	103	104	80-120	1	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	105	106	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	102	103	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	103	104	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	88	85	20-120	3	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	109	106	80-120	3	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	119	118	71-129	0	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	118	113	73-123	5	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	105	103	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	110	106	79-120	4	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	99	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	105	106	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	116	114	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	106	102	77-120	4	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	96	97	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	98	101	77-120	3	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	108	104	80-120	4	30
Freon 113	0.11	U	0.11	4.0	ug/kg	118	113	61-126	5	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	105	103	78-120	2	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	89	97	57-120	9	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	102	107	45-155	5	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	109	106	76-120	3	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255916
Reported: 08/24/11 at 05:42 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	101	102	75-120	1	30
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	106	109	74-121	3	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	102	105	61-134	3	30
Methylene Chloride	2.1	J	0.24	4.0	ug/kg	129*	127*	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	107	105	77-120	2	30
Styrene	0.10	U	0.10	4.0	ug/kg	109	107	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	111	111	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	101	103	71-123	2	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	108	109	77-120	0	30
Toluene	0.11	J	0.08	4.0	ug/kg	109	106	80-120	3	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	95	100	64-120	5	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	87	90	68-120	4	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	117	112	71-125	4	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	106	108	80-120	2	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	104	102	80-120	2	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	106	104	58-133	2	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	106	110	71-123	3	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	104	103	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	107	105	78-120	2	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	88	88	53-120	0	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	111	108	80-120	3	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	105	103	80-120	2	30
Batch number: E111951AA	Sample number(s): 6342217									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	110	106	80-123	3	30
Batch number: E111961AA	Sample number(s): 6342209,6342211,6342213,6342215									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	92	104	70-130	12	30
Batch number: Y111961AA	Sample number(s): 6342217									
Acetone	6	U	6.	20	ug/l	71	67	49-234	6	30
Benzene	0.5	U	0.5	5	ug/l	100	100	79-120	0	30
Bromobenzene	1	U	1.	5	ug/l	110	109	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	109	107	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	102	101	80-120	1	30
Bromoform	1	U	1.	5	ug/l	101	99	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	78	79	44-120	0	30
2-Butanone	3	U	3.	10	ug/l	85	85	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	96	95	74-120	2	30
sec-Butylbenzene	1	U	1.	5	ug/l	97	96	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	101	101	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	100	99	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	103	103	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	82	82	49-129	0	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	104	108	56-129	3	30
Chloroform	0.8	U	0.8	5	ug/l	102	102	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	77	78	60-129	2	30
2-Chlorotoluene	1	U	1.	5	ug/l	107	106	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	105	104	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	91	89	38-136	2	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	95	93	56-126	2	30
Dibromochloromethane	1	U	1.	5	ug/l	101	100	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	98	98	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	98	99	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	102	102	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	111	110	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	107	106	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	64	64	47-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255916
Reported: 08/24/11 at 05:42 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1-Dichloroethane	1	U	1.	5	ug/l	104	105	79-120	0	30
1,2-Dichloroethane	1	U	1.	5	ug/l	112	110	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	85	86	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	102	101	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	100	101	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	99	99	78-120	0	30
1,3-Dichloropropane	1	U	1.	5	ug/l	98	97	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	97	98	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	104	103	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	101	103	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	92	92	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	96	79-120	1	30
Freon 113	2	U	2.	10	ug/l	78	77	69-128	1	30
Freon 133a	2	U	2.	5	ug/l	80	80	77-120	0	30
Hexachlorobutadiene	2	U	2.	5	ug/l	95	96	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	83	83	65-136	0	30
Isopropylbenzene	1	U	1.	5	ug/l	102	101	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	102	102	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	97	98	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	89	87	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	98	97	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	94	94	80-120	0	30
Styrene	1	U	1.	5	ug/l	98	96	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	104	103	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	89	89	71-120	0	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	106	106	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	95	96	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	107	107	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	102	101	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	89	89	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	95	95	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	101	103	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	73	73	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	97	99	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	102	102	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	101	101	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	78	81	65-125	4	30
m+p-Xylene	0.8	U	0.8	5	ug/l	99	98	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
Batch number: 11195WAH026	Sample number(s): 6342225									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	102	100	70-130	2	30
Batch number: 11197WAH026	Sample number(s): 6342225									
Acenaphthene	0.010	U	0.010	0.050	ug/l	104	106	74-109	2	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	110	112*	70-110	1	30
Anthracene	0.010	U	0.010	0.050	ug/l	108	109	66-111	1	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	108	107	72-114	1	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	104	104	60-127	0	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	104	118	69-123	13	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	99	100	57-131	1	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	109	98	59-130	10	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	86	75	40-138	13	30
Di-n-butylphthalate	0.22	J	0.050	1.0	ug/l	108	104	74-131	4	30
Chrysene	0.010	U	0.010	0.050	ug/l	102	101	76-116	0	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	100	101	55-134	1	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	101	88	57-134	13	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	72	45	40-119	45*	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255916
Reported: 08/24/11 at 05:42 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Bis(2-Ethylhexyl)phthalate	0.21	J	0.050	1.0	ug/l	118	127	57-154	7	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	107	107	75-116	0	30
Fluorene	0.010	U	0.010	0.050	ug/l	114	115*	75-114	1	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	100	101	69-124	1	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	96	95	71-117	0	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	100	100	75-115	0	30
Naphthalene	0.030	U	0.030	0.050	ug/l	98	98	72-109	0	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	76	81	36-89	7	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	111	113	57-145	2	30
Phenanthrene	0.030	U	0.030	0.050	ug/l	101	102	76-111	1	30
Pyrene	0.010	U	0.010	0.050	ug/l	103	104	69-118	1	30
Batch number: 11197WAL026	Sample number(s): 6342225									
Aniline	1	U	1.	5	ug/l	80	83	38-116	3	30
Benzidine	20	U	20.	60	ug/l	79	74	34-117	6	30
Benzoic acid	83		6.	15	ug/l	45	42	10-69	6	30
Benzyl alcohol	5	U	5.	15	ug/l	85	91	66-97	6	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	100	103	75-115	3	30
Carbazole	1	U	1.	5	ug/l	99	102	75-120	3	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	102	105	70-123	2	30
4-Chloroaniline	1	U	1.	5	ug/l	83	76	24-128	8	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	100	102	74-124	2	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	94	101	77-108	8	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	91	97	62-127	6	30
2-Chloronaphthalene	2	U	2.	5	ug/l	85	89	54-132	4	30
2-Chlorophenol	1	U	1.	5	ug/l	98	103	71-114	5	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	101	104	77-114	3	30
Dibenzofuran	1	U	1.	5	ug/l	99	103	75-117	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	86	92	55-118	7	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	86	89	61-111	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	85	90	53-119	5	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	77	74	37-117	3	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	103	104	77-117	1	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	101	105	72-110	3	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	102	107	70-130	4	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	92	99	65-126	7	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	87	91	52-131	5	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	102	106	76-119	4	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	108	108	76-118	1	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	103	108	68-127	5	30
Hexachlorobenzene	1	U	1.	5	ug/l	96	99	75-119	4	30
Hexachlorobutadiene	1	U	1.	5	ug/l	95	95	57-124	1	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	104	109	36-118	6	30
Hexachloroethane	1	U	1.	5	ug/l	88	91	52-113	3	30
Isophorone	1	U	1.	5	ug/l	101	106	74-117	4	30
2-Methylphenol	1	U	1.	5	ug/l	91	97	58-110	7	30
4-Methylphenol	2	U	2.	5	ug/l	84	87	49-108	4	30
2-Nitroaniline	1	U	1.	5	ug/l	107	111	75-120	4	30
3-Nitroaniline	1	U	1.	5	ug/l	100	102	74-113	2	30
4-Nitroaniline	1	U	1.	5	ug/l	82	79	59-100	3	30
Nitrobenzene	1	U	1.	5	ug/l	100	102	75-109	3	30
2-Nitrophenol	1	U	1.	5	ug/l	107	112	76-118	4	30
4-Nitrophenol	10	U	10.	30	ug/l	49	49	16-78	0	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	96	101	69-110	5	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	103	107	67-136	4	30
Pentachlorophenol	3	U	3.	15	ug/l	91	97	53-110	6	30
Phenol	1	U	1.	5	ug/l	42	44	21-67	5	30
Tetralin	5	U	5.	5	ug/l	0*	0*	70-130	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255916
Reported: 08/24/11 at 05:42 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	94	99	71-112	5	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	104	109*	79-107	5	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	109	112	76-120	3	30
Batch number: 11200SLH026	Sample number(s): 6342209-6342216,6342218-6342224									
Aniline	170 U		170.	500	ug/kg	73		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	59		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	100		73-112		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	99		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	102		67-125		
Benzoic acid	170 U		170.	500	ug/kg	99		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	97		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	100		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	106		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	105		79-112		
Carbazole	17	U	17.	170	ug/kg	99		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	103		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	60		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	96		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	96		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	95		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	83		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	102		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	99		79-110		
Chrysene	17	U	17.	170	ug/kg	97		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	101		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	97		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	95		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	94		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	93		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	55		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	100		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	103		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	100		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	104		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	102		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	87		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	74		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	103		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	103		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	102		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	108		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	96		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	97		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	109		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	95		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	100		64-119		
Isophorone	17	U	17.	170	ug/kg	98		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	100		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	96		66-117		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255916
Reported: 08/24/11 at 05:42 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Nitroaniline	17	U	17.	170	ug/kg	103		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	95		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	78		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	97		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	101		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	85		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	94		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	102		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	119		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	94		51-117		
Phenol	17	U	17.	170	ug/kg	97		58-112		
Tetralin	170	U	170.	170	ug/kg	97		70-130		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	104		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	107		78-111		
Batch number: 11201SLB026	Sample number(s): 6342215-6342216									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	98		70-130		
Batch number: 11201SLJ026	Sample number(s): 6342209-6342216,6342218-6342224									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	97		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	102		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	103		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	129		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	153*		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	138		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	128		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	105		65-131		
Di-n-butylphthalate	7.8	J	6.0	18	ug/kg	114		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	98		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	138		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	106		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	107		79-121		
Bis(2-Ethylhexyl)phthalate	6.3	J	6.0	18	ug/kg	117		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	110		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	99		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	137*		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	86		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	113		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	152		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	98		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	101		56-121		
Batch number: 11195A34A	Sample number(s): 6342209-6342216									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	77	80	67-119	4	30
Batch number: 11195C20A	Sample number(s): 6342217									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 111990020A	Sample number(s): 6342225									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	100	110	80-120	10	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	99	100	80-120	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255916
Reported: 08/24/11 at 05:42 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	100	103	50-122	3	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	100	103	50-122	3	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	100	110	72-117	10	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	92	96	80-120	4	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	98	100	80-120	2	30
HMX	0.65	U	0.65	2.0	ug/l	97	99	65-125	2	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	89	92	75-121	3	30
Nitroglycerin	5.2	U	5.2	15	ug/l	104	108	80-120	4	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	92	98	74-120	6	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	98	100	69-107	2	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	93	97	80-120	4	30
PETN	6.0	U	6.0	18	ug/l	121*	125*	80-120	3	30
RDX	0.20	U	0.20	0.60	ug/l	91	91	70-125	0	30
Tetryl	0.40	U	0.40	0.60	ug/l	95	97	72-141	2	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	100	100	53-129	0	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	96	99	76-109	3	30
Batch number: 111950003A	Sample number(s): 6342225									
25b Formaldehyde 8315A	10	U	10.	50	ug/l	98	96	69-130	2	30
Batch number: 111970007A	Sample number(s): 6342215-6342216									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	99		80-126		
Batch number: 111950013A	Sample number(s): 6342218-6342224									
2,4-D	1.2	U	1.2	3.6	ug/kg	94		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	57		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	87		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	100		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	7*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	119		62-170		
MCPA	76	U	76.	250	ug/kg	82		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	100		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	87		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	84		68-114		
Batch number: 112000014A	Sample number(s): 6342225									
2,4-D	0.16	U	0.16	0.50	ug/l	100	108	73-157	8	30
Dalapon	0.25	U	0.25	1.3	ug/l	83	95	40-100	14	30
2,4-DB	0.30	U	0.30	1.0	ug/l	88	96	65-130	9	30
Dicamba	0.080	U	0.080	0.30	ug/l	108	120	68-135	11	30
Dinoseb	0.10	U	0.10	0.50	ug/l	84	88	32-91	5	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	128	140	76-170	9	30
MCPA	300 U		300.	1,000	ug/l	86	92	65-128	7	30
MCPP	50	U	50.	200	ug/l	104	112	67-137	7	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	92	100	63-147	8	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	96	108	63-134	12	30
Batch number: 111940010A	Sample number(s): 6342225									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	78	76	35-84	3	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	94	94	51-128	0	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255916
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	98	102	56-135	4	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111970010A	Sample number(s): 6342225									
Aldrin	0.0020	U	0.0020	0.010	ug/l	111	111	54-159	0	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	120	120	59-146	0	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	103	113	73-147	10	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	120	120	68-128	0	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	120	130	71-139	8	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	116	121	66-130	4	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	95	100	53-126	5	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	124	124	76-148	0	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	110	115	76-132	4	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	110	110	68-128	0	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	115	120	59-144	4	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	115	120	71-142	4	30
Endrin	0.0081	U	0.0081	0.020	ug/l	105	110	52-132	5	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	120	125	68-139	4	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	105	110	69-146	5	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	110	110	57-126	0	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	102	112	73-156	10	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	100	110	52-133	10	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 111970013A	Sample number(s): 6342218-6342224									
Aldrin	0.066	U	0.066	0.17	ug/kg	73		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	59		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	75		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	65		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	87		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	95		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	96		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	78		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	85		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	85		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	100		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	108		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	85		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	89		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	109		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	65		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	94		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	106		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112010009A	Sample number(s): 6342209-6342216,6342218-6342224									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	84	89	36-106	6	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	92		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255916
Reported: 08/24/11 at 05:42 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	108		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111950002A	Sample number(s): 6342209-6342216,6342218-6342224									
Diethylene glycol	5.0	U	5.0	10	mg/kg	96		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	95		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	91		75-125		
Batch number: 111950018A	Sample number(s): 6342209,6342211,6342213,6342215-6342216,6342218-6342224									
Ethanol	100 U		100.	500	ug/kg	99		71-129		
Isopropanol	100 U		100.	500	ug/kg	100		75-125		
Methanol	100 U		100.	500	ug/kg	92		68-129		
Batch number: 111960031A	Sample number(s): 6342225									
Ethanol	200 U		200.	1,000	ug/l	104		66-132		
Isopropanol	200 U		200.	1,000	ug/l	100		75-125		
Methanol	200 U		200.	1,000	ug/l	92		71-140		
Batch number: 111960033A	Sample number(s): 6342210,6342212,6342214									
Ethanol	100 U		100.	500	ug/kg	98	99	71-129	0	20
Isopropanol	100 U		100.	500	ug/kg	98	99	75-125	1	20
Methanol	100 U		100.	500	ug/kg	92	93	68-129	1	20
Batch number: 111990001A	Sample number(s): 6342225									
Diethylene glycol	20	U	20.	200	mg/l	110	115	78-126	4	20
Ethylene glycol	20	U	20.	200	mg/l	89	105	80-124	16	20
Propylene glycol	20	U	20.	200	mg/l	85	100	80-120	16	20
Batch number: 111970005A	Sample number(s): 6342225									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	92	94	69-125	2	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	91	96	77-125	6	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	85	72	68-124	16	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	93	93	80-121	0	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	78	82	46-103	5	30
Batch number: 111970015A	Sample number(s): 6342225									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	75	76	75-125	1	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	90	92	75-125	2	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	86	87	75-125	1	20
Batch number: 112000028A	Sample number(s): 6342209-6342216,6342218-6342224									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	90		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	93		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	77		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	95		67-127		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255916
Reported: 08/24/11 at 05:42 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	68		54-107		
Batch number: 112010017A	Sample number(s): 6342209-6342216,6342218-6342224									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	84		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	99		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	93		75-125		
Batch number: 111951026001A	Sample number(s): 6342209-6342216,6342218-6342224									
Antimony	0.0740	U	0.0740	0.200	mg/kg	143		10-224		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	108		78-122		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	103		80-120		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	108		81-119		
Chromium	0.120	U	0.120	0.400	mg/kg	117		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	112		80-119		
Copper	0.0800	U	0.0800	0.400	mg/kg	115		78-122		
Lead	0.0102	U	0.0102	0.200	mg/kg	106		77-123		
Nickel	0.100	U	0.100	0.400	mg/kg	115		80-120		
Silver	0.0142	U	0.0142	0.100	mg/kg	110		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	108		75-124		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	120		76-124		
Zinc	0.560	U	0.560	3.00	mg/kg	110		79-121		
Batch number: 111951026001B	Sample number(s): 6342209-6342216,6342218-6342224									
Selenium	0.0580	U	0.0580	0.400	mg/kg	111		77-123		
Batch number: 111951026001C	Sample number(s): 6342209-6342216,6342218-6342224									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	112		76-123		
Batch number: 111951026001D	Sample number(s): 6342209-6342216,6342218-6342224									
Barium	0.106	U	0.106	0.400	mg/kg	109		80-120		
Batch number: 111955708003	Sample number(s): 6342209-6342216,6342218-6342224									
Aluminum	6.05	U	6.05	20.0	mg/kg	142		42-158		
Boron	0.360	U	0.360	5.00	mg/kg	107		66-134		
Calcium	2.50	U	2.50	20.0	mg/kg	108		79-121		
Iron	2.61	U	2.61	20.0	mg/kg	129		51-149		
Lithium	0.62	U	0.62	2.0	mg/kg	98		80-120		
Magnesium	0.440	U	0.440	10.0	mg/kg	120		64-136		
Manganese	0.0360	U	0.0360	0.500	mg/kg	110		78-122		
Phosphorus	1.30	J	0.350	10.0	mg/kg	103		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	124		69-131		
Sodium	5.95	U	5.95	100	mg/kg	114		71-129		
Strontium	0.0250	U	0.0250	0.500	mg/kg	106		81-119		
Tin	1.71	J	0.320	10.0	mg/kg	105		74-126		
Zirconium	0.820	J	0.460	5.00	mg/kg	105		80-120		
Batch number: 111955711002	Sample number(s): 6342209-6342216,6342218-6342224									
Mercury	0.0070	U	0.0070	0.0995	mg/kg	98		72-128		
Batch number: 111961848002	Sample number(s): 6342225									
Aluminum	0.0801	U	0.0801	0.200	mg/l	102	104	90-112	2	20
Boron	0.0043	J	0.0022	0.0500	mg/l	101	102	89-110	1	20
Calcium	0.0705	U	0.0705	0.200	mg/l	105	105	90-112	0	20
Iron	0.0141	U	0.0141	0.200	mg/l	105	104	90-112	1	20
Lithium	0.0076	U	0.0076	0.0200	mg/l	101	101	80-120	0	20
Magnesium	0.0067	U	0.0067	0.100	mg/l	102	103	89-110	0	20
Manganese	0.00044	U	0.00044	0.0050	mg/l	106	108	90-110	1	20
Phosphorus	0.0047	U	0.0047	0.100	mg/l	107	107	80-120	0	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255916
Reported: 08/24/11 at 05:42 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Potassium	0.0874 U	0.0874	0.500	mg/l	102	102	85-115	0	20
Sodium	0.0647 U	0.0647	1.00	mg/l	99	99	87-114	0	20
Strontium	0.00029 J	0.00022	0.0050	mg/l	105	106	90-110	1	20
Tin	0.0043 U	0.0043	0.0200	mg/l	101	100	90-110	1	20
Titanium	0.00046 U	0.00046	0.0100	mg/l	102	102	90-113	1	20
Zirconium	0.0042 U	0.0042	0.0500	mg/l	103	103	80-120	0	20
Batch number: 111966050001A	Sample number(s): 6342225								
Antimony	0.00042 U	0.00042	0.0010	mg/l	109	103	87-110	6	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	109	100	86-111	8	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	105	103	90-113	2	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	105	110	90-114	5	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	102	104	90-118	1	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	107	104	87-113	3	20
Copper	0.00038 U	0.00038	0.0020	mg/l	109	105	90-113	3	20
Lead	0.000080 U	0.00008 0	0.0010	mg/l	103	103	90-115	1	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	109	107	90-113	2	20
Silver	0.000098 U	0.00009 8	0.00050	mg/l	105	105	90-115	0	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	106	113	89-116	6	20
Vanadium	0.00018 U	0.00018	0.00050	mg/l	106	104	89-116	2	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	104	109	90-116	5	20
Batch number: 111966050001B	Sample number(s): 6342225								
Selenium	0.00027 U	0.00027	0.0020	mg/l	103	105	85-114	2	20
Batch number: 111966050001C	Sample number(s): 6342225								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	106	102	89-115	3	20
Batch number: 111966050001D	Sample number(s): 6342225								
Barium	0.00069 U	0.00069	0.0020	mg/l	103	102	88-113	0	20
Batch number: 111995713004	Sample number(s): 6342225								
Mercury	0.000026 U	0.00002 6	0.00020	mg/l	105	106	80-120	1	20
Batch number: 112065708001	Sample number(s): 6342209-6342216,6342218-6342224								
Titanium	0.0710 U	0.0710	1.00	mg/kg	182		40-186		
Batch number: 11194196901C	Sample number(s): 6342225								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	100	100	90-110	0	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	97	97	90-110	0	20
Batch number: 11194281401A	Sample number(s): 6342225								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	105	102	90-110	3	20
Batch number: 11196117101B	Sample number(s): 6342225								
17b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	101	102	90-110	1	20
Batch number: 11198621701A	Sample number(s): 6342225								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	94	97	85-115	3	20
Batch number: 11200621201A	Sample number(s): 6342209-6342216,6342218-6342219								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	104		85-115		
Batch number: 11200621201B	Sample number(s): 6342220-6342224								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	104		85-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255916
Reported: 08/24/11 at 05:42 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11204243201A	Sample number(s): 6342209-6342216,6342218-6342224									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	107		80-120		
Batch number: 11208621201A	Sample number(s): 6342209-6342216,6342218-6342219									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	102		90-110		
Batch number: 11208621201B	Sample number(s): 6342220-6342224									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	102		90-110		
Batch number: 11195020001A	Sample number(s): 6342225									
18b pH by 9040B						100	100	90-110	0	3
Batch number: 11202039403A	Sample number(s): 6342209-6342216									
18a pH by 9045C						100		95-105		
Batch number: 11202039403B	Sample number(s): 6342218-6342224									
18a pH by 9045C						100		95-105		
Batch number: 11201162402A	Sample number(s): 6342209-6342213									
Moisture Content by 160.3						100		80-120		
Batch number: 11201162402B	Sample number(s): 6342214-6342216,6342218-6342224									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: E111961AA	Sample number(s): 6342209,6342211,6342213,6342215 UNSPK: P345448								
1,4-Dioxane	80	86	70-130	14	30				
Batch number: 11200SLH026	Sample number(s): 6342209-6342216,6342218-6342224 UNSPK: 6342209								
Aniline	67	67	35-95	0	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	98	98	65-122	1	30				
Benzo(g,h,i)perylene	96	96	59-127	1	30				
Benzo(k)fluoranthene	102	102	56-132	0	30				
Benzoic acid	30	41	10-173	33*	30				
Benzyl alcohol	94	92	67-115	2	30				
4-Bromophenyl-phenylether	98	94	67-129	4	30				
Butylbenzylphthalate	103	101	73-134	1	30				
Di-n-butylphthalate	104	102	67-123	1	30				
Carbazole	100	96	64-120	3	30				
4-Chloro-3-methylphenol	102	101	76-110	1	30				
4-Chloroaniline	74	73	23-95	1	30				
bis(2-Chloroethoxy)methane	98	93	75-104	5	30				
bis(2-Chloroethyl)ether	93	90	60-116	3	30				
bis(2-Chloroisopropyl)ether	90	88	55-142	2	30				
2-Chloronaphthalene	82	81	50-141	2	30				
2-Chlorophenol	98	95	73-121	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255916
Reported: 08/24/11 at 05:42 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Chlorophenyl-phenylether	97	96	80-109	1	30				
Chrysene	95	93	62-128	2	30				
Dibenz(a,h)anthracene	98	99	65-125	2	30				
Dibenzofuran	96	95	71-112	1	30				
1,2-Dichlorobenzene	91	86	66-108	5	30				
1,3-Dichlorobenzene	89	86	63-109	3	30				
1,4-Dichlorobenzene	88	85	70-100	3	30				
3,3'-Dichlorobenzidine	64	66	16-119	2	30				
2,4-Dichlorophenol	99	97	78-117	2	30				
Diethylphthalate	101	102	66-118	1	30				
2,4-Dimethylphenol	97	95	78-110	1	30				
3,5-Dimethylphenol	101	102	70-130	1	30				
Dimethylphthalate	100	99	64-118	0	30				
4,6-Dinitro-2-methylphenol	25	35	24-116	32*	30				
2,4-Dinitrophenol	12*	18*	20-143	39*	30				
2,4-Dinitrotoluene	99	99	73-113	1	30				
2,6-Dinitrotoluene	104	102	69-123	2	30				
1,2-Diphenylhydrazine	99	96	71-129	3	30				
bis(2-Ethylhexyl)phthalate	103	101	63-122	2	30				
Hexachlorobenzene	95	93	77-114	2	30				
Hexachlorobutadiene	96	89	62-120	7	30				
Hexachlorocyclopentadiene	95	96	10-153	1	30				
Hexachloroethane	89	85	57-109	5	30				
Indeno(1,2,3-cd)pyrene	98	98	61-126	0	30				
Isophorone	98	96	73-102	2	30				
2-Methylphenol	96	98	75-111	2	30				
4-Methylphenol	92	92	71-111	0	30				
2-Nitroaniline	102	100	67-125	1	30				
3-Nitroaniline	98	96	59-122	2	30				
4-Nitroaniline	80	81	52-112	2	30				
Nitrobenzene	96	93	72-106	2	30				
2-Nitrophenol	100	95	74-115	4	30				
4-Nitrophenol	76	78	54-113	2	30				
N-Nitroso-di-n-propylamine	92	89	60-116	3	30				
N-Nitrosodiphenylamine	99	97	86-145	2	30				
Di-n-octylphthalate	116	116	56-126	0	30				
Pentachlorophenol	66	75	28-127	12	30				
Phenol	95	94	58-126	1	30				
Tetralin	60*	50*	70-130	18	30				
1,2,4-Trichlorobenzene	95	90	72-115	5	30				
2,4,5-Trichlorophenol	103	103	78-109	0	30				
2,4,6-Trichlorophenol	104	104	77-115	0	30				
Batch number: 11201SLB026	Sample number(s): 6342215-6342216 UNSPK: 6342215								
N-Nitrosodimethylamine	85	95	70-130	11	30				
Batch number: 11201SLJ026	Sample number(s): 6342209-6342216,6342218-6342224 UNSPK: 6342209								
Acenaphthene	88	89	63-105	1	30				
Acenaphthylene	96	95	67-114	0	30				
Anthracene	103	102	60-122	1	30				
Benzo(a)anthracene	105	107	59-128	2	30				
Benzo(a)pyrene	128	127	45-138	0	30				
Benzo(b)fluoranthene	157*	124	43-155	23	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255916
Reported: 08/24/11 at 05:42 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(g,h,i)perylene	132	135	33-141	2	30				
Benzo(k)fluoranthene	123	133	42-144	8	30				
Butylbenzylphthalate	111	114	57-173	2	30				
Di-n-butylphthalate	89	90	65-148	0	30				
Chrysene	98	99	48-134	1	30				
Dibenz(a,h)anthracene	130	134*	22-133	3	30				
Diethylphthalate	107	106	70-136	1	30				
Dimethylphthalate	108	107	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	104	105	39-167	0	30				
Fluoranthene	110	109	26-166	1	30				
Fluorene	97	96	66-122	2	30				
Indeno(1,2,3-cd)pyrene	132	135	21-143	2	30				
1-Methylnaphthalene	86	84	72-123	3	30				
2-Methylnaphthalene	85	84	64-103	1	30				
Naphthalene	90	89	61-102	1	30				
N-Nitrosodimethylamine	117*	116*	48-113	1	30				
Di-n-octylphthalate	141	141	40-192	0	30				
Phenanthrene	99	96	12-165	4	30				
Pyrene	101	101	15-153	0	30				
Batch number: 111970007A	Sample number(s): 6342215-6342216 UNSPK: 6342215								
25a Formaldehyde 8315A	99	96	80-120	2	50				
Batch number: 111950013A	Sample number(s): 6342218-6342224 UNSPK: P340796								
2,4-D	102	97	17-180	6	35				
Dalapon	36	45	10-125	21	50				
2,4-DB	258*	301*	10-201	15	50				
Dicamba	0*	100	10-190	200*	50				
Dinoseb	0*	0*	10-46	0	35				
2,4-DP (Dichlorprop)	76	70	33-178	9	50				
MCPA	161	122	10-213	27	50				
MCPP (Mecoprop)	73	77	10-184	7	50				
2,4,5-T	1*	16	10-156	18	35				
2,4,5-TP	49	75	24-141	118*	35				
Batch number: 111970013A	Sample number(s): 6342218-6342224 UNSPK: P340796								
Aldrin	0*	0*	16-126	0	50				
Alpha BHC	0*	0*	10-129	0	50				
Beta BHC	0*	0*	14-147	0	50				
Gamma BHC - Lindane	612*	559*	10-140	9	50				
p,p-DDD	0*	0*	16-163	0	50				
p,p-DDE	0*	0*	18-161	0	50				
p,p-DDT	-4084 (2)	1830 (2)	10-176	22	50				
Delta BHC	0*	0*	23-140	0	50				
Dieldrin	3356 (2)	1843 (2)	19-154	13	50				
Endosulfan I	0*	0*	16-137	0	50				
Endosulfan II	2611*	0*	28-154	200*	50				
Endosulfan Sulfate	0*	0*	21-160	0	50				
Endrin	4558*	0*	11-149	200*	50				
Endrin Aldehyde	2742*	2492*	10-148	10	35				
Endrin Ketone	0*	0*	22-165	0	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255916
Reported: 08/24/11 at 05:42 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Heptachlor	0*	0*	13-126	0	50				
Heptachlor Epoxide	6197*	0*	13-157	200*	50				
Methoxychlor	0*	0*	32-147	0	50				
Batch number: 112010009A	Sample number(s): 6342209-6342216,6342218-6342224 UNSPK: 6342209								
PCB-1016	85	92	29-146	7	50				
PCB-1260	111	112	39-149	1	50				
Batch number: 111950002A	Sample number(s): 6342209-6342216,6342218-6342224 UNSPK: 6342209								
Diethylene glycol	52*	54*	59-109	5	20				
Ethylene glycol	75	78	63-107	5	20				
Propylene glycol	79	82	63-107	4	20				
Batch number: 111950018A	Sample number(s): 6342209,6342211,6342213,6342215-6342216,6342218-6342224 UNSPK: 6342209								
Ethanol	88	83	48-130	5	20				
Isopropanol	88	84	12-149	4	20				
Methanol	82	76	43-138	8	20				
Batch number: 111960031A	Sample number(s): 6342225 UNSPK: P341937								
Ethanol	104	108	62-145	4	20				
Isopropanol	100	100	73-131	0	20				
Methanol	96	96	52-159	0	20				
Batch number: 112000028A	Sample number(s): 6342209-6342216,6342218-6342224 UNSPK: 6342209								
EFH (C12-C14)	95	83	49-123	14	20				
EFH (C15-C20)	106	94	49-123	12	20				
EFH (C21-C30)	85	73	49-123	15	20				
EFH (C30 - C40)	68	58	49-123	12	20				
EFH (C8-C11)	86	78	49-123	9	20				
Batch number: 112010017A	Sample number(s): 6342209-6342216,6342218-6342224 UNSPK: 6342209								
m-Terphenyl	84	85	75-125	1	20				
o-Terphenyl	98	99	75-125	1	20				
p-Terphenyl	93	94	75-125	1	20				
Batch number: 111951026001A	Sample number(s): 6342209-6342216,6342218-6342224 UNSPK: 6342209 BKG: 6342209								
Antimony	44*	66*	75-125	32*	20	0.175 J	0.0836 J	71* (1)	20
Arsenic	12 (2)	502 (2)	75-125	42*	20	17.9	15.4	15	20
Beryllium	86	200*	75-125	48*	20	0.765	0.690	10	20
Cadmium	94	140*	75-125	38*	20	0.0461 J	0.0476 J	3 (1)	20
Chromium	86	210*	75-125	37*	20	18.6	16.1	14	20
Cobalt	101	155*	75-125	40*	20	6.46	5.67	13	20
Copper	106	172*	75-125	35*	20	5.33	4.68	13	20
Lead	88	218*	75-125	39*	20	5.43	4.77	13	20
Nickel	104	203*	75-125	38*	20	10.8	9.71	11	20
Silver	101	139*	75-125	33*	20	0.0426 J	0.0491 J	14 (1)	20
Thallium	80	168*	75-125	46*	20	0.282	0.258	9 (1)	20
Vanadium	84	308*	75-125	39*	20	38.2	33.3	14	20
Zinc	54 (2)	287 (2)	75-125	37*	20	45.0	40.5	10	20
Batch number: 111951026001B	Sample number(s): 6342209-6342216,6342218-6342224 UNSPK: 6342209 BKG: 6342209								
Selenium	96	122	75-125	24*	20	0.0757 J	0.0569 U	200* (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255916
Reported: 08/24/11 at 05:42 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111951026001C	Sample number(s): 6342209-6342216,6342218-6342224 UNSPK: 6342209 BKG: 6342209								
Molybdenum	100	152*	75-125	39*	20	0.769	0.731	5	20
Batch number: 111951026001D	Sample number(s): 6342209-6342216,6342218-6342224 UNSPK: 6342209 BKG: 6342209								
Barium	48 (2)	542 (2)	75-125	41*	20	89.8	82.0	9	20
Batch number: 111955708003	Sample number(s): 6342209-6342216,6342218-6342224 UNSPK: 6342209 BKG: 6342209								
Aluminum	1363 (2)	1657 (2)	75-125	2	20	18,800	18,500	1	20
Boron	97	96	84-115	4	20	4.59 J	3.92 J	16 (1)	20
Calcium	106 (2)	106 (2)	75-125	1	20	1,890	1,870	1	20
Iron	-505 (2)	-196 (2)	75-125	2	20	18,200	18,500	2	20
Lithium	96	96	82-114	2	20	22.0	21.3	3	20
Magnesium	101 (2)	111 (2)	75-125	0	20	4,070	4,060	0	20
Manganese	122 (2)	90 (2)	75-125	6	20	242	267	10	20
Phosphorus	89	89	75-125	1	20	152	149	2	20
Potassium	120	130*	75-125	2	20	1,670	1,720	3	20
Sodium	99	100	75-125	2	20	99.7	97.3	2 (1)	20
Strontium	94	93	75-115	3	20	18.2	17.9	1	20
Tin	91	91	80-110	2	20	2.79 J	2.42 J	14 (1)	20
Zirconium	98	98	75-125	3	20	2.48 J	3.22 J	26* (1)	20
Batch number: 111955711002	Sample number(s): 6342209-6342216,6342218-6342224 UNSPK: 6342209 BKG: 6342209								
Mercury	106	105	65-135	2	20	0.0070 U	0.0074 J	200* (1)	20
Batch number: 112065708001	Sample number(s): 6342209-6342216,6342218-6342224 UNSPK: 6342209 BKG: 6342209								
Titanium	249 (2)	208 (2)	75-125	3	20	1,070	1,070	0	20
Batch number: 11194281401A	Sample number(s): 6342225 UNSPK: P342201 BKG: P342201								
3b Cr VI by EPA 7199	111		59-135			5.0 U	5.0 U	0 (1)	20
Batch number: 11200621201A	Sample number(s): 6342209-6342216,6342218-6342219 UNSPK: 6342209 BKG: 6342209								
7a Perchlorate EPA 314.0	114		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11200621201B	Sample number(s): 6342220-6342224 UNSPK: 6342220 BKG: 6342220								
7a Perchlorate EPA 314.0	111		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11204243201A	Sample number(s): 6342209-6342216,6342218-6342224 UNSPK: 6342209 BKG: 6342209								
3a Cr VI by EPA 7199	95		75-125			0.92 J	0.67 J	31* (1)	20
Batch number: 11208621201A	Sample number(s): 6342209-6342216,6342218-6342219 UNSPK: 6342209 BKG: 6342209								
11a Anions by 300.0 - Fluoride	51*		80-120			0.87 J	0.90 J	4 (1)	20
Batch number: 11208621201B	Sample number(s): 6342220-6342224 UNSPK: 6342220 BKG: 6342220								
11a Anions by 300.0 - Fluoride	70*		80-120			1.7	1.5	18 (1)	20
Batch number: 11202039403A	Sample number(s): 6342209-6342216 BKG: 6342209								
18a pH by 9045C						6.80	6.76	1	3
Batch number: 11202039403B	Sample number(s): 6342218-6342224 BKG: 6342218								
18a pH by 9045C						7.32	7.29	0	3

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255916
Reported: 08/24/11 at 05:42 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11201162402A	Sample number(s): 6342209-6342213					BKG: 6342212			
Moisture Content by 160.3						11.0	11.4	4	20
Batch number: 11201162402B	Sample number(s): 6342214-6342216,6342218-6342224					BKG: 6342214			
Moisture Content by 160.3						9.3	8.9	4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111951AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6342209	110	105	98	89
6342211	110	105	99	90
6342213	111	109	99	90
6342215	112	108	98	91
Blank	110	105	100	92
LCS	105	102	104	103
LCSD	104	103	103	103
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111951AA

	Toluene-d8
6342217	102
Blank	102
LCS	104
LCSD	102
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111961AA

	Toluene-d8
6342209	98
6342211	98
6342213	97
6342215	98
Blank	98
LCS	98
LCSD	98
MS	98
MSD	98

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255916
Reported: 08/24/11 at 05:42 PM

Surrogate Quality Control

Limits: 70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y111961AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6342217	102	106	93	90
Blank	103	107	93	92
LCS	104	107	94	94
LCSD	104	107	94	94
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15b NDMA by 1625C
Batch number: 11195WAH026

	N-Nitrosodimethylamine-d6
6342225	113
Blank	75
LCS	84
LCSD	85
Limits:	50-150

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11197WAH026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6342225	131*	100	109
Blank	114	101	112
LCS	117	102	105
LCSD	116	102	104
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11197WAL026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6342225	59	37	96	88	89	82
Blank	64	45	95	92	96	81
LCS	65	44	95	96	98	84
LCSD	70	46	98	101	103	89
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11200SLH026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6342209	89	88	91	84	91	86
6342210	92	93	89	89	93	85
6342211	101	98	87	88	93	86
6342212	93	90	83	84	90	81
6342213	89	88	73	80	83	83

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255916
Reported: 08/24/11 at 05:42 PM

Surrogate Quality Control

6342214	92	91	76	85	90	85
6342215	92	91	84	89	96	80
6342216	87	85	82	84	89	82
6342218	94	93	84	88	91	80
6342219	90	91	80	91	94	79
6342220	94	93	85	85	92	81
6342221	90	94	83	88	99	84
6342222	81	82	74	83	87	72
6342223	91	91	79	86	91	82
6342224	90	90	85	88	96	84
Blank	87	88	89	86	92	82
LCS	99	98	94	93	96	84
MS	96	96	91	90	92	83
MSD	97	94	94	89	92	85
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11201SLB026

	N-Nitrosodimethylamine-d6
6342215	71
6342216	68
Blank	82
LCS	79
MS	63
MSD	62
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11201SLJ026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6342209	98	83	93
6342210	112	94	102
6342211	103	89	100
6342212	111	92	100
6342213	66	56	65
6342214	93	83	93
6342215	129	112	119
6342216	105	69	101
6342218	109	93	92
6342219	100	81	83
6342220	125	106	101
6342221	136*	96	88
6342222	143*	97	87
6342223	188*	100	91
6342224	101	88	87
Blank	107	91	101
LCS	106	90	98
MS	107	90	97
MSD	107	89	99
Limits:	40-130	45-130	45-135

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255916
Reported: 08/24/11 at 05:42 PM

Surrogate Quality Control

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11195A34A

	Trifluorotoluene-F
6342209	77
6342210	78
6342211	81
6342212	75
6342213	78
6342214	83
6342215	86
6342216	87
Blank	85
LCS	89
LCSD	92
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11195C20A

	Trifluorotoluene-F
6342217	88
Blank	88
LCS	116
LCSD	113
Limits:	63-135

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 111940010A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6342225	96	73
Blank	99	95
LCS	98	75
LCSD	101	93
Limits:	30-150	45-120

Analysis Name: 25b Formaldehyde 8315A
Batch number: 111950003A

	Butyraldehyde
6342225	113
Blank	108
LCS	106
LCSD	99
Limits:	45-145

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 111950013A

	2,4-Dichlorophenylacetic acid
6342218	94

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255916
Reported: 08/24/11 at 05:42 PM

Surrogate Quality Control

6342219	60
6342220	103
6342221	105
6342222	92
6342223	73
6342224	90
Blank	85
LCS	90
MS	60
MSD	185*
Limits:	36-156

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111970007A

	Butyraldehyde
6342215	101
6342216	100
Blank	101
LCS	99
MS	98
MSD	95
Limits:	64-126

Analysis Name: 12b Pesticides by 8081A
Batch number: 111970010A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6342225	129	127
Blank	117	113
LCS	117	98
LCSD	120	117
Limits:	52-141	40-144

Analysis Name: 12a Pesticides by 8081A
Batch number: 111970013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6342218	69	106
6342219	536*	6722*
6342220	100	93
6342221	126	897*
6342222	82	323*
6342223	59	0*
6342224	37*	0*
Blank	52	106
LCS	56	105
MS	110	278*
MSD	104	0*
Limits:	50-130	20-120

Analysis Name: 16b Energetics by 8330A
Batch number: 111990020A

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255916
Reported: 08/24/11 at 05:42 PM

Surrogate Quality Control

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 112000014A

	2-Nitro-m-xylene	2,4-Dichlorophenylacetic acid
6342225	88	85
Blank	88	123
LCS	97	104
LCSD	92	109
Limits:	50-134	35-144

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112010009A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6342209	86	97
6342210	114	101
6342211	93	98
6342212	96	90
6342213	80	85
6342214	91	93
6342215	95	78
6342216	89	92
6342218	93	89
6342219	61	106
6342220	90	79
6342221	36*	55
6342222	17*	15*
6342223	93	89
6342224	90	77
Blank	92	92
LCS	100	97
LCSD	92	105
MS	86	100
MSD	93	101
Limits:	53-139	45-120

Analysis Name: 21a Glycols by 8015B
Batch number: 111950002A

	Tetramethylene glycol
6342209	81
6342210	90
6342211	91
6342212	84
6342213	89

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255916
Reported: 08/24/11 at 05:42 PM

Surrogate Quality Control

6342214	88
6342215	91
6342216	88
6342218	86
6342219	86
6342220	83
6342221	90
6342222	92
6342223	98
6342224	90
Blank	113
LCS	98
MS	90
MSD	89

Limits: 29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 111950018A

Acetone

6342209	84
6342211	81
6342213	87
6342215	87
6342216	85
6342218	97
6342219	120
6342220	113
6342221	99
6342222	104
6342223	89
6342224	103
Blank	94
LCS	97
MS	83
MSD	82

Limits: 42-138

Analysis Name: 19b Alcohols by 8015B
Batch number: 111960031A

Acetone

6342225	99
Blank	103
LCS	95
MS	97
MSD	102

Limits: 54-147

Analysis Name: 19a Alcohols by 8015B
Batch number: 111960033A

Acetone

6342210	80

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Quality Control Summary

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Reported: 08/24/11 at 05:42 PM

Surrogate Quality Control

6342212	81	
6342214	83	
Blank	93	
LCS	96	
LCSD	95	
Limits:	42-138	

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 111970005A

	Chlorobenzene	Orthoterphenyl
6342225	89	83
Blank	86	81
LCS	81	94
LCSD	84	99
Limits:	28-152	52-131

Analysis Name: 20b Terphenyls by 8015B
Batch number: 111970015A

	n-Triacontane-d62
6342225	72
Blank	76
LCS	75
LCSD	75
Limits:	50-150

Analysis Name: 21b Glycols by 8015B
Batch number: 111990001A

	Tetramethylene glycol
6342225	85
Blank	101
LCS	110
LCSD	111
Limits:	77-119

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112000028A

	Chlorobenzene	Orthoterphenyl
6342209	79	95
6342210	93	105
6342211	68	83
6342212	81	99
6342213	81	97
6342214	77	93
6342215	76	101
6342216	78	96
6342218	78	95
6342219	75	105
6342220	72	90
6342221	91	112

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Quality Control Summary

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Reported: 08/24/11 at 05:42 PM

Surrogate Quality Control

6342222	99	120
6342223	92	123
6342224	79	97
Blank	82	93
LCS	83	98
MS	84	97
MSD	81	94
Limits:	37-125	47-145

Analysis Name: 20a Terphenyls by 8015B
Batch number: 112010017A

	n-Triacontane-d62
6342209	83
6342210	84
6342211	80
6342212	81
6342213	76
6342214	82
6342215	136
6342216	82
6342218	75
6342219	9*
6342220	82
6342221	339*
6342222	0*
6342223	21*
6342224	75
Blank	87
LCS	84
MS	84
MSD	84
Limits:	50-150

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 / 1255916 / 6342209-25

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-136-SA6-SB-4.5	07.12.11	0820	SOIL	NONE	5-Encores										X	X	X										
SL-136-SA6-SB-4.0-5.0	07.12.11	0825	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-136-SA6-SB-9.5	07.12.11	0830	SOIL	NONE	1-Encores												X										
SL-136-SA6-SB-9.0-10.0	07.12.11	0835	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-139-SA6-SB-4.5	07.12.11	0940	SOIL	NONE	5-Encores										X	X	X										
SL-139-SA6-SB-4.0-5.0	07.12.11	0945	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-139-SA6-SB-9.5	07.12.11	0950	SOIL	NONE	1-Encores												X										
SL-139-SA6-SB-9.0-10.0	07.12.11	0955	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-275-SA6-SB-4.5	07.12.11	1150	SOIL	NONE	5-Encores										X	X	X										
SL-275-SA6-SB-4.0-5.0	07.12.11	1155	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-275-SA6-SB-9.5	07.12.11	1200	SOIL	NONE	1-Encores												X										
SL-275-SA6-SB-9.0-10.0	07.12.11	1205	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-276-SA6-SB-4.5	07.12.11	1420	SOIL	NONE	5-Encores										X	X	X										
SL-276-SA6-SB-4.0-5.0	07.12.11	1425	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X		X	X			X	X	X	
SL-276-SA6-SB-9.5	07.12.11	1430	SOIL	NONE	1-Encores												X										
SL-276-SA6-SB-9.0-10.0	07.12.11	1435	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X		X	X			X	X	X	
TB-071211	07.12.11	0800	WATER	NONE	4-40mL vials										X	X	X										

Relinquished by: (*Signature*) — Date/Time: 07/12/2011 / 1600 — Received for Laboratory by: (*Signature*)

Received by: (*Signature*) Brigitte Lehman — Date/Time: 7/13/11 0950 — Airbill No.(s): 8754 3340 5359,5267,5304,5348

Laboratory: Lancaster Laboratories, Inc.

13013 / 1255916 / 6342209-25

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA8) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-289-SA6-SS-0.0-0.5	07.11.11	1550	SOIL	NONE	1-SS Sleeve			X	X																	
SL-289-SA6-SS-0.0-0.5	07.11.11	1550	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	Primary,alcohols,glycols,terphenyls,TPH only
SL-291-SA6-SS-0.0-0.5	07.11.11	1529	SOIL	NONE	1-SS Sleeve			X	X																	
SL-291-SA6-SS-0.0-0.5	07.11.11	1529	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	Primary,alcohols,glycols,terphenyls,TPH only
SL-098-SA6-SS-0.0-0.5	07.12.11	0842	SOIL	NONE	1-SS Sleeve			X	X																	
SL-098-SA6-SS-0.0-0.5	07.12.11	0842	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	Primary,alcohols,glycols,terphenyls,TPH only
SL-109-SA6-SS-0.0-0.5	07.12.11	0943	SOIL	NONE	1-SS Sleeve			X	X																	
SL-109-SA6-SS-0.0-0.5	07.12.11	0943	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	Primary,alcohols,glycols,terphenyls,TPH only
SL-110-SA6-SS-0.0-0.5	07.12.11	1020	SOIL	NONE	1-SS Sleeve			X	X																	
SL-110-SA6-SS-0.0-0.5	07.12.11	1020	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	Primary,alcohols,glycols,terphenyls,TPH only
SL-113-SA6-SS-0.0-0.5	07.12.11	1208	SOIL	NONE	1-SS Sleeve			X	X																	
SL-113-SA6-SS-0.0-0.5	07.12.11	1208	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	Primary,alcohols,glycols,terphenyls,TPH only
SL-290-SA6-SS-0.0-0.5	07.12.11	0800	SOIL	NONE	1-SS Sleeve			X	X																	
SL-290-SA6-SS-0.0-0.5	07.12.11	0800	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	Primary,alcohols,glycols,terphenyls,TPH only

Relinquished by: (Signature) — Date/Time: 07/12/2011 / 1600 — Received for Laboratory by: (Signature)

Laboratory: Lancaster Laboratories, Inc.

Received by: (Signature) — Date/Time: 7/13/11 0930 — Airbill No.(s): 8754 3340 5359,5267,5304, 5348

13013 | 1255916 / 6342209-25

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.							*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	*Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																												
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																							
EB-SA6-SS-071211	07.12.11	1300	WATER	NONE	11-1 liter ambers			X	X	X					X	X	X			X	X		X				
EB-SA6-SS-071211	07.12.11	1300	WATER	NONE	1-500 mL poly		X				X	X	X														
EB-SA6-SS-071211	07.12.11	1300	WATER	HNO3	1-500 mL poly	X																					
EB-SA6-SS-071211	07.12.11	1300	WATER	NaOH	1-500 mL glass																		X				
EB-SA6-SS-071211	07.12.11	1300	WATER	NONE	1-250 mL glass															X							
EB-SA6-SS-071211	07.12.11	1300	WATER	HCl	2-40 mL vials																					X	
EB-SA6-SS-071211	07.12.11	1300	WATER	NONE	4-40 mL vials														X						X		Laboratory:
	07/12/2011 / 1600																										Lancaster Laboratories, Inc.
Received by: (Signature) Suyette Lehman	Date/Time 7/13/11 0958		Airbill No.(s) 8754 3340 5359,5267,5304, 5348																								

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/13/2011
Group Number: 1255950
SDG: DX111
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-291-SA6-SS-0.0-0.5 Soil	6342330
SL-098-SA6-SS-0.0-0.5 Soil	6342331
SL-109-SA6-SS-0.0-0.5 Soil	6342332
SL-110-SA6-SS-0.0-0.5 Soil	6342333
SL-113-SA6-SS-0.0-0.5 Soil	6342334
SL-290-SA6-SS-0.0-0.5 Soil	6342335
EB-SA6-SS-071211 Water	6342336

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-291-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-291-SA6-SS-0.0-0.5

LLI Sample # SW 6342330
LLI Group # 1255950
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:29

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2910 SDG#: DX111-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.93	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-291-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-291-SA6-SS-0.0-0.5

LLI Sample # SW 6342330
LLI Group # 1255950
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:29

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2910 SDG#: DX111-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	1.55	B	0.0399	0.988	1
11031	12378-PeCDD	40321-76-4	1.69	JB	0.102	4.94	1
11031	123478-HxCDD	39227-28-6	2.61	JB	0.0898	4.94	1
11031	123678-HxCDD	57653-85-7	8.48	B	0.0904	4.94	1
11031	123789-HxCDD	19408-74-3	5.51	B	0.0851	4.94	1
11031	1234678-HpCDD	35822-46-9	224	B	0.147	4.94	1
11031	OCDD	3268-87-9	1,880	B	0.111	9.88	1
11650	2378-TCDF-Conf	51207-31-9	3.61	C	0.110	0.988	1
11031	12378-PeCDF	57117-41-6	3.85	JB	0.139	4.94	1
11031	23478-PeCDF	57117-31-4	5.73	B	0.126	4.94	1
11031	123478-HxCDF	70648-26-9	12.1	B	0.0926	4.94	1
11031	123678-HxCDF	57117-44-9	3.36	JB	0.0843	4.94	1
11031	123789-HxCDF	72918-21-9	0.943	JB	0.0781	4.94	1
11031	234678-HxCDF	60851-34-5	3.80	JB	0.0724	4.94	1
11031	1234678-HpCDF	67562-39-4	41.5	B	0.0710	4.94	1
11031	1234789-HpCDF	55673-89-7	3.14	JB	0.0789	4.94	1
11031	OCDF	39001-02-0	51.0	B	0.0521	9.88	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-2378-TCDF-Conf	73	24 - 169
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	62	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-291-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-291-SA6-SS-0.0-0.5

LLI Sample # SW 6342330
LLI Group # 1255950
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:29

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2910 SDG#: DX111-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-291-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-291-SA6-SS-0.0-0.5

LLI Sample # SW 6342330
LLI Group # 1255950
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:29

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2910 SDG#: DX111-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11206002	07/26/2011 19:00	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11206002	07/28/2011 11:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11206002	07/25/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402B	07/20/2011 20:25	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-098-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SS-0.0-0.5

LLI Sample # SW 6342331
LLI Group # 1255950
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:42

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0980 SDG#: DX111-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-098-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SS-0.0-0.5

LLI Sample # SW 6342331
LLI Group # 1255950
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:42

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0980 SDG#: DX111-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0208	JBQ	0.0128	1.01	1
11031	12378-PeCDD	40321-76-4	0.124	JBQ	0.0213	5.05	1
11031	123478-HxCDD	39227-28-6	0.177	JB	0.0503	5.05	1
11031	123678-HxCDD	57653-85-7	0.490	JB	0.0513	5.05	1
11031	123789-HxCDD	19408-74-3	0.341	JB	0.0477	5.05	1
11031	1234678-HpCDD	35822-46-9	13.2	B	0.0423	5.05	1
11031	OCDD	3268-87-9	144	B	0.0385	10.1	1
11031	2378-TCDF	51207-31-9	0.292	J	0.0688	1.01	1
11031	12378-PeCDF	57117-41-6	0.923	JB	0.0412	5.05	1
11031	23478-PeCDF	57117-31-4	0.0393	U	0.0393	5.05	1
11031	123478-HxCDF	70648-26-9	0.491	JB	0.0380	5.05	1
11031	123678-HxCDF	57117-44-9	0.247	JBQ	0.0368	5.05	1
11031	123789-HxCDF	72918-21-9	0.0892	JB	0.0388	5.05	1
11031	234678-HxCDF	60851-34-5	0.256	JB	0.0356	5.05	1
11031	1234678-HpCDF	67562-39-4	2.44	JB	0.0535	5.05	1
11031	1234789-HpCDF	55673-89-7	0.320	JBQ	0.0658	5.05	1
11031	OCDF	39001-02-0	4.58	JB	0.109	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-098-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SS-0.0-0.5

LLI Sample # SW 6342331
LLI Group # 1255950
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:42

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0980 SDG#: DX111-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-098-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SS-0.0-0.5

LLI Sample # SW 6342331
LLI Group # 1255950
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:42

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0980 SDG#: DX111-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11206002	07/26/2011 19:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11206002	07/25/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402B	07/20/2011 20:25	Scott W Freisher	1

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Analysis Report

Sample Description: SL-109-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA6-SS-0.0-0.5

LLI Sample # SW 6342332
LLI Group # 1255950
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:43

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1090 SDG#: DX111-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-109-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA6-SS-0.0-0.5

LLI Sample # SW 6342332
LLI Group # 1255950
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:43

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1090 SDG#: DX111-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0776	JB	0.0196	1.02	1
11031	12378-PeCDD	40321-76-4	0.548	JB	0.0343	5.08	1
11031	123478-HxCDD	39227-28-6	0.585	JB	0.0774	5.08	1
11031	123678-HxCDD	57653-85-7	2.87	JB	0.0807	5.08	1
11031	123789-HxCDD	19408-74-3	1.11	JB	0.0769	5.08	1
11031	1234678-HpCDD	35822-46-9	103	B	0.133	5.08	1
11031	OCDD	3268-87-9	1,150	B	0.138	10.2	1
11650	2378-TCDF-Conf	51207-31-9	1.33	C	0.0831	1.02	1
11031	12378-PeCDF	57117-41-6	9.35	B	0.0947	5.08	1
11031	23478-PeCDF	57117-31-4	2.49	JB	0.0863	5.08	1
11031	123478-HxCDF	70648-26-9	1.58	JB	0.0855	5.08	1
11031	123678-HxCDF	57117-44-9	0.951	JB	0.0852	5.08	1
11031	123789-HxCDF	72918-21-9	0.216	JBQ	0.0893	5.08	1
11031	234678-HxCDF	60851-34-5	1.22	JB	0.0782	5.08	1
11031	1234678-HpCDF	67562-39-4	33.3	B	0.100	5.08	1
11031	1234789-HpCDF	55673-89-7	1.72	JB	0.126	5.08	1
11031	OCDF	39001-02-0	241	B	0.138	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-2378-TCDF-Conf	75	24 - 169
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	49	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	62	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	45	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-109-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA6-SS-0.0-0.5

LLI Sample # SW 6342332
LLI Group # 1255950
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:43

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1090 SDG#: DX111-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-109-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA6-SS-0.0-0.5

LLI Sample # SW 6342332
LLI Group # 1255950
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:43

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1090 SDG#: DX111-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11206002	07/26/2011 20:53	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11206002	07/28/2011 13:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11206002	07/25/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402B	07/20/2011 20:25	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-110-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA6-SS-0.0-0.5

LLI Sample # SW 6342333
LLI Group # 1255950
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 10:20

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1100 SDG#: DX111-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-110-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA6-SS-0.0-0.5

LLI Sample # SW 6342333
LLI Group # 1255950
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 10:20

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1100 SDG#: DX111-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.249 JB	0.0165	1.01	1
11031	12378-PeCDD	40321-76-4	2.85 JB	0.0607	5.05	1
11031	123478-HxCDD	39227-28-6	5.07 B	0.111	5.05	1
11031	123678-HxCDD	57653-85-7	22.3 B	0.114	5.05	1
11031	123789-HxCDD	19408-74-3	10.9 B	0.113	5.05	1
11031	1234678-HpCDD	35822-46-9	1,020 B	0.322	5.05	1
11031	OCDD	3268-87-9	15,000 EB	0.309	10.1	1
11031	2378-TCDF	51207-31-9	0.619 J	0.0977	1.01	1
11031	12378-PeCDF	57117-41-6	1.68 JB	0.0743	5.05	1
11031	23478-PeCDF	57117-31-4	2.14 JB	0.0710	5.05	1
11031	123478-HxCDF	70648-26-9	3.66 JB	0.0948	5.05	1
11031	123678-HxCDF	57117-44-9	4.05 JB	0.0874	5.05	1
11031	123789-HxCDF	72918-21-9	0.865 JB	0.0942	5.05	1
11031	234678-HxCDF	60851-34-5	4.64 JB	0.0795	5.05	1
11031	1234678-HpCDF	67562-39-4	78.2 B	0.108	5.05	1
11031	1234789-HpCDF	55673-89-7	8.81 B	0.120	5.05	1
11031	OCDF	39001-02-0	250 B	0.102	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	42	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	69	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: SL-110-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA6-SS-0.0-0.5

LLI Sample # SW 6342333
LLI Group # 1255950
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 10:20

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1100 SDG#: DX111-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	55	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	36	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-110-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA6-SS-0.0-0.5

LLI Sample # SW 6342333
LLI Group # 1255950
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 10:20

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1100 SDG#: DX111-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11206002	07/26/2011 21:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11206002	07/25/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402B	07/20/2011 20:25	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-113-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA6-SS-0.0-0.5

LLI Sample # SW 6342334
LLI Group # 1255950
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 12:08

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1130 SDG#: DX111-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-113-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA6-SS-0.0-0.5

LLI Sample # SW 6342334
LLI Group # 1255950
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 12:08

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1130 SDG#: DX111-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.170 JB	0.0221	1.03	1
11031	12378-PeCDD	40321-76-4	2.24 JB	0.0716	5.15	1
11031	123478-HxCDD	39227-28-6	3.53 JB	0.177	5.15	1
11031	123678-HxCDD	57653-85-7	27.9 B	0.189	5.15	1
11031	123789-HxCDD	19408-74-3	8.16 B	0.180	5.15	1
11031	1234678-HpCDD	35822-46-9	948 B	0.403	5.15	1
11031	OCDD	3268-87-9	18,800 EB	0.407	10.3	1
11031	2378-TCDF	51207-31-9	0.516 J	0.0930	1.03	1
11031	12378-PeCDF	57117-41-6	0.350 JBQ	0.0675	5.15	1
11031	23478-PeCDF	57117-31-4	2.05 JB	0.0614	5.15	1
11031	123478-HxCDF	70648-26-9	5.57 B	0.110	5.15	1
11031	123678-HxCDF	57117-44-9	4.13 JB	0.106	5.15	1
11031	123789-HxCDF	72918-21-9	1.12 JB	0.136	5.15	1
11031	234678-HxCDF	60851-34-5	6.90 B	0.114	5.15	1
11031	1234678-HpCDF	67562-39-4	122 B	0.161	5.15	1
11031	1234789-HpCDF	55673-89-7	14.7 B	0.192	5.15	1
11031	OCDF	39001-02-0	401 B	0.296	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	65	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	56	23 - 140
13C12-OCDD	34	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	58	24 - 185
13C12-23478-PeCDF	57	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	67	28 - 136

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-113-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA6-SS-0.0-0.5

LLI Sample # SW 6342334
LLI Group # 1255950
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 12:08

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1130 SDG#: DX111-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	52	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	23	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-113-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA6-SS-0.0-0.5

LLI Sample # SW 6342334
LLI Group # 1255950
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 12:08

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1130 SDG#: DX111-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11206002	07/26/2011 22:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11206002	07/25/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402B	07/20/2011 20:25	Scott W Freisher	1

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Analysis Report

Sample Description: SL-290-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-290-SA6-SS-0.0-0.5

LLI Sample # SW 6342335
LLI Group # 1255950
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:00

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2900 SDG#: DX111-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.77	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-290-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-290-SA6-SS-0.0-0.5

LLI Sample # SW 6342335
LLI Group # 1255950
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:00

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2900 SDG#: DX111-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0281	JBQ	0.0161	1.00	1
11031	12378-PeCDD	40321-76-4	0.130	JB	0.0343	5.00	1
11031	123478-HxCDD	39227-28-6	0.160	JBQ	0.0541	5.00	1
11031	123678-HxCDD	57653-85-7	0.498	JB	0.0569	5.00	1
11031	123789-HxCDD	19408-74-3	0.405	JB	0.0551	5.00	1
11031	1234678-HpCDD	35822-46-9	13.1	B	0.0900	5.00	1
11031	OCDD	3268-87-9	144	B	0.145	10.0	1
11031	2378-TCDF	51207-31-9	0.296	J	0.0764	1.00	1
11031	12378-PeCDF	57117-41-6	1.59	JB	0.0524	5.00	1
11031	23478-PeCDF	57117-31-4	0.410	JB	0.0476	5.00	1
11031	123478-HxCDF	70648-26-9	0.803	JBQ	0.0513	5.00	1
11031	123678-HxCDF	57117-44-9	0.246	JB	0.0474	5.00	1
11031	123789-HxCDF	72918-21-9	0.126	JBQ	0.0588	5.00	1
11031	234678-HxCDF	60851-34-5	0.222	JB	0.0491	5.00	1
11031	1234678-HpCDF	67562-39-4	2.32	JB	0.0619	5.00	1
11031	1234789-HpCDF	55673-89-7	0.315	JBQ	0.0907	5.00	1
11031	OCDF	39001-02-0	4.26	JB	0.121	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	60	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	57	23 - 140
13C12-OCDD	43	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	54	24 - 185
13C12-23478-PeCDF	52	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	58	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	56	28 - 143
13C12-1234789-HpCDF	46	26 - 138
13C12-OCDF	36	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-290-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-290-SA6-SS-0.0-0.5

LLI Sample # SW 6342335
LLI Group # 1255950
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:00

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2900 SDG#: DX111-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-290-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-290-SA6-SS-0.0-0.5

LLI Sample # SW 6342335
LLI Group # 1255950
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:00

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2900 SDG#: DX111-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11206002	07/26/2011 23:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11206002	07/25/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402B	07/20/2011 20:25	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB-SA6-SS-071211 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-071211

LLI Sample # WW 6342336
LLI Group # 1255950
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 13:00

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EBSA6 SDG#: DX111-07EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.413	U	0.413	2.16	1
10915	12378-PeCDD	40321-76-4	0.383	U	0.383	10.8	1
10915	123478-HxCDD	39227-28-6	0.405	JBQ	0.267	10.8	1
10915	123678-HxCDD	57653-85-7	0.277	U	0.277	10.8	1
10915	123789-HxCDD	19408-74-3	0.642	JBQ	0.275	10.8	1
10915	1234678-HpCDD	35822-46-9	5.28	JBQ	0.459	10.8	1
10915	OCDD	3268-87-9	10.9	JB	0.416	21.6	1
10915	2378-TCDF	51207-31-9	0.340	U	0.340	2.16	1
10915	12378-PeCDF	57117-41-6	0.183	JBQ	0.182	10.8	1
10915	23478-PeCDF	57117-31-4	0.906	JBQ	0.155	10.8	1
10915	123478-HxCDF	70648-26-9	0.514	JBQ	0.171	10.8	1
10915	123678-HxCDF	57117-44-9	0.288	JBQ	0.168	10.8	1
10915	123789-HxCDF	72918-21-9	0.256	JBQ	0.192	10.8	1
10915	234678-HxCDF	60851-34-5	0.597	JBQ	0.166	10.8	1
10915	1234678-HpCDF	67562-39-4	1.25	JB	0.117	10.8	1
10915	1234789-HpCDF	55673-89-7	0.146	U	0.146	10.8	1
10915	OCDF	39001-02-0	1.17	JBQ	0.426	21.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	54	25 - 164
13C12-12378-PeCDD	58	25 - 181
13C12-123478-HxCDD	55	32 - 141
13C12-123678-HxCDD	58	28 - 130
13C12-123789-HxCDD	56	28 - 130
13C12-1234678-HpCDD	57	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	62	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	55	26 - 123
13C12-234678-HxCDF	57	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	57	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	55	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA6-SS-071211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-071211

LLI Sample # WW 6342336
LLI Group # 1255950
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 13:00

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EBSA6 SDG#: DX111-07EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11199002	07/21/2011 23:10	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11199002	07/19/2011 11:10	Ginelle L Haines	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255950
Reported: 08/12/11 at 09:14 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11201162402B	Sample number(s): 6342330-6342335									
Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11199002	Sample number(s): 6342336									
2378-TCDD	0.300	U	0.300	2.00	pg/l	105		67-158		
12378-PeCDD	0.295	J	0.278	10.0	pg/l	103		70-142		
123478-HxCDD	0.272	J	0.193	10.0	pg/l	102		70-164		
123678-HxCDD	0.625	J	0.192	10.0	pg/l	101		76-134		
123789-HxCDD	0.898	J	0.198	10.0	pg/l	102		64-162		
1234678-HpCDD	4.77	J	0.334	10.0	pg/l	100		70-140		
OCDD	9.97	J	0.300	20.0	pg/l	102		78-144		
2378-TCDF	0.232	U	0.232	2.00	pg/l	99		75-158		
12378-PeCDF	0.321	J	0.135	10.0	pg/l	103		80-134		
23478-PeCDF	0.804	J	0.130	10.0	pg/l	100		68-160		
123478-HxCDF	0.447	J	0.134	10.0	pg/l	98		72-134		
123678-HxCDF	0.360	J	0.136	10.0	pg/l	96		84-130		
123789-HxCDF	0.596	J	0.149	10.0	pg/l	97		78-130		
234678-HxCDF	0.382	J	0.129	10.0	pg/l	97		70-156		
1234678-HpCDF	1.11	J	0.0973	10.0	pg/l	99		82-122		
1234789-HpCDF	0.617	J	0.122	10.0	pg/l	99		78-138		
OCDF	1.09	J	0.336	20.0	pg/l	100		63-170		
Batch number: 11206002	Sample number(s): 6342330-6342335									
2378-TCDD	0.0186	J	0.00990	1.00	ng/kg	77		67-158		
12378-PeCDD	0.0147	J	0.00960	5.00	ng/kg	84		70-142		
123478-HxCDD	0.0136	J	0.0107	5.00	ng/kg	83		70-164		
123678-HxCDD	0.0239	J	0.0110	5.00	ng/kg	84		76-134		
123789-HxCDD	0.0359	J	0.0102	5.00	ng/kg	84		64-162		
1234678-HpCDD	0.481	J	0.0187	5.00	ng/kg	85		70-140		
OCDD	1.94	J	0.0177	10.0	ng/kg	85		78-144		
2378-TCDF	0.00880	U	0.00880	1.00	ng/kg	87		75-158		
2378-TCDF-Conf	0.0263	J	0.0160	1.00	ng/kg	87		75-158		
12378-PeCDF	0.0222	J	0.00590	5.00	ng/kg	84		80-134		
23478-PeCDF	0.0584	J	0.00610	5.00	ng/kg	84		68-160		
123478-HxCDF	0.0540	J	0.0105	5.00	ng/kg	86		72-134		
123678-HxCDF	0.0336	J	0.00900	5.00	ng/kg	86		84-130		
123789-HxCDF	0.0460	J	0.0105	5.00	ng/kg	86		78-130		
234678-HxCDF	0.0540	J	0.00910	5.00	ng/kg	86		70-156		
1234678-HpCDF	0.220	J	0.00800	5.00	ng/kg	85		82-122		
1234789-HpCDF	0.0514	J	0.0126	5.00	ng/kg	86		78-138		
OCDF	0.225	J	0.0175	10.0	ng/kg	88		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255950
Reported: 08/12/11 at 09:14 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11201162402B	Sample number(s): 6342330-6342335					BKG: P342214			
Moisture Content by 160.3						9.3	8.9	4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11199002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6342336	54	64	55	55	57	58
Blank	68	74	66	67	70	70
OPR	70	85	72	74	74	73
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6342336	57	57	55	58	55	58
Blank	67	68	65	68	67	71
OPR	74	75	72	77	71	70
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6342336	56	57	55	61	62
Blank	68	70	66	76	78
OPR	71	76	73	79	82
Limits:	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11206002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6342330	75	63	58	62	68	77
6342331	79	65	65	66	70	75
6342332	76	63	68	67	68	70
6342333	78	63	60	62	69	67
6342334	79	57	67	67	67	63
6342335	65	52	57	60	58	56
Blank	77	64	63	71	71	73
OPR	62	51	55	63	60	56

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255950
Reported: 08/12/11 at 09:14 AM

Surrogate Quality Control

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6342330	62	69	66	69	73	72
6342331	70	70	66	74	77	75
6342332	61	59	45	71	76	73
6342333	55	56	36	71	77	73
6342334	52	48	23	65	76	73
6342335	56	46	36	60	66	66
Blank	85	65	59	77	83	81
OPR	77	53	49	62	72	72
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6342330	75	74	71	66	62	73
6342331	78	80	74	68	67	
6342332	75	66	49	75	62	75
6342333	77	64	42	67	63	
6342334	74	56	34	68	58	
6342335	66	57	43	55	54	
Blank	84	85	79	63	69	69
OPR	72	73	68	50	56	50
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013/1255950/342330-36

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS										SS ONLY		SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C. Samplers Signatures:							*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																								
SL-289-SA6-SS-0.0-0.5	07.11.11	1550	SOIL	NONE	1-SS Sleeve				X	X																			
SL-289-SA6-SS-0.0-0.5	07.11.11	1550	SOIL	NONE	2-16 oz. jars	X	X				X	X	X	X		X	X	X						X	X	X	Primary, alcohols, glycols, terphenyls, TPH only	
SL-291-SA6-SS-0.0-0.5	07.11.11	1529	SOIL	NONE	1-SS Sleeve				X	X																			
SL-291-SA6-SS-0.0-0.5	07.11.11	1529	SOIL	NONE	2-16 oz. jars	X	X				X	X	X	X		X	X	X						X	X	X	Primary, alcohols, glycols, terphenyls, TPH only	
SL-098-SA6-SS-0.0-0.5	07.12.11	0842	SOIL	NONE	1-SS Sleeve				X	X																			
SL-098-SA6-SS-0.0-0.5	07.12.11	0842	SOIL	NONE	2-16 oz. jars	X	X				X	X	X	X		X	X	X						X	X	X	Primary, alcohols, glycols, terphenyls, TPH only	
SL-109-SA6-SS-0.0-0.5	07.12.11	0943	SOIL	NONE	1-SS Sleeve				X	X																			
SL-109-SA6-SS-0.0-0.5	07.12.11	0943	SOIL	NONE	2-16 oz. jars	X	X				X	X	X	X		X	X	X						X	X	X	Primary, alcohols, glycols, terphenyls, TPH only	
SL-110-SA6-SS-0.0-0.5	07.12.11	1020	SOIL	NONE	1-SS Sleeve				X	X																			
SL-110-SA6-SS-0.0-0.5	07.12.11	1020	SOIL	NONE	2-16 oz. jars	X	X				X	X	X	X		X	X	X						X	X	X	Primary, alcohols, glycols, terphenyls, TPH only	
SL-113-SA6-SS-0.0-0.5	07.12.11	1208	SOIL	NONE	1-SS Sleeve				X	X																			
SL-113-SA6-SS-0.0-0.5	07.12.11	1208	SOIL	NONE	2-16 oz. jars	X	X				X	X	X	X		X	X	X						X	X	X	Primary, alcohols, glycols, terphenyls, TPH only	
SL-290-SA6-SS-0.0-0.5	07.12.11	0800	SOIL	NONE	1-SS Sleeve				X	X																			
SL-290-SA6-SS-0.0-0.5	07.12.11	0800	SOIL	NONE	2-16 oz. jars	X	X				X	X	X	X		X	X	X						X	X	X	Primary, alcohols, glycols, terphenyls, TPH only	
Relinquished by: (Signature)	Date/Time 07/12/2011 / 1600		Received for Laboratory by: (Signature)																								Laboratory: Lancaster Laboratories, Inc.	
Received by: (Signature)	Date/Time 7/13/11 0950		Airbill No.(s) 8754 3340 5359,5267,5304, 5348																										

13013 / 1255950 / 6342330-36

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other instructions and Notes
EB-SA6-SS-071211	07.12.11	1300	WATER	NONE	11-1 liter ambers			X	X	X					X	X	X			X	X		X			
EB-SA6-SS-071211	07.12.11	1300	WATER	NONE	1-500 mL poly		X				X	X	X													
EB-SA6-SS-071211	07.12.11	1300	WATER	HNO3	1-500 mL poly	X																				
EB-SA6-SS-071211	07.12.11	1300	WATER	NaOH	1-500 mL glass																	X				
EB-SA6-SS-071211	07.12.11	1300	WATER	NONE	1-250 mL glass														X							
EB-SA6-SS-071211	07.12.11	1300	WATER	HCl	2-40 mL vials																				X	
EB-SA6-SS-071211	07.12.11	1300	WATER	NONE	4-40 mL vials													X						X		Laboratory:
	07/12/2011 / 1600																									Lancaster Laboratories, Inc.

Received by: (Signature) Date/Time Airbill No.(s)
7/13/11 0950 8754 3340 5359,5267,5304, 5348

13013/ 1255950/ 6342330-36

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other instructions and Notes
SL-136-SA6-SB-4.5	07.12.11	0820	SOIL	NONE	5-Encores										X	X	X										
SL-136-SA6-SB-4.0-5.0	07.12.11	0825	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-136-SA6-SB-9.5	07.12.11	0830	SOIL	NONE	1-Encores												X										
SL-136-SA6-SB-9.0-10.0	07.12.11	0835	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-139-SA6-SB-4.5	07.12.11	0940	SOIL	NONE	5-Encores										X	X	X										
SL-139-SA6-SB-4.0-5.0	07.12.11	0945	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-139-SA6-SB-9.5	07.12.11	0950	SOIL	NONE	1-Encores												X										
SL-139-SA6-SB-9.0-10.0	07.12.11	0955	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-275-SA6-SB-4.5	07.12.11	1150	SOIL	NONE	5-Encores										X	X	X										
SL-275-SA6-SB-4.0-5.0	07.12.11	1155	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-275-SA6-SB-9.5	07.12.11	1200	SOIL	NONE	1-Encores												X										
SL-275-SA6-SB-9.0-10.0	07.12.11	1205	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-276-SA6-SB-4.5	07.12.11	1420	SOIL	NONE	5-Encores										X	X	X										
SL-276-SA6-SB-4.0-5.0	07.12.11	1425	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X			X	X		X	X	X	
SL-276-SA6-SB-9.5	07.12.11	1430	SOIL	NONE	1-Encores												X										
SL-276-SA6-SB-9.0-10.0	07.12.11	1435	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X			X	X		X	X	X	
TB-071211	07.12.11	0800	WATER	NONE	4-40mL vials										X	X	X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	07/12/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	7/13/11 0950	8754 3340 5359,5267,5304,5348	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/13/2011
Group Number: 1255951
SDG: DX110
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-136-SA6-SB-4.0-5.0 Soil	6342337
SL-136-SA6-SB-9.0-10.0 Soil	6342338
SL-139-SA6-SB-4.0-5.0 Soil	6342339
SL-139-SA6-SB-9.0-10.0 Soil	6342340
SL-275-SA6-SB-4.0-5.0 Soil	6342341
SL-275-SA6-SB-9.0-10.0 Soil	6342342
SL-276-SA6-SB-4.0-5.0 Soil	6342343
SL-276-SA6-SB-9.0-10.0 Soil	6342344
SL-289-SA6-SS-0.0-0.5 Soil	6342345

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-136-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA6-SB-4.0-5.0

LLI Sample # SW 6342337
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:25

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1364 SDG#: DX110-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-136-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA6-SB-4.0-5.0

LLI Sample # SW 6342337
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:25

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1364 SDG#: DX110-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0461 U	0.0461	1.08	1
11031	12378-PeCDD	40321-76-4	0.0446 U	0.0446	5.40	1
11031	123478-HxCDD	39227-28-6	0.0745 JBQ	0.0395	5.40	1
11031	123678-HxCDD	57653-85-7	0.0716 JB	0.0399	5.40	1
11031	123789-HxCDD	19408-74-3	0.0672 JBQ	0.0391	5.40	1
11031	1234678-HpCDD	35822-46-9	0.805 JB	0.0948	5.40	1
11031	OCDD	3268-87-9	6.26 JB	0.0952	10.8	1
11031	2378-TCDF	51207-31-9	0.0451 U	0.0451	1.08	1
11031	12378-PeCDF	57117-41-6	0.0305 U	0.0305	5.40	1
11031	23478-PeCDF	57117-31-4	0.0550 JBQ	0.0296	5.40	1
11031	123478-HxCDF	70648-26-9	0.0470 JBQ	0.0322	5.40	1
11031	123678-HxCDF	57117-44-9	0.0280 JBQ	0.0264	5.40	1
11031	123789-HxCDF	72918-21-9	0.0711 JB	0.0375	5.40	1
11031	234678-HxCDF	60851-34-5	0.0402 JBQ	0.0276	5.40	1
11031	1234678-HpCDF	67562-39-4	0.173 JBQ	0.0646	5.40	1
11031	1234789-HpCDF	55673-89-7	0.129 U	0.129	5.40	1
11031	OCDF	39001-02-0	0.313 JBQ	0.120	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	45	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-136-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA6-SB-4.0-5.0

LLI Sample # SW 6342337
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:25

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1364 SDG#: DX110-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-136-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA6-SB-4.0-5.0

LLI Sample # SW 6342337
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:25

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1364 SDG#: DX110-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11203001	07/26/2011 14:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11203001	07/22/2011 10:45	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402A	07/20/2011 20:25	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-136-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA6-SB-9.0-10.0

LLI Sample # SW 6342338
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:35

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1369 SDG#: DX110-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-136-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA6-SB-9.0-10.0

LLI Sample # SW 6342338
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:35

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1369 SDG#: DX110-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0479 JQ	0.0410	1.08	1
11031	12378-PeCDD	40321-76-4	0.0334 U	0.0334	5.40	1
11031	123478-HxCDD	39227-28-6	0.0408 JBQ	0.0293	5.40	1
11031	123678-HxCDD	57653-85-7	0.0296 U	0.0296	5.40	1
11031	123789-HxCDD	19408-74-3	0.0359 JB	0.0289	5.40	1
11031	1234678-HpCDD	35822-46-9	0.681 JB	0.0670	5.40	1
11031	OCDD	3268-87-9	2.50 JB	0.0934	10.8	1
11031	2378-TCDF	51207-31-9	0.0430 JQ	0.0413	1.08	1
11031	12378-PeCDF	57117-41-6	0.0275 U	0.0275	5.40	1
11031	23478-PeCDF	57117-31-4	0.0646 JBQ	0.0281	5.40	1
11031	123478-HxCDF	70648-26-9	0.0367 JBQ	0.0237	5.40	1
11031	123678-HxCDF	57117-44-9	0.0204 U	0.0204	5.40	1
11031	123789-HxCDF	72918-21-9	0.0339 U	0.0339	5.40	1
11031	234678-HxCDF	60851-34-5	0.0419 JB	0.0235	5.40	1
11031	1234678-HpCDF	67562-39-4	0.165 JBQ	0.0453	5.40	1
11031	1234789-HpCDF	55673-89-7	0.104 U	0.104	5.40	1
11031	OCDF	39001-02-0	0.187 JBQ	0.121	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	57	24 - 169
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	56	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	58	28 - 136
13C12-123789-HxCDF	48	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	43	26 - 138
13C12-OCDF	36	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-136-SA6-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA6-SB-9.0-10.0

LLI Sample # SW 6342338
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:35

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1369 SDG#: DX110-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-136-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA6-SB-9.0-10.0

LLI Sample # SW 6342338
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 08:35

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1369 SDG#: DX110-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11203001	07/26/2011 14:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11203001	07/22/2011 10:45	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402A	07/20/2011 20:25	Scott W Freisher	1

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Analysis Report

Sample Description: SL-139-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA6-SB-4.0-5.0

LLI Sample # SW 6342339
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:45

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1394 SDG#: DX110-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-139-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA6-SB-4.0-5.0

LLI Sample # SW 6342339
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:45

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1394 SDG#: DX110-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0369 U	0.0369	1.07	1
11031	12378-PeCDD	40321-76-4	0.0602 JBQ	0.0335	5.37	1
11031	123478-HxCDD	39227-28-6	0.0257 U	0.0257	5.37	1
11031	123678-HxCDD	57653-85-7	0.0388 JB	0.0259	5.37	1
11031	123789-HxCDD	19408-74-3	0.0739 JBQ	0.0261	5.37	1
11031	1234678-HpCDD	35822-46-9	0.533 JB	0.0585	5.37	1
11031	OCDD	3268-87-9	1.87 JB	0.0932	10.7	1
11031	2378-TCDF	51207-31-9	0.0308 U	0.0308	1.07	1
11031	12378-PeCDF	57117-41-6	0.0746 J	0.0229	5.37	1
11031	23478-PeCDF	57117-31-4	0.102 JBQ	0.0213	5.37	1
11031	123478-HxCDF	70648-26-9	0.0619 JB	0.0268	5.37	1
11031	123678-HxCDF	57117-44-9	0.0435 JBQ	0.0261	5.37	1
11031	123789-HxCDF	72918-21-9	0.0410 JB	0.0312	5.37	1
11031	234678-HxCDF	60851-34-5	0.0550 JB	0.0259	5.37	1
11031	1234678-HpCDF	67562-39-4	0.119 JBQ	0.0329	5.37	1
11031	1234789-HpCDF	55673-89-7	0.0511 JBQ	0.0478	5.37	1
11031	OCDF	39001-02-0	0.236 JBQ	0.0782	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	53	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-139-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA6-SB-4.0-5.0

LLI Sample # SW 6342339
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:45

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1394 SDG#: DX110-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-139-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA6-SB-4.0-5.0

LLI Sample # SW 6342339
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:45

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1394 SDG#: DX110-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11203001	07/26/2011 19:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11203001	07/22/2011 10:45	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402A	07/20/2011 20:25	Scott W Freisher	1

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Analysis Report

Sample Description: SL-139-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA6-SB-9.0-10.0

LLI Sample # SW 6342340
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:55

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1399 SDG#: DX110-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-139-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA6-SB-9.0-10.0

LLI Sample # SW 6342340
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:55

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1399 SDG#: DX110-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0454 U	0.0454	1.12	1
11031	12378-PeCDD	40321-76-4	0.119 JBQ	0.0440	5.60	1
11031	123478-HxCDD	39227-28-6	0.0691 JBQ	0.0339	5.60	1
11031	123678-HxCDD	57653-85-7	0.0850 JB	0.0351	5.60	1
11031	123789-HxCDD	19408-74-3	0.0759 JBQ	0.0358	5.60	1
11031	1234678-HpCDD	35822-46-9	0.694 JB	0.0588	5.60	1
11031	OCDD	3268-87-9	2.45 JB	0.0947	11.2	1
11031	2378-TCDF	51207-31-9	0.0755 J	0.0334	1.12	1
11031	12378-PeCDF	57117-41-6	0.148 J	0.0238	5.60	1
11031	23478-PeCDF	57117-31-4	0.130 JBQ	0.0231	5.60	1
11031	123478-HxCDF	70648-26-9	0.102 JBQ	0.0221	5.60	1
11031	123678-HxCDF	57117-44-9	0.0895 JBQ	0.0212	5.60	1
11031	123789-HxCDF	72918-21-9	0.0282 U	0.0282	5.60	1
11031	234678-HxCDF	60851-34-5	0.0599 JBQ	0.0224	5.60	1
11031	1234678-HpCDF	67562-39-4	0.212 JBQ	0.0390	5.60	1
11031	1234789-HpCDF	55673-89-7	0.0552 U	0.0552	5.60	1
11031	OCDF	39001-02-0	0.163 JBQ	0.0798	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	84	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	63	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-139-SA6-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA6-SB-9.0-10.0

LLI Sample # SW 6342340
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:55

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1399 SDG#: DX110-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-139-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA6-SB-9.0-10.0

LLI Sample # SW 6342340
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 09:55

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1399 SDG#: DX110-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11203001	07/26/2011 20:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11203001	07/22/2011 10:45	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402A	07/20/2011 20:25	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-275-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA6-SB-4.0-5.0

LLI Sample # SW 6342341
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 11:55

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2754 SDG#: DX110-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-275-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA6-SB-4.0-5.0

LLI Sample # SW 6342341
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 11:55

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2754 SDG#: DX110-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0390	U	0.0390	1.03	1
11031	12378-PeCDD	40321-76-4	0.0345	U	0.0345	5.15	1
11031	123478-HxCDD	39227-28-6	0.0286	U	0.0286	5.15	1
11031	123678-HxCDD	57653-85-7	0.0785	JBQ	0.0281	5.15	1
11031	123789-HxCDD	19408-74-3	0.134	JB	0.0283	5.15	1
11031	1234678-HpCDD	35822-46-9	0.608	JB	0.0525	5.15	1
11031	OCDD	3268-87-9	2.02	JB	0.0832	10.3	1
11031	2378-TCDF	51207-31-9	0.0312	U	0.0312	1.03	1
11031	12378-PeCDF	57117-41-6	0.0324	JQ	0.0168	5.15	1
11031	23478-PeCDF	57117-31-4	0.0570	JBQ	0.0175	5.15	1
11031	123478-HxCDF	70648-26-9	0.0664	JBQ	0.0173	5.15	1
11031	123678-HxCDF	57117-44-9	0.0364	JBQ	0.0139	5.15	1
11031	123789-HxCDF	72918-21-9	0.0569	JBQ	0.0240	5.15	1
11031	234678-HxCDF	60851-34-5	0.0274	JBQ	0.0162	5.15	1
11031	1234678-HpCDF	67562-39-4	0.117	JB	0.0219	5.15	1
11031	1234789-HpCDF	55673-89-7	0.0798	JBQ	0.0542	5.15	1
11031	OCDF	39001-02-0	0.224	JBQ	0.0829	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	54	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	52	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	44	26 - 138
13C12-OCDF	35	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-275-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA6-SB-4.0-5.0

LLI Sample # SW 6342341
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 11:55

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2754 SDG#: DX110-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-275-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA6-SB-4.0-5.0

LLI Sample # SW 6342341
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 11:55

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2754 SDG#: DX110-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11203001	07/26/2011 21:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11203001	07/22/2011 10:45	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402A	07/20/2011 20:25	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-275-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA6-SB-9.0-10.0

LLI Sample # SW 6342342
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 12:05

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2759 SDG#: DX110-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-275-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA6-SB-9.0-10.0

LLI Sample # SW 6342342
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 12:05

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2759 SDG#: DX110-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0341 U	0.0341	1.09	1
11031	12378-PeCDD	40321-76-4	0.0352 U	0.0352	5.45	1
11031	123478-HxCDD	39227-28-6	0.0257 U	0.0257	5.45	1
11031	123678-HxCDD	57653-85-7	0.0337 JBQ	0.0257	5.45	1
11031	123789-HxCDD	19408-74-3	0.0280 JBQ	0.0251	5.45	1
11031	1234678-HpCDD	35822-46-9	0.555 JB	0.0452	5.45	1
11031	OCDD	3268-87-9	2.71 JBQ	0.0624	10.9	1
11031	2378-TCDF	51207-31-9	0.0264 U	0.0264	1.09	1
11031	12378-PeCDF	57117-41-6	0.0152 U	0.0152	5.45	1
11031	23478-PeCDF	57117-31-4	0.0387 JBQ	0.0163	5.45	1
11031	123478-HxCDF	70648-26-9	0.0396 JBQ	0.0125	5.45	1
11031	123678-HxCDF	57117-44-9	0.0110 U	0.0110	5.45	1
11031	123789-HxCDF	72918-21-9	0.0257 JBQ	0.0164	5.45	1
11031	234678-HxCDF	60851-34-5	0.0393 JBQ	0.0117	5.45	1
11031	1234678-HpCDF	67562-39-4	0.128 JBQ	0.0172	5.45	1
11031	1234789-HpCDF	55673-89-7	0.0373 U	0.0373	5.45	1
11031	OCDF	39001-02-0	0.152 JBQ	0.0759	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	41	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-275-SA6-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-275-SA6-SB-9.0-10.0

LLI Sample # SW 6342342
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 12:05

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2759 SDG#: DX110-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-275-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA6-SB-9.0-10.0

LLI Sample # SW 6342342
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 12:05

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2759 SDG#: DX110-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11203001	07/26/2011 22:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11203001	07/22/2011 10:45	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402B	07/20/2011 20:25	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-276-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA6-SB-4.0-5.0

LLI Sample # SW 6342343
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:25

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2764 SDG#: DX110-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-276-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA6-SB-4.0-5.0

LLI Sample # SW 6342343
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:25

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2764 SDG#: DX110-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0400	JQ	0.0313	1.08	1
11031	12378-PeCDD	40321-76-4	0.230	JBQ	0.0587	5.42	1
11031	123478-HxCDD	39227-28-6	0.529	JBQ	0.0784	5.42	1
11031	123678-HxCDD	57653-85-7	2.90	JB	0.0796	5.42	1
11031	123789-HxCDD	19408-74-3	1.17	JB	0.0766	5.42	1
11031	1234678-HpCDD	35822-46-9	93.5	B	0.151	5.42	1
11031	OCDD	3268-87-9	1,010	B	0.160	10.8	1
11650	2378-TCDF-Conf	51207-31-9	0.965	JC	0.0894	1.08	1
11031	12378-PeCDF	57117-41-6	6.28		0.111	5.42	1
11031	23478-PeCDF	57117-31-4	2.81	JB	0.107	5.42	1
11031	123478-HxCDF	70648-26-9	2.46	JB	0.102	5.42	1
11031	123678-HxCDF	57117-44-9	1.05	JB	0.101	5.42	1
11031	123789-HxCDF	72918-21-9	0.232	JBQ	0.120	5.42	1
11031	234678-HxCDF	60851-34-5	0.756	JB	0.0986	5.42	1
11031	1234678-HpCDF	67562-39-4	14.1	B	0.0801	5.42	1
11031	1234789-HpCDF	55673-89-7	1.21	JB	0.111	5.42	1
11031	OCDF	39001-02-0	47.2	B	0.0885	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-2378-TCDF-Conf	76	24 - 169
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	56	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-276-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA6-SB-4.0-5.0

LLI Sample # SW 6342343
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:25

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2764 SDG#: DX110-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-276-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA6-SB-4.0-5.0

LLI Sample # SW 6342343
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:25

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2764 SDG#: DX110-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11203001	07/26/2011 23:39	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11203001	07/28/2011 05:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11203001	07/22/2011 10:45	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402B	07/20/2011 20:25	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-276-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA6-SB-9.0-10.0

LLI Sample # SW 6342344
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:35

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2769 SDG#: DX110-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-276-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA6-SB-9.0-10.0

LLI Sample # SW 6342344
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:35

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2769 SDG#: DX110-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0360	U	0.0360	1.08	1
11031	12378-PeCDD	40321-76-4	0.0327	U	0.0327	5.41	1
11031	123478-HxCDD	39227-28-6	0.0237	U	0.0237	5.41	1
11031	123678-HxCDD	57653-85-7	0.0233	U	0.0233	5.41	1
11031	123789-HxCDD	19408-74-3	0.0232	U	0.0232	5.41	1
11031	1234678-HpCDD	35822-46-9	0.423	JB	0.0407	5.41	1
11031	OCDD	3268-87-9	1.24	JB	0.0631	10.8	1
11031	2378-TCDF	51207-31-9	0.0307	U	0.0307	1.08	1
11031	12378-PeCDF	57117-41-6	0.0167	U	0.0167	5.41	1
11031	23478-PeCDF	57117-31-4	0.0541	JBQ	0.0174	5.41	1
11031	123478-HxCDF	70648-26-9	0.0357	JBQ	0.0165	5.41	1
11031	123678-HxCDF	57117-44-9	0.0291	JBQ	0.0137	5.41	1
11031	123789-HxCDF	72918-21-9	0.0227	U	0.0227	5.41	1
11031	234678-HxCDF	60851-34-5	0.0427	JBQ	0.0154	5.41	1
11031	1234678-HpCDF	67562-39-4	0.0993	JB	0.0144	5.41	1
11031	1234789-HpCDF	55673-89-7	0.0326	U	0.0326	5.41	1
11031	OCDF	39001-02-0	0.150	JB	0.0822	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	60	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	47	26 - 138
13C12-OCDF	39	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-276-SA6-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-276-SA6-SB-9.0-10.0

LLI Sample # SW 6342344
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:35

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2769 SDG#: DX110-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-276-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA6-SB-9.0-10.0

LLI Sample # SW 6342344
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:35

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2769 SDG#: DX110-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11203001	07/27/2011 00:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11203001	07/22/2011 10:45	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402B	07/20/2011 20:25	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-289-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-289-SA6-SS-0.0-0.5

LLI Sample # SW 6342345
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:50

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2890 SDG#: DX110-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-289-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-289-SA6-SS-0.0-0.5

LLI Sample # SW 6342345
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:50

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2890 SDG#: DX110-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0263	U	0.0263	0.988	1
11031	12378-PeCDD	40321-76-4	0.0230	U	0.0230	4.94	1
11031	123478-HxCDD	39227-28-6	0.0254	U	0.0254	4.94	1
11031	123678-HxCDD	57653-85-7	0.0740	JBQ	0.0263	4.94	1
11031	123789-HxCDD	19408-74-3	0.0738	JB	0.0268	4.94	1
11031	1234678-HpCDD	35822-46-9	1.92	JB	0.0539	4.94	1
11031	OCDD	3268-87-9	20.8	B	0.0642	9.88	1
11031	2378-TCDF	51207-31-9	0.0265	U	0.0265	0.988	1
11031	12378-PeCDF	57117-41-6	0.0282	JQ	0.0161	4.94	1
11031	23478-PeCDF	57117-31-4	0.0424	JBQ	0.0170	4.94	1
11031	123478-HxCDF	70648-26-9	0.0421	JBQ	0.0149	4.94	1
11031	123678-HxCDF	57117-44-9	0.0267	JBQ	0.0129	4.94	1
11031	123789-HxCDF	72918-21-9	0.0209	JBQ	0.0196	4.94	1
11031	234678-HxCDF	60851-34-5	0.0410	JBQ	0.0143	4.94	1
11031	1234678-HpCDF	67562-39-4	0.300	JBQ	0.0207	4.94	1
11031	1234789-HpCDF	55673-89-7	0.0478	U	0.0478	4.94	1
11031	OCDF	39001-02-0	0.493	JB	0.0861	9.88	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	61	23 - 140
13C12-OCDD	44	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	57	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	60	28 - 136
13C12-123789-HxCDF	54	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	35	26 - 138
13C12-OCDF	24	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-289-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-289-SA6-SS-0.0-0.5

LLI Sample # SW 6342345
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:50

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2890 SDG#: DX110-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-289-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-289-SA6-SS-0.0-0.5

LLI Sample # SW 6342345
LLI Group # 1255951
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/11/2011 15:50

Submitted: 07/13/2011 09:50
Reported: 08/12/2011 09:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2890 SDG#: DX110-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11203001	07/27/2011 01:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11203001	07/22/2011 10:45	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11201162402B	07/20/2011 20:25	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255951
Reported: 08/12/11 at 09:12 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11201162402A	Sample number(s): 6342337-6342341								
Moisture Content by 160.3					100		80-120		
Batch number: 11201162402B	Sample number(s): 6342342-6342345								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11203001	Sample number(s): 6342337-6342345								
2378-TCDD	0.0422 U	0.0422	1.00	ng/kg	93		67-158		
12378-PeCDD	0.0396 J	0.0344	5.00	ng/kg	94		70-142		
123478-HxCDD	0.0284 J	0.0259	5.00	ng/kg	95		70-164		
123678-HxCDD	0.0466 J	0.0260	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0580 J	0.0255	5.00	ng/kg	95		64-162		
1234678-HpCDD	0.487 J	0.0421	5.00	ng/kg	94		70-140		
OCDD	0.904 J	0.0372	10.0	ng/kg	93		78-144		
2378-TCDF	0.0391 U	0.0391	1.00	ng/kg	92		75-158		
2378-TCDF-Conf	0.0224 J	0.0165	1.00	ng/kg	92		75-158		
12378-PeCDF	0.0173 U	0.0173	5.00	ng/kg	89		80-134		
23478-PeCDF	0.0844 J	0.0178	5.00	ng/kg	89		68-160		
123478-HxCDF	0.0788 J	0.0195	5.00	ng/kg	89		72-134		
123678-HxCDF	0.0517 J	0.0162	5.00	ng/kg	90		84-130		
123789-HxCDF	0.0495 J	0.0239	5.00	ng/kg	90		78-130		
234678-HxCDF	0.0900 J	0.0178	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.198 J	0.0195	5.00	ng/kg	90		82-122		
1234789-HpCDF	0.0894 J	0.0452	5.00	ng/kg	94		78-138		
OCDF	0.314 J	0.0902	10.0	ng/kg	91		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11201162402A	Sample number(s): 6342337-6342341					BKG: P342212			
Moisture Content by 160.3						11.0	11.4	4	20
Batch number: 11201162402B	Sample number(s): 6342342-6342345					BKG: P342214			
Moisture Content by 160.3						9.3	8.9	4	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255951
Reported: 08/12/11 at 09:12 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11203001	Sample number(s): 6342337-6342345 UNSPK: P340991								
2378-TCDD	94	91	67-158	3	25				
12378-PeCDD	97	95	70-142	2	25				
123478-HxCDD	98	96	70-164	2	25				
123678-HxCDD	96	93	76-134	2	25				
123789-HxCDD	96	94	64-162	2	25				
1234678-HpCDD	77 (2)	35 (2)	70-140	1	25				
OCDD	-489 (2)	-572 (2)	78-144	0	25				
2378-TCDF	61*	58*	75-158	2	25				
2378-TCDF-Conf	61*	58*	75-158	2	25				
12378-PeCDF	102	88	80-134	11	25				
23478-PeCDF	96	94	68-160	2	25				
123478-HxCDF	91	90	72-134	2	25				
123678-HxCDF	94	94	84-130	0	25				
123789-HxCDF	95	94	78-130	1	25				
234678-HxCDF	98	96	70-156	2	25				
1234678-HpCDF	99	102	82-122	1	25				
1234789-HpCDF	96	95	78-138	1	25				
OCDF	94	83	63-170	3	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11203001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6342337	67	69	62	74	69	61
6342338	62	56	57	70	58	48
6342339	80	75	74	75	73	71
6342340	87	76	84	84	83	79
6342341	66	58	63	74	64	52
6342342	64	61	64	75	68	57
6342343	78	69	72	74	73	72
6342344	64	58	64	76	67	56
6342345	72	57	59	68	60	54
Blank	71	66	67	80	71	64
MS	78	73	74	74	73	72
MSD	72	69	70	68	70	68
OPR	63	59	60	71	63	55
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6342337	84	54	45	72	78	79
6342338	76	43	36	63	67	69

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1255951
Reported: 08/12/11 at 09:12 AM

Surrogate Quality Control

6342339	74	60	53	76	76	79
6342340	81	71	63	74	81	87
6342341	85	44	35	63	71	74
6342342	86	48	41	64	74	74
6342343	72	65	56	70	77	78
6342344	86	47	39	60	74	76
6342345	66	35	24	67	73	75
Blank	98	54	45	71	81	83
MS	70	64	57	71	73	74
MSD	64	61	54	69	70	73
OPR	87	49	41	65	71	72
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6342337	77	73	62	63	74	
6342338	67	63	55	57	63	
6342339	76	69	59	80	79	
6342340	83	81	70	87	79	
6342341	72	64	54	60	67	
6342342	74	68	62	64	69	
6342343	77	74	61	77	73	76
6342344	73	66	58	60	65	
6342345	72	61	44	66	66	
Blank	80	78	70	67	75	61
MS	74	69	58	79	75	79
MSD	71	67	54	74	71	74
OPR	70	69	63	58	65	58
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013/125595I/6342337-45

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-289-SA6-SS-0.0-0.5	07.11.11	1550	SOIL	NONE	1-SS Sleeve			X	X																	
SL-289-SA6-SS-0.0-0.5	07.11.11	1550	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	Primary, alcohols, glycols, terphenyls, TPH only
SL-291-SA6-SS-0.0-0.5	07.11.11	1529	SOIL	NONE	1-SS Sleeve			X	X																	
SL-291-SA6-SS-0.0-0.5	07.11.11	1529	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	Primary, alcohols, glycols, terphenyls, TPH only
SL-098-SA6-SS-0.0-0.5	07.12.11	0842	SOIL	NONE	1-SS Sleeve			X	X																	
SL-098-SA6-SS-0.0-0.5	07.12.11	0842	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	Primary, alcohols, glycols, terphenyls, TPH only
SL-109-SA6-SS-0.0-0.5	07.12.11	0943	SOIL	NONE	1-SS Sleeve			X	X																	
SL-109-SA6-SS-0.0-0.5	07.12.11	0943	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	Primary, alcohols, glycols, terphenyls, TPH only
SL-110-SA6-SS-0.0-0.5	07.12.11	1020	SOIL	NONE	1-SS Sleeve			X	X																	
SL-110-SA6-SS-0.0-0.5	07.12.11	1020	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	Primary, alcohols, glycols, terphenyls, TPH only
SL-113-SA6-SS-0.0-0.5	07.12.11	1206	SOIL	NONE	1-SS Sleeve			X	X																	
SL-113-SA6-SS-0.0-0.5	07.12.11	1206	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	Primary, alcohols, glycols, terphenyls, TPH only
SL-290-SA6-SS-0.0-0.5	07.12.11	0800	SOIL	NONE	1-SS Sleeve			X	X																	
SL-290-SA6-SS-0.0-0.5	07.12.11	0800	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	Primary, alcohols, glycols, terphenyls, TPH only

PRIMARY FOR ALL LOCATIONS | SS ONLY | SECONDARY FOR ALL LOCATIONS

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)
	07/12/2011 / 1600	
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**
Suzette Palmer	7/13/110930	8754 3340 5359,5267,5304, 5348

Laboratory:
Lancaster Laboratories, Inc.

13013/1255951/6342337-45

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-136-SA6-SB-4.5	07.12.11	0820	SOIL	NONE	5-Encores										X	X	X										
SL-136-SA6-SB-4.0-5.0	07.12.11	0825	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-136-SA6-SB-9.5	07.12.11	0830	SOIL	NONE	1-Encores												X										
SL-136-SA6-SB-9.0-10.0	07.12.11	0835	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-139-SA6-SB-4.5	07.12.11	0940	SOIL	NONE	5-Encores										X	X	X										
SL-139-SA6-SB-4.0-5.0	07.12.11	0945	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-139-SA6-SB-9.5	07.12.11	0950	SOIL	NONE	1-Encores												X										
SL-139-SA6-SB-9.0-10.0	07.12.11	0955	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-275-SA6-SB-4.5	07.12.11	1150	SOIL	NONE	5-Encores										X	X	X										
SL-275-SA6-SB-4.0-5.0	07.12.11	1155	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-275-SA6-SB-9.5	07.12.11	1200	SOIL	NONE	1-Encores												X										
SL-275-SA6-SB-9.0-10.0	07.12.11	1205	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-276-SA6-SB-4.5	07.12.11	1420	SOIL	NONE	5-Encores										X	X	X										
SL-276-SA6-SB-4.0-5.0	07.12.11	1425	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X		X	X			X	X	X	
SL-276-SA6-SB-9.5	07.12.11	1430	SOIL	NONE	1-Encores												X										
SL-276-SA6-SB-9.0-10.0	07.12.11	1435	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X		X	X			X	X	X	
TB-071211	07.12.11	0800	WATER	NONE	4-40mL vials										X	X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	07/12/2011 / 1800		Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
Suzette Lehman	7/13/11 0950	8754 3340 5359,5267,5304,5348	

13013 / 1255951 / 6342337-45

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB-SA6-SS-071211	07.12.11	1300	WATER	NONE	11-1 liter ambers			X	X	X					X	X	X			X	X		X			
EB-SA6-SS-071211	07.12.11	1300	WATER	NONE	1-500 mL poly		X				X	X	X													
EB-SA6-SS-071211	07.12.11	1300	WATER	HNO3	1-500 mL poly	X																				
EB-SA6-SS-071211	07.12.11	1300	WATER	NaOH	1-500 mL glass																	X				
EB-SA6-SS-071211	07.12.11	1300	WATER	NONE	1-250 mL glass														X							
EB-SA6-SS-071211	07.12.11	1300	WATER	HCl	2-40 mL vials																				X	
EB-SA6-SS-071211	07.12.11	1300	WATER	NONE	4-40 mL vials													X						X		

07/12/2011 / 1600

Laboratory:

Lancaster Laboratories, Inc.

Received by: (Signature) Suzette Lehman

Date/Time 7/13/11 0950

Airbill No.(s) 8754 3340 5359,5267,5304, 5348

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 24, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/14/2011
Group Number: 1256191
SDG: DE199
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-280-SA6-SS-0.0-0.5 Soil	6343393
SL-281-SA6-SS-0.0-0.5 Soil	6343394
SL-300-SA6-SS-0.0-0.5 Soil	6343395
SL-030-SA6-SS-0.0-0.5 Soil	6343396
SL-035-SA6-SS-0.0-0.5 Soil	6343397
SL-040-SA6-SS-0.0-0.5 Soil	6343398
SL-047-SA6-SS-0.0-0.5 Soil	6343399
SL-059-SA6-SS-0.0-0.5 Soil	6343400
SL-066-SA6-SS-0.0-0.5 Soil	6343401
SL-067-SA6-SS-0.0-0.5 Soil	6343402
SL-278-SA6-SS-0.0-0.5 Soil	6343403
SL-279-SA6-SS-0.0-0.5 Soil	6343404
SL-072-SA6-SB-4.0-5.0 Soil	6343405
SL-072-SA6-SB-9.0-10.0 Soil	6343406
SL-116-SA6-SB-2.5-3.5 Soil	6343407
SL-118-SA6-SB-4.0-5.0 Soil	6343408
SL-118-SA6-SB-10.5-11.5 Soil	6343409
SL-083-SA6-SB-4.0-5.0 Soil	6343410
SL-083-SA6-SB-9.0-10.0 Soil	6343411
TB-071311 Water	6343412
EB-SA6-SB-071311 Water	6343413
EB-SA6-SS-071311 Water	6343414

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

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Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Chad A. Moline
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-280-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-280-SA6-SS-0.0-0.5

LLI Sample # SW 6343393
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 15:43

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9901 SDG#: DE199-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	174	U	174	348		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	70	U	70	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-280-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-280-SA6-SS-0.0-0.5

LLI Sample # SW 6343393
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 15:43

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9901 SDG#: DE199-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.7		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.7		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.7		5
10138	Benzo(a)anthracene	56-55-3	3.5	U	3.5	8.7		5
10138	Benzo(a)pyrene	50-32-8	3.5	U	3.5	8.7		5
10138	Benzo(b)fluoranthene	205-99-2	3.5	U	3.5	8.7		5
10138	Benzo(g,h,i)perylene	191-24-2	5.4	J	3.5	8.7		5
10138	Benzo(k)fluoranthene	207-08-9	3.5	U	3.5	8.7		5
10138	Di-n-butylphthalate	84-74-2	36	J	31	94		5
10138	Chrysene	218-01-9	4.5	J	1.7	8.7		5
10138	Dibenz(a,h)anthracene	53-70-3	3.5	U	3.5	8.7		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	38	J	31	94		5
10138	Fluoranthene	206-44-0	4.2	J	3.5	8.7		5
10138	Fluorene	86-73-7	3.5	U	3.5	8.7		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.5	U	3.5	8.7		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.7		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.7		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.7		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.7		5
10138	Phenanthrene	85-01-8	3.5	U	3.5	8.7		5
10138	Pyrene	129-00-0	3.5	U	3.5	8.7		5

Reporting limits were raised due to interference from the sample matrix.

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 7.9 ug/kg
bis(2-ethylhexyl)phthalate 6.5 ug/kg
These blank values were not subtracted from the analytical results.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-280-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-280-SA6-SS-0.0-0.5

LLI Sample # SW 6343393
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 15:43

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9901 SDG#: DE199-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.3		1
10401	2,4-DB	94-82-6	0.64	U	0.64	1.8		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.2		1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8		1
10401	MCPA	94-74-6	320		79	260		1
10401	MCPP (Mecoprop)	93-65-2	170	U	170	260		1
10401	2,4,5-T	93-76-5	0.16	J	0.085	0.18		1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18		1

The LCS data for dinoseb and 2,4,5-TP is outside the QC limits. Results from the reextraction are within the limits. Dicamba, MCPP, and 2,4,5-T were detected in the method blank. These analytes were not detected in the method blank associated with the reextraction. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that MCPA was not detected in the reextract.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.34	U	0.34	0.87		5
01363	Alpha BHC	319-84-6	0.18	U	0.18	0.87		5
01363	Beta BHC	319-85-7	0.31	U	0.31	0.87		5
01363	Gamma BHC - Lindane	58-89-9	0.18	U	0.18	0.87		5
01363	Chlordane	57-74-9	4.2	U	4.2	18		5
01363	p,p-DDD	72-54-8	0.34	U	0.34	1.8		5
01363	p,p-DDE	72-55-9	9.7	U	9.7	9.7		5
01363	p,p-DDT	50-29-3	20		1.4	7.1		20
01363	Delta BHC	319-86-8	0.19	U	0.19	0.87		5
01363	Dieldrin	60-57-1	6.4	U	6.4	6.4		5
01363	Endosulfan I	959-98-8	0.23	U	0.23	0.87		5
01363	Endosulfan II	33213-65-9	2.1	U	2.1	2.1		5
01363	Endosulfan Sulfate	1031-07-8	0.34	U	0.34	1.8		5
01363	Endrin	72-20-8	2.1	U	2.1	2.1		5
01363	Endrin Aldehyde	7421-93-4	1.5	U	1.5	1.8		5
01363	Endrin Ketone	53494-70-5	0.34	U	0.34	1.8		5
01363	Heptachlor	76-44-8	0.31	U	0.31	0.87		5
01363	Heptachlor Epoxide	1024-57-3	2.3	U	2.3	2.3		5
01363	Methoxychlor	72-43-5	1.8	U	1.8	8.7		5
01363	Mirex	2385-85-5	0.36	U	0.36	1.8		5
01363	Toxaphene	8001-35-2	11	U	11	34		5

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-280-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-280-SA6-SS-0.0-0.5

LLI Sample # SW 6343393
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 15:43

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9901 SDG#: DE199-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.1	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	7.8		0.34	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.83	U	0.83	2.5		2
10199	EFH (C15-C20)	n.a.	2.6		0.83	2.5		2
10199	EFH (C21-C30)	n.a.	49		0.83	2.5		2
10199	EFH (C30 - C40)	n.a.	71		0.83	2.5		2
10199	EFH (C8-C11)	n.a.	0.83	U	0.83	2.5		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,600		6.25	20.6		1
07914	Boron	7440-42-8	2.91	J	0.372	5.16		1
01650	Calcium	7440-70-2	5,650		2.58	20.6		1
01654	Iron	7439-89-6	24,800		2.69	20.6		1
01656	Lithium	7439-93-2	22.6		0.64	2.1		1
01657	Magnesium	7439-95-4	5,470		0.454	10.3		1
06958	Manganese	7439-96-5	277		0.0372	0.516		1
10145	Phosphorus	7723-14-0	445		0.361	10.3		1

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Sample Description: SL-280-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-280-SA6-SS-0.0-0.5

LLI Sample # SW 6343393
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 15:43

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9901 SDG#: DE199-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	3,890		11.7	51.6		1
01667	Sodium	7440-23-5	92.4	J	6.14	103		1
07968	Strontium	7440-24-6	23.4		0.0258	0.516		1
06969	Tin	7440-31-5	2.18	J	0.330	10.3		1
06970	Titanium	7440-32-6	1,020		0.0733	1.03		1
10146	Zirconium	7440-67-7	2.83	J	0.475	5.16		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.117	J	0.0764	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.66		0.0826	0.413		2
06126	Barium	7440-39-3	80.0		0.109	0.413		2
06127	Beryllium	7440-41-7	0.442		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.175		0.0454	0.103		2
06131	Chromium	7440-47-3	16.4		0.124	0.413		2
06132	Cobalt	7440-48-4	6.41		0.0206	0.103		2
06133	Copper	7440-50-8	13.1		0.0826	0.413		2
06135	Lead	7439-92-1	7.30		0.0105	0.206		2
06138	Molybdenum	7439-98-7	0.483		0.0516	0.103		2
06139	Nickel	7440-02-0	11.0		0.103	0.413		2
06141	Selenium	7782-49-2	0.109	J	0.0599	0.413		2
06142	Silver	7440-22-4	0.0442	J	0.0147	0.103		2
06145	Thallium	7440-28-0	0.196		0.0310	0.103		2
06148	Vanadium	7440-62-2	35.7		0.0227	0.103		2
06149	Zinc	7440-66-6	63.1		0.578	3.10		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.159		0.0068	0.0972		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.97		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.1		0.50	0.50		1

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Sample Description: SL-280-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-280-SA6-SS-0.0-0.5

LLI Sample # SW 6343393
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 15:43

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9901 SDG#: DE199-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11201SLB026	07/21/2011 16:03	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11201SLH026	07/30/2011 00:58	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLL026	07/22/2011 14:19	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11201SLB026	07/20/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLL026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11201SLH026	07/21/2011 06:30	Katheryne V Sponheimer	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111970007A	07/18/2011 23:05	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112010012A	07/23/2011 01:55	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112010008A	08/12/2011 15:54	Jamie L Brillhart	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112010008A	08/17/2011 01:07	Jamie L Brillhart	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112020012A	07/23/2011 00:52	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112010008A	07/20/2011 16:00	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112020012A	07/21/2011 18:35	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112010012A	07/20/2011 20:30	Elaine F Stoltzfus	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111970007A	07/17/2011 15:00	Wanda F Oswald	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111960030A	07/16/2011 21:09	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111960003A	07/15/2011 14:44	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112010017A	07/22/2011 01:59	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020030A	07/23/2011 01:58	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112020030A	07/22/2011 07:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112010017A	07/21/2011 06:40	Katheryne V Sponheimer	1

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Sample Description: SL-280-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-280-SA6-SS-0.0-0.5

LLI Sample # SW 6343393
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 15:43

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9901 SDG#: DE199-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111960030A	07/16/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111960003A	07/15/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111995708002	07/24/2011 23:25	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111995708002	07/24/2011 23:25	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111995708002	07/26/2011 00:05	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111995708002	07/24/2011 23:25	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111995708002	07/24/2011 23:25	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111995708002	07/26/2011 00:05	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111995708002	07/24/2011 23:25	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111995708002	07/24/2011 23:25	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111995708002	07/26/2011 00:05	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111995708002	07/26/2011 00:05	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111995708002	07/24/2011 23:25	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111995708002	07/24/2011 23:25	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111995708002	07/24/2011 23:25	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111995708002	07/24/2011 23:25	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111991026001A	07/23/2011 01:10	David K Beck	2
06125	Arsenic	SW-846 6020	1	111991026001A	07/23/2011 01:10	David K Beck	2
06126	Barium	SW-846 6020	1	111991026001D	07/23/2011 01:10	David K Beck	2
06127	Beryllium	SW-846 6020	1	111991026001A	07/23/2011 01:10	David K Beck	2
06128	Cadmium	SW-846 6020	1	111991026001A	07/23/2011 01:10	David K Beck	2
06131	Chromium	SW-846 6020	1	111991026001A	07/23/2011 01:10	David K Beck	2
06132	Cobalt	SW-846 6020	1	111991026001A	07/23/2011 01:10	David K Beck	2
06133	Copper	SW-846 6020	1	111991026001A	07/23/2011 01:10	David K Beck	2
06135	Lead	SW-846 6020	1	111991026001A	07/23/2011 01:10	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111991026001C	07/23/2011 01:10	David K Beck	2
06139	Nickel	SW-846 6020	1	111991026001A	07/23/2011 01:10	David K Beck	2
06141	Selenium	SW-846 6020	1	111991026001B	07/23/2011 01:10	David K Beck	2
06142	Silver	SW-846 6020	1	111991026001A	07/23/2011 01:10	David K Beck	2
06145	Thallium	SW-846 6020	1	111991026001A	07/23/2011 01:10	David K Beck	2
06148	Vanadium	SW-846 6020	1	111991026001A	07/23/2011 01:10	David K Beck	2
06149	Zinc	SW-846 6020	1	111991026001A	07/23/2011 01:10	David K Beck	2
00159	Mercury	SW-846 7471A	1	111995711002	07/18/2011 18:47	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708002	07/18/2011 12:05	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026001	07/18/2011 11:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711002	07/18/2011 13:38	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621201A	07/28/2011 13:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621202A	07/25/2011 16:32	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11211243201A	08/01/2011 14:49	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621201A	07/26/2011 07:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621202A	07/19/2011 07:45	William L Hamaker Jr	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-280-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-280-SA6-SS-0.0-0.5

LLI Sample # SW 6343393
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 15:43

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9901 SDG#: DE199-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039403A	07/25/2011 21:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11211243201A	07/30/2011 08:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11202162401A	07/21/2011 18:53	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-281-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-281-SA6-SS-0.0-0.5

LLI Sample # SW 6343394
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:30

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9902 SDG#: DE199-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	171	U	171	342		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1

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Sample Description: SL-281-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-281-SA6-SS-0.0-0.5

LLI Sample # SW 6343394
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:30

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9902 SDG#: DE199-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenanthrene	85-01-8	20	J	17	170		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.5		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.5		5
10138	Anthracene	120-12-7	3.3	J	1.7	8.5		5
10138	Benzo(a)anthracene	56-55-3	34		3.4	8.5		5
10138	Benzo(a)pyrene	50-32-8	46		3.4	8.5		5
10138	Benzo(b)fluoranthene	205-99-2	60		3.4	8.5		5
10138	Benzo(g,h,i)perylene	191-24-2	35		3.4	8.5		5
10138	Benzo(k)fluoranthene	207-08-9	24		3.4	8.5		5
10138	Di-n-butylphthalate	84-74-2	36	J	31	92		5
10138	Chrysene	218-01-9	41		1.7	8.5		5
10138	Dibenz(a,h)anthracene	53-70-3	7.9	J	3.4	8.5		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	63	J	31	92		5
10138	Fluoranthene	206-44-0	52		3.4	8.5		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.5		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	28		3.4	8.5		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.5		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.5		5
10138	Naphthalene	91-20-3	12		3.4	8.5		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.5		5
10138	Pyrene	129-00-0	51		3.4	8.5		5

Reporting limits were raised due to interference from the sample matrix.

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 7.9 ug/kg
bis(2-ethylhexyl)phthalate 6.5 ug/kg
These blank values were not subtracted from the analytical results.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-281-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-281-SA6-SS-0.0-0.5

LLI Sample # SW 6343394
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:30

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9902 SDG#: DE199-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	0.64	U	0.64	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	110	J	78	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1

The LCS data for dinoseb and 2,4,5-TP is outside the QC limits. Results from the reextraction are within the limits. Dicamba, MCPP, and 2,4,5-T were detected in the method blank. These analytes were not detected in the method blank associated with the reextraction. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that MCPA was not detected in the reextract.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	3.4	U	3.4	8.5		50
01363	Alpha BHC	319-84-6	1.7	U	1.7	8.5		50
01363	Beta BHC	319-85-7	3.1	U	3.1	8.5		50
01363	Gamma BHC - Lindane	58-89-9	1.7	U	1.7	8.5		50
01363	Chlordane	57-74-9	41	U	41	170		50
01363	p,p-DDD	72-54-8	3.4	U	3.4	17		50
01363	p,p-DDE	72-55-9	57	U	57	57		50
01363	p,p-DDT	50-29-3	130	U	130	130		50
01363	Delta BHC	319-86-8	1.8	U	1.8	8.5		50
01363	Dieldrin	60-57-1	37	U	37	37		50
01363	Endosulfan I	959-98-8	2.3	U	2.3	8.5		50
01363	Endosulfan II	33213-65-9	13	U	13	17		50
01363	Endosulfan Sulfate	1031-07-8	3.4	U	3.4	17		50
01363	Endrin	72-20-8	13	U	13	17		50
01363	Endrin Aldehyde	7421-93-4	9.8	U	9.8	17		50
01363	Endrin Ketone	53494-70-5	3.4	U	3.4	17		50
01363	Heptachlor	76-44-8	3.1	U	3.1	8.5		50
01363	Heptachlor Epoxide	1024-57-3	14	U	14	14		50
01363	Methoxychlor	72-43-5	17	U	17	85		50
01363	Mirex	2385-85-5	3.4	U	3.4	17		50
01363	Toxaphene	8001-35-2	110	U	110	340		50

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	

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SSFL Area IV Collocated Soil Sampling
SL-281-SA6-SS-0.0-0.5

LLI Sample # SW 6343394
LLI Group # 1256191
Account # 13013

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E9902 SDG#: DE199-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	10	U	10	34		10
10225	Aroclor 5442	12642-23-8	10	U	10	34		10
10225	Aroclor 5460	11126-42-4	70		10	34		10
10225	PCB-1016	12674-11-2	3.4	U	3.4	17		10
10225	PCB-1221	11104-28-2	3.4	U	3.4	17		10
10225	PCB-1232	11141-16-5	3.4	U	3.4	17		10
10225	PCB-1242	53469-21-9	3.4	U	3.4	17		10
10225	PCB-1248	12672-29-6	3.4	U	3.4	17		10
10225	PCB-1254	11097-69-1	350		3.4	17		10
10225	PCB-1260	11096-82-5	4.0	U	4.0	17		10
10225	PCB-1262	37324-23-5	3.4	U	3.4	17		10
10225	PCB-1268	11100-14-4	3.4	U	3.4	17		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C15-C20)	n.a.	4.2	J	2.0	6.1		5
10199	EFH (C21-C30)	n.a.	43		2.0	6.1		5
10199	EFH (C30 - C40)	n.a.	150		2.0	6.1		5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.1		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,700		6.14	20.3		1
07914	Boron	7440-42-8	0.365	U	0.365	5.07		1
01650	Calcium	7440-70-2	13,300		2.54	20.3		1
01654	Iron	7439-89-6	43,800		13.2	101		5
01656	Lithium	7439-93-2	15.8		0.63	2.0		1
01657	Magnesium	7439-95-4	4,150		0.446	10.1		1

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SL-281-SA6-SS-0.0-0.5

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E9902 SDG#: DE199-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	252		0.0365	0.507		1
10145	Phosphorus	7723-14-0	1,780		0.355	10.1		1
01662	Potassium	7440-09-7	2,610		11.5	50.7		1
01667	Sodium	7440-23-5	238		6.04	101		1
07968	Strontium	7440-24-6	41.9		0.0254	0.507		1
06969	Tin	7440-31-5	2.17	J	0.325	10.1		1
06970	Titanium	7440-32-6	725		0.0720	1.01		1
10146	Zirconium	7440-67-7	1.32	J	0.467	5.07		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.157	J	0.0758	0.205		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	14.2		0.0820	0.410		2
06126	Barium	7440-39-3	66.3		0.109	0.410		2
06127	Beryllium	7440-41-7	0.351		0.0164	0.102		2
06128	Cadmium	7440-43-9	0.209		0.0451	0.102		2
06131	Chromium	7440-47-3	15.3		0.123	0.410		2
06132	Cobalt	7440-48-4	16.1		0.0205	0.102		2
06133	Copper	7440-50-8	24.3		0.0820	0.410		2
06135	Lead	7439-92-1	8.47		0.0105	0.205		2
06138	Molybdenum	7439-98-7	0.778		0.0512	0.102		2
06139	Nickel	7440-02-0	11.1		0.102	0.410		2
06141	Selenium	7782-49-2	0.126	J	0.0594	0.410		2
06142	Silver	7440-22-4	0.0481	J	0.0145	0.102		2
06145	Thallium	7440-28-0	0.145		0.0307	0.102		2
06148	Vanadium	7440-62-2	43.8		0.0225	0.102		2
06149	Zinc	7440-66-6	67.8		0.574	3.07		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0682	J	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.55	J	0.21	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.96		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	

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SSFL Area IV Collocated Soil Sampling
SL-281-SA6-SS-0.0-0.5

LLI Sample # SW 6343394
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E9902 SDG#: DE199-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	2.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11201SLB026	07/21/2011 16:23	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11201SLH026	07/30/2011 02:14	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLL026	07/22/2011 17:47	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11201SLB026	07/20/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLL026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11201SLH026	07/21/2011 06:30	Katheryne V Sponheimer	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111970007A	07/18/2011 23:15	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112010012A	07/23/2011 03:17	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112010008A	08/12/2011 16:42	Jamie L Brillhart	50
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112020012A	07/22/2011 23:56	Sarah M Snyder	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112010008A	07/20/2011 16:00	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112020012A	07/21/2011 18:35	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112010012A	07/20/2011 20:30	Elaine F Stoltzfus	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111970007A	07/17/2011 15:00	Wanda F Oswald	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111960030A	07/16/2011 21:24	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111960003A	07/15/2011 14:57	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112010017A	07/22/2011 04:12	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020030A	07/23/2011 04:54	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112020030A	07/22/2011 07:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112010017A	07/21/2011 06:40	Katheryne V Sponheimer	1

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SSFL Area IV Collocated Soil Sampling
SL-281-SA6-SS-0.0-0.5

LLI Sample # SW 6343394
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E9902 SDG#: DE199-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111960030A	07/16/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111960003A	07/15/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111995708002	07/24/2011 23:37	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111995708002	07/24/2011 23:37	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111995708002	07/26/2011 00:09	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111995708002	07/26/2011 00:22	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111995708002	07/24/2011 23:37	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111995708002	07/26/2011 00:09	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111995708002	07/24/2011 23:37	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111995708002	07/24/2011 23:37	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111995708002	07/26/2011 00:09	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111995708002	07/26/2011 00:09	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111995708002	07/24/2011 23:37	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111995708002	07/24/2011 23:37	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111995708002	07/24/2011 23:37	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111995708002	07/24/2011 23:37	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111991026001A	07/23/2011 01:29	David K Beck	2
06125	Arsenic	SW-846 6020	1	111991026001A	07/23/2011 01:29	David K Beck	2
06126	Barium	SW-846 6020	1	111991026001D	07/23/2011 01:29	David K Beck	2
06127	Beryllium	SW-846 6020	1	111991026001A	07/23/2011 01:29	David K Beck	2
06128	Cadmium	SW-846 6020	1	111991026001A	07/23/2011 01:29	David K Beck	2
06131	Chromium	SW-846 6020	1	111991026001A	07/23/2011 01:29	David K Beck	2
06132	Cobalt	SW-846 6020	1	111991026001A	07/23/2011 01:29	David K Beck	2
06133	Copper	SW-846 6020	1	111991026001A	07/23/2011 01:29	David K Beck	2
06135	Lead	SW-846 6020	1	111991026001A	07/23/2011 01:29	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111991026001C	07/23/2011 01:29	David K Beck	2
06139	Nickel	SW-846 6020	1	111991026001A	07/23/2011 01:29	David K Beck	2
06141	Selenium	SW-846 6020	1	111991026001B	07/23/2011 01:29	David K Beck	2
06142	Silver	SW-846 6020	1	111991026001A	07/23/2011 01:29	David K Beck	2
06145	Thallium	SW-846 6020	1	111991026001A	07/23/2011 01:29	David K Beck	2
06148	Vanadium	SW-846 6020	1	111991026001A	07/23/2011 01:29	David K Beck	2
06149	Zinc	SW-846 6020	1	111991026001A	07/23/2011 01:29	David K Beck	2
00159	Mercury	SW-846 7471A	1	111995711002	07/18/2011 18:48	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708002	07/18/2011 12:05	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026001	07/18/2011 11:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711002	07/18/2011 13:38	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621201A	07/28/2011 14:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621202A	07/25/2011 17:41	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11211243201A	08/01/2011 15:10	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621201A	07/26/2011 07:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621202A	07/19/2011 07:45	William L Hamaker Jr	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-281-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-281-SA6-SS-0.0-0.5

LLI Sample # SW 6343394
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:30

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9902 SDG#: DE199-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039403A	07/25/2011 21:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11211243201A	07/30/2011 08:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11202162401A	07/21/2011 18:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-300-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-300-SA6-SS-0.0-0.5

LLI Sample # SW 6343395
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 15:05

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9903 SDG#: DE199-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	172	U	172	343		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-300-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-300-SA6-SS-0.0-0.5

LLI Sample # SW 6343395
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 15:05

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9903 SDG#: DE199-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.6		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.6		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.6		5
10138	Benzo(a)anthracene	56-55-3	3.4	U	3.4	8.6		5
10138	Benzo(a)pyrene	50-32-8	3.4	U	3.4	8.6		5
10138	Benzo(b)fluoranthene	205-99-2	5.2	J	3.4	8.6		5
10138	Benzo(g,h,i)perylene	191-24-2	4.8	J	3.4	8.6		5
10138	Benzo(k)fluoranthene	207-08-9	3.4	U	3.4	8.6		5
10138	Di-n-butylphthalate	84-74-2	35	J	31	93		5
10138	Chrysene	218-01-9	3.3	J	1.7	8.6		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.6		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	36	J	31	93		5
10138	Fluoranthene	206-44-0	3.4	U	3.4	8.6		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.6		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.6		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.6		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.6		5
10138	Naphthalene	91-20-3	4.7	J	3.4	8.6		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.6		5
10138	Phenanthrene	85-01-8	3.4	U	3.4	8.6		5
10138	Pyrene	129-00-0	3.4	U	3.4	8.6		5

Reporting limits were raised due to interference from the sample matrix.

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 7.9 ug/kg
bis(2-ethylhexyl)phthalate 6.5 ug/kg
These blank values were not subtracted from the analytical results.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-300-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-300-SA6-SS-0.0-0.5

LLI Sample # SW 6343395
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 15:05

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9903 SDG#: DE199-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.3		1
10401	2,4-DB	94-82-6	0.64	U	0.64	1.7		1
10401	Dicamba	1918-00-9	0.66	J	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	530		78	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.22		0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1

The LCS data for dinoseb and 2,4,5-TP is outside the QC limits. Results from the reextraction are within the limits. Dicamba, MCPP, and 2,4,5-T were detected in the method blank. These analytes were not detected in the method blank associated with the reextraction. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that MCPA, dicamba, and 2,4,5-T were not detected in the reextract.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	620	U	620	1,500		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.34	U	0.34	0.85		5
01363	Alpha BHC	319-84-6	0.17	U	0.17	0.85		5
01363	Beta BHC	319-85-7	0.31	U	0.31	0.85		5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.85		5
01363	Chlordane	57-74-9	4.1	U	4.1	17		5
01363	p,p-DDD	72-54-8	0.34	U	0.34	1.7		5
01363	p,p-DDE	72-55-9	3.4	U	3.4	3.4		5
01363	p,p-DDT	50-29-3	15		1.4	7.0		20
01363	Delta BHC	319-86-8	0.19	U	0.19	0.85		5
01363	Dieldrin	60-57-1	0.34	U	0.34	1.7		5
01363	Endosulfan I	959-98-8	0.23	U	0.23	0.85		5
01363	Endosulfan II	33213-65-9	1.9	U	1.9	1.9		5
01363	Endosulfan Sulfate	1031-07-8	0.34	U	0.34	1.7		5
01363	Endrin	72-20-8	1.7	U	1.7	1.7		5
01363	Endrin Aldehyde	7421-93-4	1.2	U	1.2	1.7		5
01363	Endrin Ketone	53494-70-5	0.34	U	0.34	1.7		5
01363	Heptachlor	76-44-8	0.31	U	0.31	0.85		5
01363	Heptachlor Epoxide	1024-57-3	1.6	U	1.6	1.6		5
01363	Methoxychlor	72-43-5	1.7	U	1.7	8.5		5
01363	Mirex	2385-85-5	0.34	U	0.34	1.7		5
01363	Toxaphene	8001-35-2	11	U	11	34		5

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-300-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-300-SA6-SS-0.0-0.5

LLI Sample # SW 6343395
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 15:05

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9903 SDG#: DE199-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	10	U	10	34		10
10225	Aroclor 5442	12642-23-8	10	U	10	34		10
10225	Aroclor 5460	11126-42-4	37		10	34		10
10225	PCB-1016	12674-11-2	3.4	U	3.4	17		10
10225	PCB-1221	11104-28-2	3.4	U	3.4	17		10
10225	PCB-1232	11141-16-5	3.4	U	3.4	17		10
10225	PCB-1242	53469-21-9	3.4	U	3.4	17		10
10225	PCB-1248	12672-29-6	3.4	U	3.4	17		10
10225	PCB-1254	11097-69-1	89		3.4	17		10
10225	PCB-1260	11096-82-5	4.0	U	4.0	17		10
10225	PCB-1262	37324-23-5	3.4	U	3.4	17		10
10225	PCB-1268	11100-14-4	3.4	U	3.4	17		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.2		5
10199	EFH (C15-C20)	n.a.	3.6	J	2.1	6.2		5
10199	EFH (C21-C30)	n.a.	35		2.1	6.2		5
10199	EFH (C30 - C40)	n.a.	140		2.1	6.2		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.2		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,500		5.98	19.8		1
07914	Boron	7440-42-8	1.78	J	0.356	4.95		1
01650	Calcium	7440-70-2	12,800		2.47	19.8		1
01654	Iron	7439-89-6	28,700		5.16	39.6		2
01656	Lithium	7439-93-2	16.3		0.61	2.0		1
01657	Magnesium	7439-95-4	4,770		0.435	9.89		1
06958	Manganese	7439-96-5	264		0.0356	0.495		1
10145	Phosphorus	7723-14-0	927		0.346	9.89		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-300-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-300-SA6-SS-0.0-0.5

LLI Sample # SW 6343395
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 15:05

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9903 SDG#: DE199-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	3,270		11.2	49.5		1
01667	Sodium	7440-23-5	161		5.89	98.9		1
07968	Strontium	7440-24-6	32.8		0.0247	0.495		1
06969	Tin	7440-31-5	1.96	J	0.317	9.89		1
06970	Titanium	7440-32-6	870		0.0702	0.989		1
10146	Zirconium	7440-67-7	1.58	J	0.455	4.95		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0761	U	0.0761	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.89		0.0823	0.412		2
06126	Barium	7440-39-3	60.4		0.109	0.412		2
06127	Beryllium	7440-41-7	0.349		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.231		0.0453	0.103		2
06131	Chromium	7440-47-3	12.8		0.123	0.412		2
06132	Cobalt	7440-48-4	5.02		0.0206	0.103		2
06133	Copper	7440-50-8	8.86		0.0823	0.412		2
06135	Lead	7439-92-1	6.27		0.0105	0.206		2
06138	Molybdenum	7439-98-7	0.558		0.0514	0.103		2
06139	Nickel	7440-02-0	7.57		0.103	0.412		2
06141	Selenium	7782-49-2	0.0670	J	0.0597	0.412		2
06142	Silver	7440-22-4	0.0620	J	0.0146	0.103		2
06145	Thallium	7440-28-0	0.151		0.0309	0.103		2
06148	Vanadium	7440-62-2	25.1		0.0226	0.103		2
06149	Zinc	7440-66-6	57.7		0.576	3.09		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0599	J	0.0069	0.0982		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	30.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.58		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.8		0.50	0.50		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-300-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-300-SA6-SS-0.0-0.5

LLI Sample # SW 6343395
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 15:05

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9903 SDG#: DE199-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11201SLB026	07/21/2011 16:42	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11201SLH026	07/30/2011 02:39	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLL026	07/22/2011 18:19	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11201SLB026	07/20/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLL026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11201SLH026	07/21/2011 06:30	Katheryne V Sponheimer	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111970007A	07/18/2011 23:24	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112010012A	07/23/2011 03:45	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112010008A	08/12/2011 16:56	Jamie L Brillhart	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112010008A	08/17/2011 01:22	Jamie L Brillhart	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112020012A	07/23/2011 01:11	Sarah M Snyder	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112010008A	07/20/2011 16:00	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112020012A	07/21/2011 18:35	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112010012A	07/20/2011 20:30	Elaine F Stoltzfus	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111970007A	07/17/2011 15:00	Wanda F Oswald	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111960030A	07/16/2011 22:08	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111960003A	07/15/2011 15:10	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112020029A	07/23/2011 00:21	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020030A	07/23/2011 05:19	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112020030A	07/22/2011 07:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112020029A	07/22/2011 07:00	Joseph S Feister	1

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Sample Description: SL-300-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-300-SA6-SS-0.0-0.5

LLI Sample # SW 6343395
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 15:05

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9903 SDG#: DE199-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111960030A	07/16/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111960003A	07/15/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111995708002	07/24/2011 23:41	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111995708002	07/24/2011 23:41	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111995708002	07/26/2011 00:26	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111995708002	07/26/2011 00:30	John W Yanzuk II	2
01656	Lithium	SW-846 6010B	1	111995708002	07/24/2011 23:41	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111995708002	07/26/2011 00:26	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111995708002	07/24/2011 23:41	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111995708002	07/24/2011 23:41	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111995708002	07/26/2011 00:26	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111995708002	07/26/2011 00:26	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111995708002	07/24/2011 23:41	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111995708002	07/24/2011 23:41	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111995708002	07/24/2011 23:41	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111995708002	07/24/2011 23:41	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111991026001A	07/23/2011 01:32	David K Beck	2
06125	Arsenic	SW-846 6020	1	111991026001A	07/23/2011 01:32	David K Beck	2
06126	Barium	SW-846 6020	1	111991026001D	07/23/2011 01:32	David K Beck	2
06127	Beryllium	SW-846 6020	1	111991026001A	07/23/2011 01:32	David K Beck	2
06128	Cadmium	SW-846 6020	1	111991026001A	07/23/2011 01:32	David K Beck	2
06131	Chromium	SW-846 6020	1	111991026001A	07/23/2011 01:32	David K Beck	2
06132	Cobalt	SW-846 6020	1	111991026001A	07/23/2011 01:32	David K Beck	2
06133	Copper	SW-846 6020	1	111991026001A	07/23/2011 01:32	David K Beck	2
06135	Lead	SW-846 6020	1	111991026001A	07/23/2011 01:32	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111991026001C	07/23/2011 01:32	David K Beck	2
06139	Nickel	SW-846 6020	1	111991026001A	07/23/2011 01:32	David K Beck	2
06141	Selenium	SW-846 6020	1	111991026001B	07/23/2011 01:32	David K Beck	2
06142	Silver	SW-846 6020	1	111991026001A	07/23/2011 01:32	David K Beck	2
06145	Thallium	SW-846 6020	1	111991026001A	07/23/2011 01:32	David K Beck	2
06148	Vanadium	SW-846 6020	1	111991026001A	07/23/2011 01:32	David K Beck	2
06149	Zinc	SW-846 6020	1	111991026001A	07/23/2011 01:32	David K Beck	2
00159	Mercury	SW-846 7471A	1	111995711002	07/18/2011 18:49	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708002	07/18/2011 12:05	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026001	07/18/2011 11:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711002	07/18/2011 13:38	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621201A	07/28/2011 14:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621202A	07/29/2011 02:49	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11211243201A	08/01/2011 16:10	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621201A	07/26/2011 07:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621202A	07/19/2011 07:45	William L Hamaker Jr	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-300-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-300-SA6-SS-0.0-0.5

LLI Sample # SW 6343395
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 15:05

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9903 SDG#: DE199-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039403A	07/25/2011 21:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11211243201A	07/30/2011 08:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11202162401A	07/21/2011 18:53	Scott W Freisher	1

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Analysis Report

Sample Description: SL-030-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA6-SS-0.0-0.5

LLI Sample # SW 6343396
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 11:10

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9904 SDG#: DE199-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	171	U	171	343		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	98	J	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-030-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA6-SS-0.0-0.5

LLI Sample # SW 6343396
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 11:10

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9904 SDG#: DE199-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.6		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.6		5
10138	Anthracene	120-12-7	2.5	J	1.7	8.6		5
10138	Benzo(a)anthracene	56-55-3	21		3.4	8.6		5
10138	Benzo(a)pyrene	50-32-8	27		3.4	8.6		5
10138	Benzo(b)fluoranthene	205-99-2	45		3.4	8.6		5
10138	Benzo(g,h,i)perylene	191-24-2	23		3.4	8.6		5
10138	Benzo(k)fluoranthene	207-08-9	18		3.4	8.6		5
10138	Di-n-butylphthalate	84-74-2	47	J	31	93		5
10138	Chrysene	218-01-9	29		1.7	8.6		5
10138	Dibenz(a,h)anthracene	53-70-3	5.8	J	3.4	8.6		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	63	J	31	93		5
10138	Fluoranthene	206-44-0	38		3.4	8.6		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.6		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	18		3.4	8.6		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.6		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.6		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.6		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.6		5
10138	Di-n-octylphthalate	117-84-0	32	J	31	93		5
10138	Phenanthrene	85-01-8	15		3.4	8.6		5
10138	Pyrene	129-00-0	29		3.4	8.6		5

Reporting limits were raised due to interference from the sample matrix.

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 7.9 ug/kg
bis(2-ethylhexyl)phthalate 6.5 ug/kg
These blank values were not subtracted from the analytical results.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-030-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA6-SS-0.0-0.5

LLI Sample # SW 6343396
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 11:10

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9904 SDG#: DE199-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	25	U	25	25		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	78	U	78	260		1
10401	MCPP (Mecoprop)	93-65-2	140	J	77	260		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.22		0.077	0.17		1

The LCS data for dinoseb and 2,4,5-TP is outside the QC limits. Results from

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Sample Description: SL-030-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA6-SS-0.0-0.5

LLI Sample # SW 6343396
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 11:10

Submitted: 07/14/2011 09:10
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9904 SDG#: DE199-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	the reextraction are within the limits. Dicamba, MCPP, and 2,4,5-T were detected in the method blank. These analytes were not detected in the method blank associated with the reextraction. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that MCPP and 2,4,5-TP were not detected in the reextract. Reporting limits were raised for 2,4-DB due to interference from the sample matrix.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	J	620	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.051	J	0.035	0.17		1
01363	Chlordane	57-74-9	10		0.82	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	3.1	U	3.1	3.1		1
01363	p,p-DDT	50-29-3	24		1.7	8.7		25
01363	Delta BHC	319-86-8	0.042	U	0.042	0.17		1
01363	Dieldrin	60-57-1	4.1	U	4.1	4.1		5
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	1.5	U	1.5	1.5		1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	1.6	U	1.6	1.6		1
01363	Endrin Aldehyde	7421-93-4	2.6	U	2.6	2.6		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.81	U	0.81	0.81		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	10	U	10	34		10
10225	Aroclor 5442	12642-23-8	10	U	10	34		10
10225	Aroclor 5460	11126-42-4	60		10	34		10
10225	PCB-1016	12674-11-2	3.4	U	3.4	17		10
10225	PCB-1221	11104-28-2	3.4	U	3.4	17		10
10225	PCB-1232	11141-16-5	3.4	U	3.4	17		10
10225	PCB-1242	53469-21-9	3.4	U	3.4	17		10
10225	PCB-1248	12672-29-6	3.4	U	3.4	17		10
10225	PCB-1254	11097-69-1	120		3.4	17		10
10225	PCB-1260	11096-82-5	4.0	U	4.0	17		10
10225	PCB-1262	37324-23-5	3.4	U	3.4	17		10

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Sample Description: SL-030-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA6-SS-0.0-0.5

LLI Sample # SW 6343396
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 11:10

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9904 SDG#: DE199-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	3.4	U	3.4	17		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.82	U	0.82	2.5		2
10199	EFH (C15-C20)	n.a.	11		0.82	2.5		2
10199	EFH (C21-C30)	n.a.	40		0.82	2.5		2
10199	EFH (C30 - C40)	n.a.	100		0.82	2.5		2
10199	EFH (C8-C11)	n.a.	1.0	J	0.82	2.5		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,600		6.10	20.2		1
07914	Boron	7440-42-8	2.96	J	0.363	5.04		1
01650	Calcium	7440-70-2	4,120		2.52	20.2		1
01654	Iron	7439-89-6	26,400		2.63	20.2		1
01656	Lithium	7439-93-2	30.1		0.62	2.0		1
01657	Magnesium	7439-95-4	5,980		0.443	10.1		1
06958	Manganese	7439-96-5	441		0.0363	0.504		1
10145	Phosphorus	7723-14-0	465		0.353	10.1		1
01662	Potassium	7440-09-7	4,330		11.4	50.4		1
01667	Sodium	7440-23-5	117		6.00	101		1
07968	Strontium	7440-24-6	26.9		0.0252	0.504		1
06969	Tin	7440-31-5	2.40	J	0.322	10.1		1
06970	Titanium	7440-32-6	1,250		0.0715	1.01		1
10146	Zirconium	7440-67-7	2.97	J	0.463	5.04		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.164	J	0.0761	0.206		2

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Sample Description: SL-030-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA6-SS-0.0-0.5

LLI Sample # SW 6343396
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 11:10

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9904 SDG#: DE199-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.01		0.0822	0.411		2
06126	Barium	7440-39-3	109		0.109	0.411		2
06127	Beryllium	7440-41-7	0.632		0.0164	0.103		2
06128	Cadmium	7440-43-9	0.848		0.0452	0.103		2
06131	Chromium	7440-47-3	22.3		0.123	0.411		2
06132	Cobalt	7440-48-4	6.26		0.0206	0.103		2
06133	Copper	7440-50-8	22.0		0.0822	0.411		2
06135	Lead	7439-92-1	20.6		0.0105	0.206		2
06138	Molybdenum	7439-98-7	0.613		0.0514	0.103		2
06139	Nickel	7440-02-0	12.7		0.103	0.411		2
06141	Selenium	7782-49-2	0.163	J	0.0596	0.411		2
06142	Silver	7440-22-4	0.0963	J	0.0146	0.103		2
06145	Thallium	7440-28-0	0.296		0.0308	0.103		2
06148	Vanadium	7440-62-2	39.6		0.0226	0.103		2
06149	Zinc	7440-66-6	260		5.76	30.8		20
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	1.31		0.0360	0.512		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.84	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	7.2		0.84	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	0.99		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.43		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-030-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA6-SS-0.0-0.5

LLI Sample # SW 6343396
LLI Group # 1256191
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E9904 SDG#: DE199-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11201SLB026	07/21/2011 17:01	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11201SLH026	07/30/2011 03:04	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLL026	07/22/2011 18:51	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11201SLB026	07/20/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLL026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11201SLH026	07/21/2011 06:30	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	112070007A	07/28/2011 00:16	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111970007A	07/18/2011 23:34	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112010012A	07/23/2011 04:12	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112010008A	08/12/2011 17:11	Jamie L Brillhart	25
01363	12a Pesticides by 8081A	SW-846 8081A	1	112010008A	08/17/2011 01:36	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112010008A	08/17/2011 01:51	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112020012A	07/23/2011 01:29	Sarah M Snyder	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112010008A	07/20/2011 16:00	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112020012A	07/21/2011 18:35	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112010012A	07/20/2011 20:30	Elaine F Stoltzfus	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111970007A	07/17/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112070007A	07/26/2011 15:15	Kelli M Barto	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111960030A	07/16/2011 22:23	Tracy A Cole	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111960003A	07/15/2011 15:23	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112020029A	07/23/2011 02:35	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020030A	07/23/2011 03:13	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112020030A	07/22/2011 07:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112020029A	07/22/2011 07:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111960030A	07/16/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111960003A	07/15/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111995708002	07/24/2011 23:45	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111995708002	07/24/2011 23:45	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111995708002	07/26/2011 00:34	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111995708002	07/24/2011 23:45	Tara L Snyder	1

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SSFL Area IV Collocated Soil Sampling
SL-030-SA6-SS-0.0-0.5

LLI Sample # SW 6343396
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E9904 SDG#: DE199-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	111995708002	07/24/2011 23:45	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111995708002	07/26/2011 00:34	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111995708002	07/24/2011 23:45	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111995708002	07/24/2011 23:45	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111995708002	07/26/2011 00:34	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111995708002	07/26/2011 00:34	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111995708002	07/24/2011 23:45	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111995708002	07/24/2011 23:45	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111995708002	07/24/2011 23:45	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111995708002	07/24/2011 23:45	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111991026001A	07/23/2011 01:41	David K Beck	2
06125	Arsenic	SW-846 6020	1	111991026001A	07/23/2011 01:41	David K Beck	2
06126	Barium	SW-846 6020	1	111991026001D	07/23/2011 01:41	David K Beck	2
06127	Beryllium	SW-846 6020	1	111991026001A	07/23/2011 01:41	David K Beck	2
06128	Cadmium	SW-846 6020	1	111991026001A	07/23/2011 01:41	David K Beck	2
06131	Chromium	SW-846 6020	1	111991026001A	07/23/2011 01:41	David K Beck	2
06132	Cobalt	SW-846 6020	1	111991026001A	07/23/2011 01:41	David K Beck	2
06133	Copper	SW-846 6020	1	111991026001A	07/23/2011 01:41	David K Beck	2
06135	Lead	SW-846 6020	1	111991026001A	07/23/2011 01:41	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111991026001C	07/23/2011 01:41	David K Beck	2
06139	Nickel	SW-846 6020	1	111991026001A	07/23/2011 01:41	David K Beck	2
06141	Selenium	SW-846 6020	1	111991026001B	07/23/2011 01:41	David K Beck	2
06142	Silver	SW-846 6020	1	111991026001A	07/23/2011 01:41	David K Beck	2
06145	Thallium	SW-846 6020	1	111991026001A	07/23/2011 01:41	David K Beck	2
06148	Vanadium	SW-846 6020	1	111991026001A	07/23/2011 01:41	David K Beck	2
06149	Zinc	SW-846 6020	1	111991026001A	07/26/2011 01:19	David K Beck	20
00159	Mercury	SW-846 7471A	1	111995711002	07/18/2011 19:21	Nelli S Markaryan	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708002	07/18/2011 12:05	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026001	07/18/2011 11:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711002	07/18/2011 13:38	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621201A	07/27/2011 23:50	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11207621201A	07/27/2011 23:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621202A	07/29/2011 03:12	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11211243201A	08/01/2011 16:37	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11201102201A	07/21/2011 18:49	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621201A	07/26/2011 07:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621202A	07/19/2011 07:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11201102201A	07/20/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039403A	07/25/2011 21:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11211243201A	07/30/2011 08:10	Daniel S Smith	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-030-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA6-SS-0.0-0.5

LLI Sample # SW 6343396
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 11:10

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9904 SDG#: DE199-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-035-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA6-SS-0.0-0.5

LLI Sample # SW 6343397
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 10:05

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9905 SDG#: DE199-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	169	U	169	338		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)pyrene	50-32-8	35	J	17	170		1
04688	Benzo(b)fluoranthene	205-99-2	46	J	17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	32	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	94	J	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Chrysene	218-01-9	79	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	180		34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Fluoranthene	206-44-0	25	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-035-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA6-SS-0.0-0.5

LLI Sample # SW 6343397
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 10:05

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9905 SDG#: DE199-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.5		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.5		5
10138	Anthracene	120-12-7	2.6	J	1.7	8.5		5
10138	Benzo(a)anthracene	56-55-3	3.4	U	3.4	8.5		5
10138	Benzo(k)fluoranthene	207-08-9	3.4	U	3.4	8.5		5
10138	Dibenz(a,h)anthracene	53-70-3	7.8	J	3.4	8.5		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	48	J	30	91		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.5		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	9.4		3.4	8.5		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.5		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.5		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.5		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.5		5
10138	Di-n-octylphthalate	117-84-0	35	J	30	91		5
10138	Phenanthrene	85-01-8	5.8	J	3.4	8.5		5
10138	Pyrene	129-00-0	11		3.4	8.5		5
	Reporting limits were raised due to interference from the sample matrix.							
	The following compounds were detected in the method blank at the respective concentrations of: bis(2-ethylhexyl)phthalate 6.5 ug/kg These blank values were not subtracted from the analytical results.							
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-035-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA6-SS-0.0-0.5

LLI Sample # SW 6343397
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 10:05

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9905 SDG#: DE199-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	8.0		1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	0.63	U	0.63	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	370	U	370	370		1
10401	MCPP (Mecoprop)	93-65-2	370	U	370	370		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

The LCS data for dinoseb and 2,4,5-TP is outside the QC limits. Results from

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Sample Description: SL-035-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA6-SS-0.0-0.5

LLI Sample # SW 6343397
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 10:05

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9905 SDG#: DE199-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	the reextraction are within the limits. Dicamba, MCPP, and 2,4,5-T were detected in the method blank. These analytes were not detected in the method blank associated with the reextraction. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that 2,4-DB was detected at 2.02 ug/kg and 2,4-D was not detected in the reextract.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.46		0.034	0.17		1
01363	Chlordane	57-74-9	65		8.1	34		10
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.65	U	0.65	0.65		1
01363	p,p-DDT	50-29-3	5.0		0.67	3.4		10
01363	Delta BHC	319-86-8	0.099	J	0.037	0.17		1
01363	Dieldrin	60-57-1	0.14	U	0.14	0.34		1
01363	Endosulfan I	959-98-8	0.17	U	0.17	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.49	U	0.49	0.49		1
01363	Endrin Aldehyde	7421-93-4	0.72	U	0.72	0.72		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.43	U	0.43	0.43		1
01363	Heptachlor Epoxide	1024-57-3	0.23	U	0.23	0.23		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	10	U	10	33		10
10225	Aroclor 5442	12642-23-8	10	U	10	33		10
10225	Aroclor 5460	11126-42-4	52		10	33		10
10225	PCB-1016	12674-11-2	3.3	U	3.3	17		10
10225	PCB-1221	11104-28-2	3.3	U	3.3	17		10
10225	PCB-1232	11141-16-5	3.3	U	3.3	17		10
10225	PCB-1242	53469-21-9	3.3	U	3.3	17		10
10225	PCB-1248	12672-29-6	3.3	U	3.3	17		10
10225	PCB-1254	11097-69-1	39		3.3	17		10
10225	PCB-1260	11096-82-5	4.0	U	4.0	17		10

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Sample Description: SL-035-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA6-SS-0.0-0.5

LLI Sample # SW 6343397
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 10:05

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9905 SDG#: DE199-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	3.3	U	3.3	17		10
10225	PCB-1268	11100-14-4	3.3	U	3.3	17		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C15-C20)	n.a.	4.1	J	2.0	6.1		5
10199	EFH (C21-C30)	n.a.	59		2.0	6.1		5
10199	EFH (C30 - C40)	n.a.	170		2.0	6.1		5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.1		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,400		6.02	19.9		1
07914	Boron	7440-42-8	1.69	J	0.358	4.97		1
01650	Calcium	7440-70-2	2,460		2.49	19.9		1
01654	Iron	7439-89-6	16,500		2.60	19.9		1
01656	Lithium	7439-93-2	19.9		0.62	2.0		1
01657	Magnesium	7439-95-4	3,690		0.437	9.94		1
06958	Manganese	7439-96-5	252		0.0358	0.497		1
10145	Phosphorus	7723-14-0	370		0.348	9.94		1
01662	Potassium	7440-09-7	3,180		11.2	49.7		1
01667	Sodium	7440-23-5	63.5	J	5.92	99.4		1
07968	Strontium	7440-24-6	15.1		0.0249	0.497		1
06969	Tin	7440-31-5	1.93	J	0.318	9.94		1
06970	Titanium	7440-32-6	893		0.0706	0.994		1
10146	Zirconium	7440-67-7	2.28	J	0.457	4.97		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-035-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA6-SS-0.0-0.5

LLI Sample # SW 6343397
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 10:05

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9905 SDG#: DE199-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0751	U	0.0751	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.03		0.0811	0.406		2
06126	Barium	7440-39-3	74.5		0.108	0.406		2
06127	Beryllium	7440-41-7	0.357		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.807		0.0446	0.101		2
06131	Chromium	7440-47-3	11.9		0.122	0.406		2
06132	Cobalt	7440-48-4	3.71		0.0203	0.101		2
06133	Copper	7440-50-8	12.6		0.0811	0.406		2
06135	Lead	7439-92-1	12.3		0.0103	0.203		2
06138	Molybdenum	7439-98-7	0.394		0.0507	0.101		2
06139	Nickel	7440-02-0	8.25		0.101	0.406		2
06141	Selenium	7782-49-2	0.0883	J	0.0588	0.406		2
06142	Silver	7440-22-4	0.0296	J	0.0144	0.101		2
06145	Thallium	7440-28-0	0.199		0.0304	0.101		2
06148	Vanadium	7440-62-2	23.6		0.0223	0.101		2
06149	Zinc	7440-66-6	69.4		0.568	3.04		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0183	J	0.0070	0.0990		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.83	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.67	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.81		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-035-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA6-SS-0.0-0.5

LLI Sample # SW 6343397
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 10:05

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9905 SDG#: DE199-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11201SLB026	07/21/2011 17:21	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11201SLH026	07/30/2011 03:29	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLL026	07/22/2011 19:23	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11201SLB026	07/20/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLL026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11201SLH026	07/21/2011 06:30	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	112070007A	07/28/2011 02:23	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111970007A	07/18/2011 23:53	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112010012A	07/23/2011 04:40	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112010008A	08/12/2011 17:25	Jamie L Brillhart	10
01363	12a Pesticides by 8081A	SW-846 8081A	1	112010008A	08/12/2011 23:51	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112020012A	07/23/2011 01:48	Sarah M Snyder	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112010008A	07/20/2011 16:00	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112020012A	07/21/2011 18:35	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112010012A	07/20/2011 20:30	Elaine F Stoltzfus	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111970007A	07/17/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112070007A	07/26/2011 15:15	Kelli M Barto	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112000030A	07/20/2011 22:44	Tracy A Cole	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111960003A	07/15/2011 15:35	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112020029A	07/23/2011 04:04	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020030A	07/23/2011 05:44	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112020030A	07/22/2011 07:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112020029A	07/22/2011 07:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112000030A	07/19/2011 17:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111960003A	07/15/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111995708002	07/24/2011 23:50	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111995708002	07/24/2011 23:50	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111995708002	07/26/2011 00:39	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111995708002	07/24/2011 23:50	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111995708002	07/24/2011 23:50	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-035-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA6-SS-0.0-0.5

LLI Sample # SW 6343397
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 10:05

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9905 SDG#: DE199-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	111995708002	07/26/2011 00:39	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111995708002	07/24/2011 23:50	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111995708002	07/24/2011 23:50	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111995708002	07/26/2011 00:39	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111995708002	07/26/2011 00:39	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111995708002	07/24/2011 23:50	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111995708002	07/24/2011 23:50	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111995708002	07/24/2011 23:50	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111995708002	07/24/2011 23:50	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111991026001A	07/23/2011 01:44	David K Beck	2
06125	Arsenic	SW-846 6020	1	111991026001A	07/23/2011 01:44	David K Beck	2
06126	Barium	SW-846 6020	1	111991026001D	07/23/2011 01:44	David K Beck	2
06127	Beryllium	SW-846 6020	1	111991026001A	07/23/2011 01:44	David K Beck	2
06128	Cadmium	SW-846 6020	1	111991026001A	07/23/2011 01:44	David K Beck	2
06131	Chromium	SW-846 6020	1	111991026001A	07/23/2011 01:44	David K Beck	2
06132	Cobalt	SW-846 6020	1	111991026001A	07/23/2011 01:44	David K Beck	2
06133	Copper	SW-846 6020	1	111991026001A	07/23/2011 01:44	David K Beck	2
06135	Lead	SW-846 6020	1	111991026001A	07/23/2011 01:44	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111991026001C	07/23/2011 01:44	David K Beck	2
06139	Nickel	SW-846 6020	1	111991026001A	07/23/2011 01:44	David K Beck	2
06141	Selenium	SW-846 6020	1	111991026001B	07/23/2011 01:44	David K Beck	2
06142	Silver	SW-846 6020	1	111991026001A	07/23/2011 01:44	David K Beck	2
06145	Thallium	SW-846 6020	1	111991026001A	07/23/2011 01:44	David K Beck	2
06148	Vanadium	SW-846 6020	1	111991026001A	07/23/2011 01:44	David K Beck	2
06149	Zinc	SW-846 6020	1	111991026001A	07/23/2011 01:44	David K Beck	2
00159	Mercury	SW-846 7471A	1	111995711002	07/18/2011 18:52	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708002	07/18/2011 12:05	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026001	07/18/2011 11:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711002	07/18/2011 13:38	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621201A	07/28/2011 00:05	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11207621201A	07/28/2011 00:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621202A	07/29/2011 03:35	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11211243201A	08/01/2011 16:50	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11201102201A	07/21/2011 18:52	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621201A	07/26/2011 07:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621202A	07/19/2011 07:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11201102201A	07/20/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039403A	07/25/2011 21:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11211243201A	07/30/2011 08:10	Daniel S Smith	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-035-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA6-SS-0.0-0.5

LLI Sample # SW 6343397
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 10:05

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9905 SDG#: DE199-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-040-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA6-SS-0.0-0.5

LLI Sample # SW 6343398
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:45

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9906 SDG#: DE199-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	68	J	17	350		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	140	J	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA6-SS-0.0-0.5

LLI Sample # SW 6343398
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:45

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9906 SDG#: DE199-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.4	J	0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	5.0		0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	8.5	J	6.2	19		1
10138	Chrysene	218-01-9	0.80	J	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	1.6	J	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7		1
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate 7.9 ug/kg These blank values were not subtracted from the analytical results.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.3		1
10401	2,4-DB	94-82-6	0.64	U	0.64	1.8		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA6-SS-0.0-0.5

LLI Sample # SW 6343398
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:45

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9906 SDG#: DE199-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	MCPA	94-74-6	110	U	110	260		1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260		1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18		1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18		1

The LCS data for dinoseb and 2,4,5-TP is outside the QC limits. Results from the reextraction are within the limits. Dicamba, MCPP, and 2,4,5-T were detected in the method blank. These analytes were not detected in the method blank associated with the reextraction. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Reporting limits were raised for MCPA due to interference from the sample matrix.

Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.2		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	6.8	U	6.8	17		100
01363	Alpha BHC	319-84-6	3.5	U	3.5	17		100
01363	Beta BHC	319-85-7	6.2	U	6.2	17		100
01363	Gamma BHC - Lindane	58-89-9	3.5	U	3.5	17		100
01363	Chlordane	57-74-9	83	U	83	350		100
01363	p,p-DDD	72-54-8	6.8	U	6.8	35		100
01363	p,p-DDE	72-55-9	120	U	120	120		100
01363	p,p-DDT	50-29-3	330		17	88		250
01363	Delta BHC	319-86-8	3.7	U	3.7	17		100
01363	Dieldrin	60-57-1	6.8	U	6.8	35		100
01363	Endosulfan I	959-98-8	4.6	U	4.6	17		100
01363	Endosulfan II	33213-65-9	24	U	24	35		100
01363	Endosulfan Sulfate	1031-07-8	6.8	U	6.8	35		100
01363	Endrin	72-20-8	27	U	27	35		100
01363	Endrin Aldehyde	7421-93-4	13	U	13	35		100
01363	Endrin Ketone	53494-70-5	6.8	U	6.8	35		100
01363	Heptachlor	76-44-8	6.2	U	6.2	17		100
01363	Heptachlor Epoxide	1024-57-3	31	U	31	31		100
01363	Methoxychlor	72-43-5	35	U	35	170		100
01363	Mirex	2385-85-5	6.8	U	6.8	35		100
01363	Toxaphene	8001-35-2	230	U	230	680		100

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.2	U	5.2	17		5
10225	Aroclor 5442	12642-23-8	5.2	U	5.2	17		5
10225	Aroclor 5460	11126-42-4	5.2	U	5.2	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.8		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.8		5

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Sample Description: SL-040-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA6-SS-0.0-0.5

LLI Sample # SW 6343398
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:45

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9906 SDG#: DE199-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.8		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.8		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.8		5
10225	PCB-1254	11097-69-1	100		1.7	8.8		5
10225	PCB-1260	11096-82-5	24		2.0	8.8		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.8		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.8		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.2		5
10199	EFH (C15-C20)	n.a.	4.2	J	2.1	6.2		5
10199	EFH (C21-C30)	n.a.	78		2.1	6.2		5
10199	EFH (C30 - C40)	n.a.	200		2.1	6.2		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.2		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,200		6.20	20.5		1
07914	Boron	7440-42-8	1.77	J	0.369	5.12		1
01650	Calcium	7440-70-2	2,380		2.56	20.5		1
01654	Iron	7439-89-6	18,700		2.68	20.5		1
01656	Lithium	7439-93-2	22.3		0.64	2.0		1
01657	Magnesium	7439-95-4	3,820		0.451	10.2		1
06958	Manganese	7439-96-5	272		0.0369	0.512		1
10145	Phosphorus	7723-14-0	401		0.359	10.2		1
01662	Potassium	7440-09-7	3,530		11.6	51.2		1
01667	Sodium	7440-23-5	58.0	J	6.10	102		1
07968	Strontium	7440-24-6	15.7		0.0256	0.512		1
06969	Tin	7440-31-5	2.44	J	0.328	10.2		1
06970	Titanium	7440-32-6	896		0.0728	1.02		1
10146	Zirconium	7440-67-7	2.41	J	0.471	5.12		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0744	U	0.0744	0.201		2

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Sample Description: SL-040-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA6-SS-0.0-0.5

LLI Sample # SW 6343398
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:45

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9906 SDG#: DE199-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.33		0.0804	0.402		2
06126	Barium	7440-39-3	68.6		0.107	0.402		2
06127	Beryllium	7440-41-7	0.396		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.201		0.0442	0.101		2
06131	Chromium	7440-47-3	12.5		0.121	0.402		2
06132	Cobalt	7440-48-4	3.57		0.0201	0.101		2
06133	Copper	7440-50-8	8.12		0.0804	0.402		2
06135	Lead	7439-92-1	6.86		0.0103	0.201		2
06138	Molybdenum	7439-98-7	0.558		0.0503	0.101		2
06139	Nickel	7440-02-0	8.93		0.101	0.402		2
06141	Selenium	7782-49-2	0.0966	J	0.0583	0.402		2
06142	Silver	7440-22-4	0.197		0.0143	0.101		2
06145	Thallium	7440-28-0	0.186		0.0302	0.101		2
06148	Vanadium	7440-62-2	27.3		0.0221	0.101		2
06149	Zinc	7440-66-6	80.6		0.563	3.02		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0184	J	0.0072	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.84	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.3		0.84	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.08		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-040-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA6-SS-0.0-0.5

LLI Sample # SW 6343398
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:45

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9906 SDG#: DE199-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11201SLH026	07/30/2011 03:54	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLL026	07/22/2011 19:55	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLL026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11201SLH026	07/21/2011 06:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112010012A	07/23/2011 06:03	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112130022A	08/03/2011 19:26	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112010008A	08/12/2011 17:40	Jamie L Brillhart	100
01363	12a Pesticides by 8081A	SW-846 8081A	1	112010008A	08/17/2011 02:05	Jamie L Brillhart	250
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112020012A	07/23/2011 02:06	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112010008A	07/20/2011 16:00	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112020012A	07/21/2011 18:35	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112010012A	07/20/2011 20:30	Elaine F Stoltzfus	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112130022A	08/02/2011 10:45	Maria Davenport	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111960030A	07/16/2011 22:53	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111960003A	07/15/2011 15:48	Dustin A Underkoffler	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020030A	07/23/2011 06:09	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112020030A	07/22/2011 07:00	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111960030A	07/16/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111960003A	07/15/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111995708002	07/24/2011 23:54	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111995708002	07/24/2011 23:54	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111995708002	07/26/2011 00:43	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111995708002	07/24/2011 23:54	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111995708002	07/24/2011 23:54	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111995708002	07/26/2011 00:43	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111995708002	07/24/2011 23:54	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111995708002	07/24/2011 23:54	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111995708002	07/26/2011 00:43	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111995708002	07/26/2011 00:43	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111995708002	07/24/2011 23:54	Tara L Snyder	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-040-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA6-SS-0.0-0.5

LLI Sample # SW 6343398
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:45

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9906 SDG#: DE199-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111995708002	07/24/2011 23:54	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111995708002	07/24/2011 23:54	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111995708002	07/24/2011 23:54	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111991026001A	07/23/2011 01:47	David K Beck	2
06125	Arsenic	SW-846 6020	1	111991026001A	07/23/2011 01:47	David K Beck	2
06126	Barium	SW-846 6020	1	111991026001D	07/23/2011 01:47	David K Beck	2
06127	Beryllium	SW-846 6020	1	111991026001A	07/23/2011 01:47	David K Beck	2
06128	Cadmium	SW-846 6020	1	111991026001A	07/23/2011 01:47	David K Beck	2
06131	Chromium	SW-846 6020	1	111991026001A	07/23/2011 01:47	David K Beck	2
06132	Cobalt	SW-846 6020	1	111991026001A	07/23/2011 01:47	David K Beck	2
06133	Copper	SW-846 6020	1	111991026001A	07/23/2011 01:47	David K Beck	2
06135	Lead	SW-846 6020	1	111991026001A	07/23/2011 01:47	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111991026001C	07/23/2011 01:47	David K Beck	2
06139	Nickel	SW-846 6020	1	111991026001A	07/23/2011 01:47	David K Beck	2
06141	Selenium	SW-846 6020	1	111991026001B	07/23/2011 01:47	David K Beck	2
06142	Silver	SW-846 6020	1	111991026001A	07/23/2011 01:47	David K Beck	2
06145	Thallium	SW-846 6020	1	111991026001A	07/23/2011 01:47	David K Beck	2
06148	Vanadium	SW-846 6020	1	111991026001A	07/23/2011 01:47	David K Beck	2
06149	Zinc	SW-846 6020	1	111991026001A	07/23/2011 01:47	David K Beck	2
00159	Mercury	SW-846 7471A	1	111995711002	07/18/2011 18:53	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708002	07/18/2011 12:05	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026001	07/18/2011 11:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711002	07/18/2011 13:38	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621201A	07/28/2011 00:20	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11207621201A	07/28/2011 00:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621202A	07/29/2011 03:58	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11211243201A	08/01/2011 17:04	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621201A	07/26/2011 07:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621202A	07/19/2011 07:45	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039403A	07/25/2011 21:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11211243201A	07/30/2011 08:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11202162401A	07/21/2011 18:53	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-047-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA6-SS-0.0-0.5

LLI Sample # SW 6343399
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:53

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9907 SDG#: DE199-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	16.9	U	16.9	33.7		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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SSFL Area IV Collocated Soil Sampling
SL-047-SA6-SS-0.0-0.5

LLI Sample # SW 6343399
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:53

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9907 SDG#: DE199-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	20	J	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.3	J	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.5	J	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	2.9		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.90	J	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.2	J	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.4	J	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	8.9	J	6.1	18		1
10138	Chrysene	218-01-9	5.2		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	2.9		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.89	J	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Phenanthrene	85-01-8	1.2	J	0.67	1.7		1
10138	Pyrene	129-00-0	1.7		0.67	1.7		1
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate 7.9 ug/kg These blank values were not subtracted from the analytical results.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-047-SA6-SS-0.0-0.5

LLI Sample # SW 6343399
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:53

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E9907 SDG#: DE199-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	0.62	U	0.62	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	380		75	250		1
10401	2,4,5-T	93-76-5	0.39	U	0.39	0.39		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1

The LCS data for dinoseb and 2,4,5-TP is outside the QC limits. Results from the reextraction are within the limits. Dicamba, MCPP, and 2,4,5-T were detected in the method blank. These analytes were not detected in the method

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SSFL Area IV Collocated Soil Sampling
SL-047-SA6-SS-0.0-0.5

LLI Sample # SW 6343399
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E9907 SDG#: DE199-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	blank associated with the reextraction. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that MCPP was not detected in the reextract. Reporting limits were raised for 2,4,5-T due to interference from the sample matrix.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.045	J	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.29	U	0.29	0.34		1
01363	p,p-DDT	50-29-3	0.68	U	0.68	0.68		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.14	U	0.14	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.11	U	0.11	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.091	U	0.091	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.043	U	0.043	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.21	U	0.21	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	2.3	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	6.0		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1

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SL-047-SA6-SS-0.0-0.5

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E9907 SDG#: DE199-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	1.1	J	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	10		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	20		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,400		6.12	20.2		1
07914	Boron	7440-42-8	1.00	J	0.364	5.06		1
01650	Calcium	7440-70-2	2,350		2.53	20.2		1
01654	Iron	7439-89-6	17,700		2.64	20.2		1
01656	Lithium	7439-93-2	21.6		0.63	2.0		1
01657	Magnesium	7439-95-4	3,800		0.445	10.1		1
06958	Manganese	7439-96-5	234		0.0364	0.506		1
10145	Phosphorus	7723-14-0	345		0.354	10.1		1
01662	Potassium	7440-09-7	3,670		11.4	50.6		1
01667	Sodium	7440-23-5	53.9	J	6.02	101		1
07968	Strontium	7440-24-6	11.5		0.0253	0.506		1
06969	Tin	7440-31-5	2.30	J	0.324	10.1		1
06970	Titanium	7440-32-6	916		0.0718	1.01		1
10146	Zirconium	7440-67-7	1.64	J	0.465	5.06		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0748	U	0.0748	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.98		0.0809	0.404		2
06126	Barium	7440-39-3	79.2		0.107	0.404		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-047-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA6-SS-0.0-0.5

LLI Sample # SW 6343399
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:53

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9907 SDG#: DE199-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.485		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.119		0.0445	0.101		2
06131	Chromium	7440-47-3	15.5		0.121	0.404		2
06132	Cobalt	7440-48-4	4.40		0.0202	0.101		2
06133	Copper	7440-50-8	6.58		0.0809	0.404		2
06135	Lead	7439-92-1	10.8		0.0103	0.202		2
06138	Molybdenum	7439-98-7	0.465		0.0506	0.101		2
06139	Nickel	7440-02-0	8.78		0.101	0.404		2
06141	Selenium	7782-49-2	0.177	J	0.0586	0.404		2
06142	Silver	7440-22-4	0.0633	J	0.0144	0.101		2
06145	Thallium	7440-28-0	0.285		0.0303	0.101		2
06148	Vanadium	7440-62-2	29.2		0.0222	0.101		2
06149	Zinc	7440-66-6	58.9		0.566	3.03		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0232	J	0.0070	0.0996		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.3		0.80	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	0.98		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.75		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-047-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA6-SS-0.0-0.5

LLI Sample # SW 6343399
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:53

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9907 SDG#: DE199-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11201SLB026	07/21/2011 17:40	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11201SLH026	07/30/2011 04:20	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLL026	07/22/2011 20:26	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11201SLB026	07/20/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLL026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11201SLH026	07/21/2011 06:30	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	112070007A	07/28/2011 03:06	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111970007A	07/19/2011 00:03	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112010012A	07/23/2011 06:30	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112010008A	08/12/2011 21:26	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112020012A	07/23/2011 02:25	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112010008A	07/20/2011 16:00	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112020012A	07/21/2011 18:35	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112010012A	07/20/2011 20:30	Elaine F Stoltzfus	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111970007A	07/17/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112070007A	07/26/2011 15:15	Kelli M Barto	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111960030A	07/16/2011 23:08	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111960003A	07/15/2011 16:39	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112020029A	07/22/2011 15:24	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020030A	07/23/2011 00:17	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112020030A	07/22/2011 07:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112020029A	07/22/2011 07:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111960030A	07/16/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111960003A	07/15/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111995708002	07/24/2011 23:58	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111995708002	07/24/2011 23:58	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111995708002	07/26/2011 00:47	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111995708002	07/24/2011 23:58	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111995708002	07/24/2011 23:58	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111995708002	07/26/2011 00:47	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111995708002	07/24/2011 23:58	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111995708002	07/24/2011 23:58	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111995708002	07/26/2011 00:47	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111995708002	07/26/2011 00:47	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111995708002	07/24/2011 23:58	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111995708002	07/24/2011 23:58	Tara L Snyder	1

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Sample Description: SL-047-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA6-SS-0.0-0.5

LLI Sample # SW 6343399
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:53

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9907 SDG#: DE199-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111995708002	07/24/2011 23:58	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111995708002	07/24/2011 23:58	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111991026001A	07/23/2011 01:50	David K Beck	2
06125	Arsenic	SW-846 6020	1	111991026001A	07/23/2011 01:50	David K Beck	2
06126	Barium	SW-846 6020	1	111991026001D	07/23/2011 01:50	David K Beck	2
06127	Beryllium	SW-846 6020	1	111991026001A	07/23/2011 01:50	David K Beck	2
06128	Cadmium	SW-846 6020	1	111991026001A	07/23/2011 01:50	David K Beck	2
06131	Chromium	SW-846 6020	1	111991026001A	07/23/2011 01:50	David K Beck	2
06132	Cobalt	SW-846 6020	1	111991026001A	07/23/2011 01:50	David K Beck	2
06133	Copper	SW-846 6020	1	111991026001A	07/23/2011 01:50	David K Beck	2
06135	Lead	SW-846 6020	1	111991026001A	07/23/2011 01:50	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111991026001C	07/23/2011 01:50	David K Beck	2
06139	Nickel	SW-846 6020	1	111991026001A	07/23/2011 01:50	David K Beck	2
06141	Selenium	SW-846 6020	1	111991026001B	07/23/2011 01:50	David K Beck	2
06142	Silver	SW-846 6020	1	111991026001A	07/23/2011 01:50	David K Beck	2
06145	Thallium	SW-846 6020	1	111991026001A	07/23/2011 01:50	David K Beck	2
06148	Vanadium	SW-846 6020	1	111991026001A	07/23/2011 01:50	David K Beck	2
06149	Zinc	SW-846 6020	1	111991026001A	07/23/2011 01:50	David K Beck	2
00159	Mercury	SW-846 7471A	1	111995711002	07/18/2011 18:54	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708002	07/18/2011 12:05	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026001	07/18/2011 11:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711002	07/18/2011 13:38	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621201A	07/28/2011 00:34	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11207621201A	07/28/2011 00:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621202A	07/29/2011 04:21	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11211243201A	08/01/2011 17:17	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11201102201A	07/21/2011 18:53	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621201A	07/26/2011 07:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621202A	07/19/2011 07:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11201102201A	07/20/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039403A	07/25/2011 21:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11211243201A	07/30/2011 08:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-059-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA6-SS-0.0-0.5

LLI Sample # SW 6343400
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:23

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9908 SDG#: DE199-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	29	J	17	170		1
04688	Aniline	62-53-3	170	U	170	500		1
04688	Anthracene	120-12-7	52	J	17	170		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	190		17	170		1
04688	Benzo(a)pyrene	50-32-8	150	J	17	170		1
04688	Benzo(b)fluoranthene	205-99-2	200		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	79	J	17	170		1
04688	Benzo(k)fluoranthene	207-08-9	90	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	36	J	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Chrysene	218-01-9	180		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	26	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Fluoranthene	206-44-0	350		17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	79	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-059-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA6-SS-0.0-0.5

LLI Sample # SW 6343400
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:23

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9908 SDG#: DE199-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenanthrene	85-01-8	220		17	170		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	250		17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthylene	208-96-8	1.1	J	0.34	1.7		1
10138	Butylbenzylphthalate	85-68-7	7.4	J	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	10	J	6.0	18		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	24		6.0	18		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	7.5	J	6.0	18		1
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate 7.9 ug/kg bis(2-ethylhexyl)phthalate 6.5 ug/kg These blank values were not subtracted from the analytical results.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	44	U	44	90		10
10401	2,4-DB	94-82-6	6.2	U	6.2	17		10
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-059-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA6-SS-0.0-0.5

LLI Sample # SW 6343400
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:23

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9908 SDG#: DE199-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	Dinoseb	88-85-7	24	U	24	24		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	910		76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.67	U	0.67	0.67		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1

The LCS data for dinoseb and 2,4,5-TP is outside the QC limits. Results from the reextraction are within the limits. Dicamba, MCPP, and 2,4,5-T were detected in the method blank. These analytes were not detected in the method blank associated with the reextraction. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. There was interference in the retention time window for Dalapon and 2,4-DB in the original extraction causing the reporting limits to be raised. This interference was not present in the reextract. MCPA was not detected in the reextract.

Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.0		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.80	U	0.80	3.4		1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34		1
01363	p,p-DDE	72-55-9	0.20	U	0.20	0.34		1
01363	p,p-DDT	50-29-3	1.1		0.066	0.34		1
01363	Delta BHC	319-86-8	0.071	J	0.036	0.17		1
01363	Dieldrin	60-57-1	0.29	U	0.29	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.14	U	0.14	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.11	U	0.11	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.29	U	0.29	0.34		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.090	U	0.090	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.0	U	5.0	17		5
10225	Aroclor 5442	12642-23-8	5.0	U	5.0	17		5

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Sample Description: SL-059-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA6-SS-0.0-0.5

LLI Sample # SW 6343400
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:23

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9908 SDG#: DE199-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5460	11126-42-4	81		5.0	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.5		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.5		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.5		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.5		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.5		5
10225	PCB-1254	11097-69-1	20		1.7	8.5		5
10225	PCB-1260	11096-82-5	2.0	U	2.0	8.5		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.5		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.5		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	0.68	J	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	6.1		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	15		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	8,010		5.85	19.3		1
07914	Boron	7440-42-8	0.632	J	0.348	4.83		1
01650	Calcium	7440-70-2	2,890		2.42	19.3		1
01654	Iron	7439-89-6	14,200		2.52	19.3		1
01656	Lithium	7439-93-2	50.3		0.60	1.9		1
01657	Magnesium	7439-95-4	3,470		0.425	9.66		1
06958	Manganese	7439-96-5	212		0.0348	0.483		1
10145	Phosphorus	7723-14-0	298		0.338	9.66		1
01662	Potassium	7440-09-7	2,710		10.9	48.3		1
01667	Sodium	7440-23-5	99.4		5.75	96.6		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-059-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA6-SS-0.0-0.5

LLI Sample # SW 6343400
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:23

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9908 SDG#: DE199-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07968	Strontium	7440-24-6	7.02		0.0242	0.483		1
06969	Tin	7440-31-5	2.06	J	0.309	9.66		1
06970	Titanium	7440-32-6	784		0.0686	0.966		1
10146	Zirconium	7440-67-7	1.60	J	0.445	4.83		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0715	U	0.0715	0.193		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.16		0.0773	0.387		2
06126	Barium	7440-39-3	52.0		0.102	0.387		2
06127	Beryllium	7440-41-7	0.300		0.0155	0.0966		2
06128	Cadmium	7440-43-9	0.190		0.0425	0.0966		2
06131	Chromium	7440-47-3	12.5		0.116	0.387		2
06132	Cobalt	7440-48-4	3.20		0.0193	0.0966		2
06133	Copper	7440-50-8	4.29		0.0773	0.387		2
06135	Lead	7439-92-1	9.90		0.0099	0.193		2
06138	Molybdenum	7439-98-7	0.354		0.0483	0.0966		2
06139	Nickel	7440-02-0	7.32		0.0966	0.387		2
06141	Selenium	7782-49-2	0.0842	J	0.0561	0.387		2
06142	Silver	7440-22-4	0.0194	J	0.0137	0.0966		2
06145	Thallium	7440-28-0	0.186		0.0290	0.0966		2
06148	Vanadium	7440-62-2	19.9		0.0213	0.0966		2
06149	Zinc	7440-66-6	54.5		0.541	2.90		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.400		0.0070	0.0996		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.0	U	9.0	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.27		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.51		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-059-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA6-SS-0.0-0.5

LLI Sample # SW 6343400
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:23

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9908 SDG#: DE199-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11201SLH026	07/30/2011 04:45	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLL026	07/22/2011 20:58	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLL026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11201SLH026	07/21/2011 06:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112010012A	07/23/2011 06:58	Anita M Dale	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112010012A	08/09/2011 17:15	Anita M Dale	10
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112130022A	08/03/2011 19:33	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112010008A	08/12/2011 21:41	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112020012A	07/23/2011 02:43	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112010008A	07/20/2011 16:00	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112020012A	07/21/2011 18:35	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112010012A	07/20/2011 20:30	Elaine F Stoltzfus	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112130022A	08/02/2011 10:45	Maria Davenport	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111960030A	07/16/2011 23:23	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111960003A	07/15/2011 16:52	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112020029A	07/22/2011 16:09	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020030A	07/23/2011 00:42	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112020030A	07/22/2011 07:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112020029A	07/22/2011 07:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111960030A	07/16/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111960003A	07/15/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111995708002	07/24/2011 23:01	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111995708002	07/24/2011 23:01	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111995708002	07/25/2011 23:40	John W Yanzuk II	1

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Sample Description: SL-059-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA6-SS-0.0-0.5

LLI Sample # SW 6343400
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:23

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9908 SDG#: DE199-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	111995708002	07/24/2011 23:01	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111995708002	07/24/2011 23:01	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111995708002	07/25/2011 23:40	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111995708002	07/24/2011 23:01	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111995708002	07/24/2011 23:01	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111995708002	07/25/2011 23:40	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111995708002	07/25/2011 23:40	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111995708002	07/24/2011 23:01	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111995708002	07/24/2011 23:01	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111995708002	07/24/2011 23:01	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111995708002	07/24/2011 23:01	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111991026001A	07/23/2011 01:54	David K Beck	2
06125	Arsenic	SW-846 6020	1	111991026001A	07/23/2011 01:54	David K Beck	2
06126	Barium	SW-846 6020	1	111991026001D	07/23/2011 01:54	David K Beck	2
06127	Beryllium	SW-846 6020	1	111991026001A	07/23/2011 01:54	David K Beck	2
06128	Cadmium	SW-846 6020	1	111991026001A	07/23/2011 01:54	David K Beck	2
06131	Chromium	SW-846 6020	1	111991026001A	07/23/2011 01:54	David K Beck	2
06132	Cobalt	SW-846 6020	1	111991026001A	07/23/2011 01:54	David K Beck	2
06133	Copper	SW-846 6020	1	111991026001A	07/23/2011 01:54	David K Beck	2
06135	Lead	SW-846 6020	1	111991026001A	07/23/2011 01:54	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111991026001C	07/23/2011 01:54	David K Beck	2
06139	Nickel	SW-846 6020	1	111991026001A	07/23/2011 01:54	David K Beck	2
06141	Selenium	SW-846 6020	1	111991026001B	07/23/2011 01:54	David K Beck	2
06142	Silver	SW-846 6020	1	111991026001A	07/23/2011 01:54	David K Beck	2
06145	Thallium	SW-846 6020	1	111991026001A	07/23/2011 01:54	David K Beck	2
06148	Vanadium	SW-846 6020	1	111991026001A	07/23/2011 01:54	David K Beck	2
06149	Zinc	SW-846 6020	1	111991026001A	07/23/2011 01:54	David K Beck	2
00159	Mercury	SW-846 7471A	1	111995711002	07/18/2011 18:55	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708002	07/18/2011 12:05	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026001	07/18/2011 11:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711002	07/18/2011 13:38	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621201A	07/28/2011 14:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621202A	07/29/2011 04:44	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11211243201A	08/01/2011 17:37	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621201A	07/26/2011 07:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621202A	07/19/2011 07:45	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039403A	07/25/2011 21:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11211243201A	07/30/2011 08:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11202162401A	07/21/2011 18:53	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-066-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA6-SS-0.0-0.5

LLI Sample # SW 6343401
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 14:43

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9909 SDG#: DE199-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	169	U	169	337		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Sample Description: SL-066-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA6-SS-0.0-0.5

LLI Sample # SW 6343401
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 14:43

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9909 SDG#: DE199-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.67	U	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	8.4	J	6.1	18		1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.7	J	6.1	18		1
10138	Fluoranthene	206-44-0	0.67	U	0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	J	6.1	18		1
10138	Phenanthrene	85-01-8	0.67	U	0.67	1.7		1
10138	Pyrene	129-00-0	0.67	U	0.67	1.7		1
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate 7.9 ug/kg bis(2-ethylhexyl)phthalate 6.5 ug/kg These blank values were not subtracted from the analytical results.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-066-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA6-SS-0.0-0.5

LLI Sample # SW 6343401
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 14:43

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9909 SDG#: DE199-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	2.0	U	2.0	2.0		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1

The LCS data for dinoseb and 2,4,5-TP is outside the QC limits. Results from

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Sample Description: SL-066-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA6-SS-0.0-0.5

LLI Sample # SW 6343401
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 14:43

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E9909 SDG#: DE199-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	the reextraction are within the limits. Dicamba, MCPP, and 2,4,5-T were detected in the method blank. These analytes were not detected in the method blank associated with the reextraction. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.067	U	0.067	0.34		1
01363	p,p-DDT	50-29-3	0.32	J	0.067	0.34		1
01363	Delta BHC	319-86-8	0.054	J	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.090	J	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.073	J	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.31	J	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1

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Sample Description: SL-066-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA6-SS-0.0-0.5

LLI Sample # SW 6343401
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 14:43

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

E9909 SDG#: DE199-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	0.95	J	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	7.3		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	20		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900		6.06	20.0		1
07914	Boron	7440-42-8	1.02	J	0.361	5.01		1
01650	Calcium	7440-70-2	2,040		2.51	20.0		1
01654	Iron	7439-89-6	18,900		2.62	20.0		1
01656	Lithium	7439-93-2	22.4		0.62	2.0		1
01657	Magnesium	7439-95-4	4,270		0.441	10.0		1
06958	Manganese	7439-96-5	227		0.0361	0.501		1
10145	Phosphorus	7723-14-0	297		0.351	10.0		1
01662	Potassium	7440-09-7	2,950		11.3	50.1		1
01667	Sodium	7440-23-5	59.0	J	5.96	100		1
07968	Strontium	7440-24-6	13.6		0.0251	0.501		1
06969	Tin	7440-31-5	2.05	J	0.321	10.0		1
06970	Titanium	7440-32-6	963		0.0712	1.00		1
10146	Zirconium	7440-67-7	1.84	J	0.461	5.01		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0749	U	0.0749	0.202		2

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Sample Description: SL-066-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA6-SS-0.0-0.5

LLI Sample # SW 6343401
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 14:43

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E9909 SDG#: DE199-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.43		0.0810	0.405		2
06126	Barium	7440-39-3	58.6		0.107	0.405		2
06127	Beryllium	7440-41-7	0.433		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.0810	J	0.0445	0.101		2
06131	Chromium	7440-47-3	13.4		0.121	0.405		2
06132	Cobalt	7440-48-4	3.71		0.0202	0.101		2
06133	Copper	7440-50-8	5.12		0.0810	0.405		2
06135	Lead	7439-92-1	4.78		0.0103	0.202		2
06138	Molybdenum	7439-98-7	0.343		0.0506	0.101		2
06139	Nickel	7440-02-0	7.51		0.101	0.405		2
06141	Selenium	7782-49-2	0.0776	J	0.0587	0.405		2
06142	Silver	7440-22-4	0.0257	J	0.0144	0.101		2
06145	Thallium	7440-28-0	0.209		0.0304	0.101		2
06148	Vanadium	7440-62-2	27.2		0.0223	0.101		2
06149	Zinc	7440-66-6	45.5		0.567	3.04		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0454	J	0.0068	0.0973		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.80	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	6.6		0.80	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.58	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.56		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-066-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA6-SS-0.0-0.5

LLI Sample # SW 6343401
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 14:43

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9909 SDG#: DE199-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11201SLB026	07/21/2011 18:19	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11201SLH026	07/30/2011 05:11	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLL026	07/22/2011 21:29	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11201SLB026	07/20/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLL026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11201SLH026	07/21/2011 06:30	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	112070007A	07/28/2011 03:48	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111970007A	07/19/2011 00:12	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112010012A	07/23/2011 07:25	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112010008A	08/13/2011 00:05	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112020012A	07/23/2011 03:02	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112010008A	07/20/2011 16:00	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112020012A	07/21/2011 18:35	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112010012A	07/20/2011 20:30	Elaine F Stoltzfus	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111970007A	07/17/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112070007A	07/26/2011 15:15	Kelli M Barto	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111960030A	07/16/2011 23:37	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111960003A	07/15/2011 17:05	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112020029A	07/22/2011 16:54	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020030A	07/23/2011 01:08	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112020030A	07/22/2011 07:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112020029A	07/22/2011 07:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111960030A	07/16/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111960003A	07/15/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111995708002	07/25/2011 00:02	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111995708002	07/25/2011 00:02	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111995708002	07/26/2011 00:51	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111995708002	07/25/2011 00:02	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111995708002	07/25/2011 00:02	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111995708002	07/26/2011 00:51	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-066-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA6-SS-0.0-0.5

LLI Sample # SW 6343401
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 14:43

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9909 SDG#: DE199-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	111995708002	07/25/2011 00:02	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111995708002	07/25/2011 00:02	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111995708002	07/26/2011 00:51	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111995708002	07/26/2011 00:51	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111995708002	07/25/2011 00:02	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111995708002	07/25/2011 00:02	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111995708002	07/25/2011 00:02	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111995708002	07/25/2011 00:02	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111991026001A	07/23/2011 01:57	David K Beck	2
06125	Arsenic	SW-846 6020	1	111991026001A	07/23/2011 01:57	David K Beck	2
06126	Barium	SW-846 6020	1	111991026001D	07/23/2011 01:57	David K Beck	2
06127	Beryllium	SW-846 6020	1	111991026001A	07/23/2011 01:57	David K Beck	2
06128	Cadmium	SW-846 6020	1	111991026001A	07/23/2011 01:57	David K Beck	2
06131	Chromium	SW-846 6020	1	111991026001A	07/23/2011 01:57	David K Beck	2
06132	Cobalt	SW-846 6020	1	111991026001A	07/23/2011 01:57	David K Beck	2
06133	Copper	SW-846 6020	1	111991026001A	07/23/2011 01:57	David K Beck	2
06135	Lead	SW-846 6020	1	111991026001A	07/23/2011 01:57	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111991026001C	07/23/2011 01:57	David K Beck	2
06139	Nickel	SW-846 6020	1	111991026001A	07/23/2011 01:57	David K Beck	2
06141	Selenium	SW-846 6020	1	111991026001B	07/23/2011 01:57	David K Beck	2
06142	Silver	SW-846 6020	1	111991026001A	07/23/2011 01:57	David K Beck	2
06145	Thallium	SW-846 6020	1	111991026001A	07/23/2011 01:57	David K Beck	2
06148	Vanadium	SW-846 6020	1	111991026001A	07/23/2011 01:57	David K Beck	2
06149	Zinc	SW-846 6020	1	111991026001A	07/23/2011 01:57	David K Beck	2
00159	Mercury	SW-846 7471A	1	111995711002	07/18/2011 18:59	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708002	07/18/2011 12:05	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026001	07/18/2011 11:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711002	07/18/2011 13:38	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621201A	07/28/2011 00:49	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11207621201A	07/28/2011 00:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621202A	07/29/2011 05:08	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11211243201A	08/01/2011 17:51	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11201102201A	07/21/2011 18:55	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621201A	07/26/2011 07:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621202A	07/19/2011 07:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11201102201A	07/20/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039403A	07/25/2011 21:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11211243201A	07/30/2011 08:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-067-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA6-SS-0.0-0.5

LLI Sample # SW 6343402
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 14:13

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9910 SDG#: DE199-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	168	U	168	337		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-067-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA6-SS-0.0-0.5

LLI Sample # SW 6343402
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 14:13

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9910 SDG#: DE199-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	3.4	U	3.4	8.4		5
10138	Benzo(a)pyrene	50-32-8	4.8	J	3.4	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	8.6		3.4	8.4		5
10138	Benzo(g,h,i)perylene	191-24-2	4.2	J	3.4	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	3.4	U	3.4	8.4		5
10138	Butylbenzylphthalate	85-68-7	62	J	30	91		5
10138	Chrysene	218-01-9	3.3	J	1.7	8.4		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	89	J	30	91		5
10138	Fluoranthene	206-44-0	6.3	J	3.4	8.4		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6	J	3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4		5
10138	Di-n-octylphthalate	117-84-0	34	J	30	91		5
10138	Phenanthrene	85-01-8	3.4	J	3.4	8.4		5
10138	Pyrene	129-00-0	4.6	J	3.4	8.4		5
	Reporting limits were raised due to interference from the sample matrix.							
	The following compounds were detected in the method blank at the respective concentrations of: bis(2-ethylhexyl)phthalate 6.5 ug/kg These blank values were not subtracted from the analytical results.							
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-067-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA6-SS-0.0-0.5

LLI Sample # SW 6343402
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 14:13

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9910 SDG#: DE199-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	0.63	U	0.63	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	560	U	560	560		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.18	U	0.18	0.18		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

The LCS data for dinoseb and 2,4,5-TP is outside the QC limits. Results from

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Sample Description: SL-067-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA6-SS-0.0-0.5

LLI Sample # SW 6343402
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 14:13

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9910 SDG#: DE199-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	the reextraction are within the limits. Dicamba, MCPP, and 2,4,5-T were detected in the method blank. These analytes were not detected in the method blank associated with the reextraction. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. There was interference in the retention time window for MCPA and 2,4,5-T in the original extraction causing the reporting limits to be raised. This interference was not present in the reextract.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.054	J	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.50		0.067	0.34		1
01363	p,p-DDT	50-29-3	0.98		0.067	0.34		1
01363	Delta BHC	319-86-8	0.22		0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.081	U	0.081	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.39	U	0.39	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.32	U	0.32	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.21	U	0.21	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	23		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	11		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1

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Sample Description: SL-067-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA6-SS-0.0-0.5

LLI Sample # SW 6343402
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 14:13

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9910 SDG#: DE199-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	1.9		0.40	1.2		1
10199	EFH (C21-C30)	n.a.	22		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	42		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	1.5		0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,400		6.11	20.2		1
07914	Boron	7440-42-8	1.31	J	0.364	5.05		1
01650	Calcium	7440-70-2	2,500		2.53	20.2		1
01654	Iron	7439-89-6	18,500		2.64	20.2		1
01656	Lithium	7439-93-2	22.9		0.63	2.0		1
01657	Magnesium	7439-95-4	4,060		0.444	10.1		1
06958	Manganese	7439-96-5	238		0.0364	0.505		1
10145	Phosphorus	7723-14-0	345		0.354	10.1		1
01662	Potassium	7440-09-7	3,430		11.4	50.5		1
01667	Sodium	7440-23-5	63.0	J	6.01	101		1
07968	Strontium	7440-24-6	14.1		0.0253	0.505		1
06969	Tin	7440-31-5	2.24	J	0.323	10.1		1
06970	Titanium	7440-32-6	946		0.0717	1.01		1
10146	Zirconium	7440-67-7	2.06	J	0.465	5.05		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0733	U	0.0733	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.99		0.0792	0.396		2
06126	Barium	7440-39-3	85.5		0.105	0.396		2

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Sample Description: SL-067-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA6-SS-0.0-0.5

LLI Sample # SW 6343402
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 14:13

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9910 SDG#: DE199-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.493		0.0158	0.0990		2
06128	Cadmium	7440-43-9	0.142		0.0436	0.0990		2
06131	Chromium	7440-47-3	15.6		0.119	0.396		2
06132	Cobalt	7440-48-4	4.53		0.0198	0.0990		2
06133	Copper	7440-50-8	6.37		0.0792	0.396		2
06135	Lead	7439-92-1	7.95		0.0101	0.198		2
06138	Molybdenum	7439-98-7	0.453		0.0495	0.0990		2
06139	Nickel	7440-02-0	9.31		0.0990	0.396		2
06141	Selenium	7782-49-2	0.112	J	0.0574	0.396		2
06142	Silver	7440-22-4	0.0291	J	0.0141	0.0990		2
06145	Thallium	7440-28-0	0.245		0.0297	0.0990		2
06148	Vanadium	7440-62-2	31.3		0.0218	0.0990		2
06149	Zinc	7440-66-6	57.9		0.555	2.97		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0258	J	0.0068	0.0967		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	7.9		0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	0.99		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.17	U	0.17	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.55		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.0		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-067-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA6-SS-0.0-0.5

LLI Sample # SW 6343402
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 14:13

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9910 SDG#: DE199-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11201SLB026	07/21/2011 18:38	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11201SLH026	07/30/2011 05:36	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLL026	07/25/2011 07:57	Brian K Graham	5
11630	NDMA Soil Microwave	SW-846 3546	1	11201SLB026	07/20/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLL026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11201SLH026	07/21/2011 06:30	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	112070007A	07/28/2011 05:55	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111970007A	07/19/2011 00:22	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112010012A	07/23/2011 07:53	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112010008A	08/12/2011 21:55	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112020012A	07/23/2011 03:20	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112010008A	07/20/2011 16:00	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112020012A	07/21/2011 18:35	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112010012A	07/20/2011 20:30	Elaine F Stoltzfus	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111970007A	07/17/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112070007A	07/26/2011 15:15	Kelli M Barto	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111960030A	07/16/2011 23:52	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111960003A	07/15/2011 17:18	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112020029A	07/22/2011 22:52	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020030A	07/23/2011 01:33	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112020030A	07/22/2011 07:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112020029A	07/22/2011 07:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111960030A	07/16/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111960003A	07/15/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111995708002	07/25/2011 00:06	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111995708002	07/25/2011 00:06	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111995708002	07/26/2011 00:56	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111995708002	07/25/2011 00:06	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111995708002	07/25/2011 00:06	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111995708002	07/26/2011 00:56	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111995708002	07/25/2011 00:06	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111995708002	07/25/2011 00:06	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111995708002	07/26/2011 00:56	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111995708002	07/26/2011 00:56	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111995708002	07/25/2011 00:06	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111995708002	07/25/2011 00:06	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111995708002	07/25/2011 00:06	Tara L Snyder	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-067-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA6-SS-0.0-0.5

LLI Sample # SW 6343402
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 14:13

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E9910 SDG#: DE199-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111995708002	07/25/2011 00:06	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111991026001A	07/23/2011 02:00	David K Beck	2
06125	Arsenic	SW-846 6020	1	111991026001A	07/23/2011 02:00	David K Beck	2
06126	Barium	SW-846 6020	1	111991026001D	07/23/2011 02:00	David K Beck	2
06127	Beryllium	SW-846 6020	1	111991026001A	07/23/2011 02:00	David K Beck	2
06128	Cadmium	SW-846 6020	1	111991026001A	07/23/2011 02:00	David K Beck	2
06131	Chromium	SW-846 6020	1	111991026001A	07/23/2011 02:00	David K Beck	2
06132	Cobalt	SW-846 6020	1	111991026001A	07/23/2011 02:00	David K Beck	2
06133	Copper	SW-846 6020	1	111991026001A	07/23/2011 02:00	David K Beck	2
06135	Lead	SW-846 6020	1	111991026001A	07/23/2011 02:00	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111991026001C	07/23/2011 02:00	David K Beck	2
06139	Nickel	SW-846 6020	1	111991026001A	07/23/2011 02:00	David K Beck	2
06141	Selenium	SW-846 6020	1	111991026001B	07/23/2011 02:00	David K Beck	2
06142	Silver	SW-846 6020	1	111991026001A	07/23/2011 02:00	David K Beck	2
06145	Thallium	SW-846 6020	1	111991026001A	07/23/2011 02:00	David K Beck	2
06148	Vanadium	SW-846 6020	1	111991026001A	07/23/2011 02:00	David K Beck	2
06149	Zinc	SW-846 6020	1	111991026001A	07/23/2011 02:00	David K Beck	2
00159	Mercury	SW-846 7471A	1	111995711002	07/18/2011 19:00	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708002	07/18/2011 12:05	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026001	07/18/2011 11:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711002	07/18/2011 13:38	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621201A	07/28/2011 01:04	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11207621201A	07/28/2011 01:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621202A	07/29/2011 05:31	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11211243201A	08/01/2011 18:04	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11201102201A	07/21/2011 18:56	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621201A	07/26/2011 07:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621202A	07/19/2011 07:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11201102201A	07/20/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039403B	07/25/2011 21:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11211243201A	07/30/2011 08:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-278-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-278-SA6-SS-0.0-0.5

LLI Sample # SW 6343403
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:10

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9911 SDG#: DE199-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.7	J	7.0	8.4		1.03
06192	Benzene	71-43-2	0.11	U	0.11	4.2		1.03
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		1.03
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		1.03
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		1.03
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		1.03
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		1.03
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		1.03
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		1.03
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		1.03
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		1.03
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		1.03
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		1.03
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		1.03
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		1.03
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		1.03
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		1.03
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		1.03
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		1.03
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		1.03
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		1.03
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		1.03
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		1.03
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		1.03
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		1.03
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		1.03
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		1.03
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		1.03
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		1.03
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		1.03
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		1.03
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		1.03
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		1.03
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		1.03
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		1.03
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		1.03
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		1.03
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		1.03
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		1.03
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		1.03
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		1.03
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		1.03
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		1.03
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		1.03
06192	Isopropylbenzene	98-82-8	0.29	J	0.06	4.2		1.03
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		1.03
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		1.03
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		1.03
06192	Methylene Chloride	75-09-2	1.3	J	0.25	4.2		1.03
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		1.03

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-278-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-278-SA6-SS-0.0-0.5

LLI Sample # SW 6343403
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:10

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9911 SDG#: DE199-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		1.03
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		1.03
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		1.03
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		1.03
06192	Toluene	108-88-3	0.36	J	0.08	4.2		1.03
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		1.03
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		1.03
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		1.03
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		1.03
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		1.03
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		1.03
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		1.03
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		1.03
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		1.03
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		1.03
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		1.03
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		1.03
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		26.15
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	1,710	U	1,710	3,420		100
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	1,700	U	1,700	5,100		10
04688	Benzidine	92-87-5	12,000	U	12,000	34,000		10
04688	Benzoic acid	65-85-0	1,700	U	1,700	5,100		10
04688	Benzyl alcohol	100-51-6	1,700	U	1,700	5,100		10
04688	4-Bromophenyl-phenylether	101-55-3	170	U	170	1,700		10
04688	Carbazole	86-74-8	170	U	170	1,700		10
04688	4-Chloro-3-methylphenol	59-50-7	340	U	340	1,700		10
04688	4-Chloroaniline	106-47-8	680	U	680	1,700		10
04688	bis(2-Chloroethoxy)methane	111-91-1	170	U	170	1,700		10
04688	bis(2-Chloroethyl)ether	111-44-4	170	U	170	1,700		10
04688	bis(2-Chloroisopropyl)ether	39638-32-9	170	U	170	1,700		10
04688	2-Chloronaphthalene	91-58-7	170	U	170	1,700		10
04688	2-Chlorophenol	95-57-8	170	U	170	1,700		10
04688	4-Chlorophenyl-phenylether	7005-72-3	340	U	340	1,700		10
04688	Dibenzofuran	132-64-9	170	U	170	1,700		10
04688	1,2-Dichlorobenzene	95-50-1	170	U	170	1,700		10
04688	1,3-Dichlorobenzene	541-73-1	170	U	170	1,700		10
04688	1,4-Dichlorobenzene	106-46-7	170	U	170	1,700		10
04688	3,3'-Dichlorobenzidine	91-94-1	1,000	U	1,000	3,400		10

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-278-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-278-SA6-SS-0.0-0.5

LLI Sample # SW 6343403
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:10

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9911 SDG#: DE199-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	170	U	170	1,700		10
04688	2,4-Dimethylphenol	105-67-9	340	U	340	1,700		10
04688	3,5-Dimethylphenol	108-68-9	340	U	340	1,700		10
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,700	U	1,700	5,100		10
04688	2,4-Dinitrophenol	51-28-5	3,400	U	3,400	10,000		10
04688	2,4-Dinitrotoluene	121-14-2	340	U	340	1,700		10
04688	2,6-Dinitrotoluene	606-20-2	170	U	170	1,700		10
04688	1,2-Diphenylhydrazine	122-66-7	170	U	170	1,700		10
04688	Hexachlorobenzene	118-74-1	170	U	170	1,700		10
04688	Hexachlorobutadiene	87-68-3	680	U	680	1,700		10
04688	Hexachlorocyclopentadiene	77-47-4	1,700	U	1,700	5,100		10
04688	Hexachloroethane	67-72-1	170	U	170	1,700		10
04688	Isophorone	78-59-1	170	U	170	1,700		10
04688	2-Methylphenol	95-48-7	340	U	340	1,700		10
04688	4-Methylphenol	106-44-5	340	U	340	1,700		10
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	170	U	170	1,700		10
04688	3-Nitroaniline	99-09-2	340	U	340	1,700		10
04688	4-Nitroaniline	100-01-6	680	U	680	1,700		10
04688	Nitrobenzene	98-95-3	170	U	170	1,700		10
04688	2-Nitrophenol	88-75-5	170	U	170	1,700		10
04688	4-Nitrophenol	100-02-7	1,700	U	1,700	5,100		10
04688	N-Nitroso-di-n-propylamine	621-64-7	170	U	170	1,700		10
04688	N-Nitrosodiphenylamine	86-30-6	170	U	170	1,700		10
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	1,700	U	1,700	5,100		10
04688	Phenol	108-95-2	170	U	170	1,700		10
04688	Tetralin	119-64-2	1,700	U	1,700	1,700		10
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	170	U	170	1,700		10
04688	2,4,5-Trichlorophenol	95-95-4	340	U	340	1,700		10
04688	2,4,6-Trichlorophenol	88-06-2	340	U	340	1,700		10

Reporting limits were raised due to interference from the sample matrix.

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	17	U	17	43		5
10138	Acenaphthylene	208-96-8	8.5	U	8.5	43		5
10138	Anthracene	120-12-7	8.5	U	8.5	43		5
10138	Benzo(a)anthracene	56-55-3	17	U	17	43		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-278-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-278-SA6-SS-0.0-0.5

LLI Sample # SW 6343403
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:10

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9911 SDG#: DE199-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(a)pyrene	50-32-8	17	U	17	43		5
10138	Benzo(b)fluoranthene	205-99-2	36	J	17	43		5
10138	Benzo(g,h,i)perylene	191-24-2	33	J	17	43		5
10138	Benzo(k)fluoranthene	207-08-9	17	U	17	43		5
10138	Butylbenzylphthalate	85-68-7	150	U	150	460		5
10138	Di-n-butylphthalate	84-74-2	150	U	150	460		5
10138	Chrysene	218-01-9	23	J	8.5	43		5
10138	Dibenz(a,h)anthracene	53-70-3	17	U	17	43		5
10138	Diethylphthalate	84-66-2	150	U	150	460		5
10138	Dimethylphthalate	131-11-3	150	U	150	460		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	180	J	150	460		5
10138	Fluoranthene	206-44-0	17	U	17	43		5
10138	Fluorene	86-73-7	17	U	17	43		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	17	U	17	43		5
10138	1-Methylnaphthalene	90-12-0	17	U	17	43		5
10138	2-Methylnaphthalene	91-57-6	17	U	17	43		5
10138	Naphthalene	91-20-3	17	U	17	43		5
10138	N-Nitrosodimethylamine	62-75-9	17	U	17	43		5
10138	Di-n-octylphthalate	117-84-0	170	J	150	460		5
10138	Phenanthrene	85-01-8	17	U	17	43		5
10138	Pyrene	129-00-0	17	U	17	43		5

Reporting limits were raised due to interference from the sample matrix.

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 6.5 ug/kg
These blank values were not subtracted from the analytical results.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	2.3	U	2.3	12		282.17

Reporting limits were raised due to sample foaming.

Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1

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Sample Description: SL-278-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-278-SA6-SS-0.0-0.5

LLI Sample # SW 6343403
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:10

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9911 SDG#: DE199-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	0.63	U	0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	110	J	78	260		1
10401	MCPP (Mecoprop)	93-65-2	110	J	77	260		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1

The LCS data for dinoseb and 2,4,5-TP is outside the QC limits. Results from the reextraction are within the limits. Dicamba, MCPP, and 2,4,5-T were detected in the method blank. These analytes were not detected in the method blank associated with the reextraction. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that MCPA and MCPP were not detected in the reextract.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	870	J	620	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	J	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.87	U	0.87	4.3		25
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1

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Sample Description: SL-278-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-278-SA6-SS-0.0-0.5

LLI Sample # SW 6343403
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:10

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9911 SDG#: DE199-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Gamma BHC - Lindane	58-89-9	0.051	U	0.051	0.17		1
01363	Chlordane	57-74-9	8.4		0.82	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	0.56	U	0.56	0.56		1
01363	p,p-DDT	50-29-3	6.3		0.34	1.7		5
01363	Delta BHC	319-86-8	0.33	U	0.33	0.33		1
01363	Dieldrin	60-57-1	1.8	U	1.8	1.8		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	1.3	U	1.3	1.3		1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	0.068	U	0.068	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.74	U	0.74	0.74		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.34	U	0.34	0.34		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	1.8	U	1.8	1.8		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	5.1		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	7.3		0.34	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1

The surrogate data in the original extract is outside the QC limits.
Results from the reextraction are also outside the QC limits, indicating possible matrix interference. The rextract data was estimated at 41 ug/kg for aroclor 1254 and 11 ug/kg for aroclor 5460.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1

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Sample Description: SL-278-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-278-SA6-SS-0.0-0.5

LLI Sample # SW 6343403
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:10

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9911 SDG#: DE199-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	100	U	100	310		50
10199	EFH (C15-C20)	n.a.	100	U	100	310		50
10199	EFH (C21-C30)	n.a.	1,300		100	310		50
10199	EFH (C30 - C40)	n.a.	5,100		100	310		50
10199	EFH (C8-C11)	n.a.	100	U	100	310		50
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,500		5.97	19.7		1
07914	Boron	7440-42-8	1.63	J	0.355	4.93		1
01650	Calcium	7440-70-2	4,120		2.47	19.7		1
01654	Iron	7439-89-6	18,000		2.57	19.7		1
01656	Lithium	7439-93-2	21.4		0.61	2.0		1
01657	Magnesium	7439-95-4	5,310		0.434	9.86		1
06958	Manganese	7439-96-5	266		0.0355	0.493		1
10145	Phosphorus	7723-14-0	782		0.345	9.86		1
01662	Potassium	7440-09-7	2,600		11.1	49.3		1
01667	Sodium	7440-23-5	272		5.87	98.6		1
07968	Strontium	7440-24-6	19.1		0.0247	0.493		1
06969	Tin	7440-31-5	2.19	J	0.316	9.86		1
06970	Titanium	7440-32-6	905		0.0700	0.986		1
10146	Zirconium	7440-67-7	1.48	J	0.454	4.93		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.259		0.0737	0.199		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.96		0.0797	0.398		2
06126	Barium	7440-39-3	105		0.106	0.398		2
06127	Beryllium	7440-41-7	0.361		0.0159	0.0996		2
06128	Cadmium	7440-43-9	1.34		0.0438	0.0996		2
06131	Chromium	7440-47-3	344		0.597	1.99		10
06132	Cobalt	7440-48-4	6.41		0.0199	0.0996		2
06133	Copper	7440-50-8	18.5		0.0797	0.398		2
06135	Lead	7439-92-1	15.1		0.0102	0.199		2

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Sample Description: SL-278-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-278-SA6-SS-0.0-0.5

LLI Sample # SW 6343403
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:10

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9911 SDG#: DE199-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06138	Molybdenum	7439-98-7	0.586		0.0498	0.0996		2
06139	Nickel	7440-02-0	19.1		0.0996	0.398		2
06141	Selenium	7782-49-2	0.219	J	0.0578	0.398		2
06142	Silver	7440-22-4	0.127		0.0141	0.0996		2
06145	Thallium	7440-28-0	0.209		0.0299	0.0996		2
06148	Vanadium	7440-62-2	37.7		0.0219	0.0996		2
06149	Zinc	7440-66-6	228		2.79	14.9		10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.317		0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.8		0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	2.8		0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.35		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Sample Description: SL-278-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-278-SA6-SS-0.0-0.5

LLI Sample # SW 6343403
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:10

Submitted: 07/14/2011 09:10
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E9911 SDG#: DE199-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111951AA	07/14/2011 20:14	Chelsea B Eastep	1.03
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111961AA	07/15/2011 14:29	Jason M Long	26.15
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201119524910	07/14/2011 16:25	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201119524910	07/14/2011 16:58	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201119524910	07/14/2011 16:58	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201119524910	07/14/2011 16:23	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11201SLB026	07/21/2011 18:58	Matthew S Woods	100
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11201SLH026	07/30/2011 06:01	Jennifer R Riggs	10
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLL026	07/22/2011 22:33	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11201SLB026	07/20/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLL026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11201SLH026	07/21/2011 06:30	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11195A34B	07/18/2011 11:47	Marie D John	282.17
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119524910	07/14/2011 16:22	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	112070007A	07/28/2011 06:38	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111970007A	07/19/2011 00:31	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112010012A	07/23/2011 08:20	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112010008A	08/12/2011 18:08	Jamie L Brillhart	25
01363	12a Pesticides by 8081A	SW-846 8081A	1	112010008A	08/13/2011 00:19	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112010008A	08/17/2011 02:19	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112020012A	07/23/2011 03:39	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112010008A	07/20/2011 16:00	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112020012A	07/21/2011 18:35	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112010012A	07/20/2011 20:30	Elaine F Stoltzfus	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111970007A	07/17/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112070007A	07/26/2011 15:15	Kelli M Barto	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112000030A	07/20/2011 22:59	Tracy A Cole	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111960003A	07/15/2011 17:31	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112020029A	07/23/2011 09:15	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020030A	07/23/2011 08:40	Heather E Williams	50
11238	EFH Extraction - Soils	SW-846 3550B	1	112020030A	07/22/2011 07:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112020029A	07/22/2011 07:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112000030A	07/19/2011 17:30	Elizabeth J Marin	1

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Sample Description: SL-278-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-278-SA6-SS-0.0-0.5

LLI Sample # SW 6343403
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:10

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9911 SDG#: DE199-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111960003A	07/15/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111995708002	07/25/2011 00:11	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111995708002	07/25/2011 00:11	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111995708002	07/26/2011 01:00	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111995708002	07/25/2011 00:11	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111995708002	07/26/2011 01:00	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111995708002	07/26/2011 01:00	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111995708002	07/25/2011 00:11	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111995708002	07/25/2011 00:11	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111995708002	07/26/2011 01:00	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111995708002	07/26/2011 01:00	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111995708002	07/25/2011 00:11	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111995708002	07/25/2011 00:11	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111995708002	07/25/2011 00:11	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111995708002	07/26/2011 01:00	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111991026001A	07/23/2011 02:03	David K Beck	2
06125	Arsenic	SW-846 6020	1	111991026001A	07/23/2011 02:03	David K Beck	2
06126	Barium	SW-846 6020	1	111991026001D	07/23/2011 02:03	David K Beck	2
06127	Beryllium	SW-846 6020	1	111991026001A	07/23/2011 02:03	David K Beck	2
06128	Cadmium	SW-846 6020	1	111991026001A	07/23/2011 02:03	David K Beck	2
06131	Chromium	SW-846 6020	1	111991026001A	07/25/2011 16:04	Choon Y Tian	10
06132	Cobalt	SW-846 6020	1	111991026001A	07/23/2011 02:03	David K Beck	2
06133	Copper	SW-846 6020	1	111991026001A	07/23/2011 02:03	David K Beck	2
06135	Lead	SW-846 6020	1	111991026001A	07/23/2011 02:03	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111991026001C	07/23/2011 02:03	David K Beck	2
06139	Nickel	SW-846 6020	1	111991026001A	07/23/2011 02:03	David K Beck	2
06141	Selenium	SW-846 6020	1	111991026001B	07/23/2011 02:03	David K Beck	2
06142	Silver	SW-846 6020	1	111991026001A	07/23/2011 02:03	David K Beck	2
06145	Thallium	SW-846 6020	1	111991026001A	07/23/2011 02:03	David K Beck	2
06148	Vanadium	SW-846 6020	1	111991026001A	07/23/2011 02:03	David K Beck	2
06149	Zinc	SW-846 6020	1	111991026001A	07/25/2011 16:04	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	111995711002	07/18/2011 19:01	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708002	07/18/2011 12:05	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026001	07/18/2011 11:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711002	07/18/2011 13:38	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621201B	07/28/2011 01:19	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11207621201B	07/28/2011 01:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621202B	07/29/2011 05:54	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11211243201A	08/01/2011 18:17	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11201102201A	07/21/2011 18:57	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621201B	07/26/2011 07:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621202B	07/19/2011 07:45	William L Hamaker Jr	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-278-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-278-SA6-SS-0.0-0.5

LLI Sample # SW 6343403
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:10

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9911 SDG#: DE199-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05896	Cyanide Solid Distillation	SW-846 9012B	1	11201102201A	07/20/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039403B	07/25/2011 21:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11211243201A	07/30/2011 08:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-279-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-279-SA6-SS-0.0-0.5

LLI Sample # SW 6343404
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 07:38

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9912 SDG#: DE199-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: SL-279-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-279-SA6-SS-0.0-0.5

LLI Sample # SW 6343404
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 07:38

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9912 SDG#: DE199-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	5.4		0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	5.5		0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	12		0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	2.3		0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	4.0		0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	J	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	9.1	J	6.2	19		1
10138	Chrysene	218-01-9	5.6		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.86	J	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	19		6.2	19		1
10138	Fluoranthene	206-44-0	6.1		0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.4		0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	8.0	J	6.2	19		1
10138	Phenanthrene	85-01-8	1.0	J	0.69	1.7		1
10138	Pyrene	129-00-0	4.3		0.69	1.7		1
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate 7.9 ug/kg bis(2-ethylhexyl)phthalate 6.5 ug/kg These blank values were not subtracted from the analytical results.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.3		1
10401	2,4-DB	94-82-6	0.64	U	0.64	1.8		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1

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Sample Description: SL-279-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-279-SA6-SS-0.0-0.5

LLI Sample # SW 6343404
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 07:38

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9912 SDG#: DE199-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.8		1
10401	MCPA	94-74-6	78	U	78	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.40		0.085	0.18		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.18		1

The LCS data for dinoseb and 2,4,5-TP is outside the QC limits. Results from the reextraction are within the limits. Dicamba, MCPP, and 2,4,5-T were detected in the method blank. These analytes were not detected in the method blank associated with the reextraction. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that 2,4,5-T was not detected in the reextract.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.17		1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	0.36	U	0.36	0.36		1
01363	p,p-DDT	50-29-3	2.8		0.34	1.8		5
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.39	U	0.39	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	0.23	U	0.23	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.33	U	0.33	0.35		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.26	U	0.26	0.26		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.19	U	0.19	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.2	U	5.2	17		5
10225	Aroclor 5442	12642-23-8	5.2	U	5.2	17		5
10225	Aroclor 5460	11126-42-4	32		5.2	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.8		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.8		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.8		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.8		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.8		5
10225	PCB-1254	11097-69-1	23		1.7	8.8		5

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Sample Description: SL-279-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-279-SA6-SS-0.0-0.5

LLI Sample # SW 6343404
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 07:38

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9912 SDG#: DE199-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	2.0	U	2.0	8.8		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.8		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.8		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.2		5
10199	EFH (C15-C20)	n.a.	2.1	J	2.1	6.2		5
10199	EFH (C21-C30)	n.a.	23		2.1	6.2		5
10199	EFH (C30 - C40)	n.a.	120		2.1	6.2		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.2		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,600		6.06	20.0		1
07914	Boron	7440-42-8	2.43	J	0.360	5.00		1
01650	Calcium	7440-70-2	4,640		2.50	20.0		1
01654	Iron	7439-89-6	20,300		2.61	20.0		1
01656	Lithium	7439-93-2	19.5		0.62	2.0		1
01657	Magnesium	7439-95-4	5,600		0.440	10.0		1
06958	Manganese	7439-96-5	279		0.0360	0.500		1
10145	Phosphorus	7723-14-0	607		0.350	10.0		1
01662	Potassium	7440-09-7	4,240		11.3	50.0		1
01667	Sodium	7440-23-5	83.5	J	5.96	100		1
07968	Strontium	7440-24-6	18.4		0.0250	0.500		1
06969	Tin	7440-31-5	1.98	J	0.320	10.0		1
06970	Titanium	7440-32-6	985		0.0711	1.00		1
10146	Zirconium	7440-67-7	1.56	J	0.460	5.00		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0967	J	0.0763	0.206		2

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Sample Description: SL-279-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-279-SA6-SS-0.0-0.5

LLI Sample # SW 6343404
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 07:38

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9912 SDG#: DE199-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.33		0.0825	0.412		2
06126	Barium	7440-39-3	67.8		0.109	0.412		2
06127	Beryllium	7440-41-7	0.423		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.218		0.0454	0.103		2
06131	Chromium	7440-47-3	11.9		0.124	0.412		2
06132	Cobalt	7440-48-4	4.90		0.0206	0.103		2
06133	Copper	7440-50-8	6.97		0.0825	0.412		2
06135	Lead	7439-92-1	7.75		0.0105	0.206		2
06138	Molybdenum	7439-98-7	0.527		0.0515	0.103		2
06139	Nickel	7440-02-0	8.11		0.103	0.412		2
06141	Selenium	7782-49-2	0.0854	J	0.0598	0.412		2
06142	Silver	7440-22-4	0.0684	J	0.0146	0.103		2
06145	Thallium	7440-28-0	0.173		0.0309	0.103		2
06148	Vanadium	7440-62-2	27.2		0.0227	0.103		2
06149	Zinc	7440-66-6	69.7		0.577	3.09		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.502		0.0072	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	30.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.64	J	0.21	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.40		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-279-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-279-SA6-SS-0.0-0.5

LLI Sample # SW 6343404
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 07:38

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9912 SDG#: DE199-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11201SLH026	08/01/2011 13:50	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLL026	07/22/2011 23:04	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLL026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11201SLH026	07/21/2011 06:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112010012A	07/23/2011 08:48	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112010008A	08/12/2011 22:09	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112010008A	08/17/2011 02:33	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112020012A	07/23/2011 05:12	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112010008A	07/20/2011 16:00	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112020012A	07/21/2011 18:35	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112010012A	07/20/2011 20:30	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111960030A	07/17/2011 00:22	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111960003A	07/15/2011 17:43	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112020029A	07/23/2011 03:19	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020030A	07/23/2011 06:34	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112020030A	07/22/2011 07:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112020029A	07/22/2011 07:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111960030A	07/16/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111960003A	07/15/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111995708002	07/25/2011 00:15	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111995708002	07/25/2011 00:15	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111995708002	07/26/2011 01:16	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111995708002	07/25/2011 00:15	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111995708002	07/25/2011 00:15	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111995708002	07/26/2011 01:16	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111995708002	07/25/2011 00:15	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111995708002	07/25/2011 00:15	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111995708002	07/26/2011 01:16	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111995708002	07/26/2011 01:16	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111995708002	07/25/2011 00:15	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111995708002	07/25/2011 00:15	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111995708002	07/25/2011 00:15	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111995708002	07/25/2011 00:15	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111991026001A	07/23/2011 02:06	David K Beck	2
06125	Arsenic	SW-846 6020	1	111991026001A	07/23/2011 02:06	David K Beck	2
06126	Barium	SW-846 6020	1	111991026001D	07/23/2011 02:06	David K Beck	2
06127	Beryllium	SW-846 6020	1	111991026001A	07/23/2011 02:06	David K Beck	2

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Sample Description: SL-279-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-279-SA6-SS-0.0-0.5

LLI Sample # SW 6343404
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 07:38

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E9912 SDG#: DE199-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111991026001A	07/23/2011 02:06	David K Beck	2
06131	Chromium	SW-846 6020	1	111991026001A	07/23/2011 02:06	David K Beck	2
06132	Cobalt	SW-846 6020	1	111991026001A	07/23/2011 02:06	David K Beck	2
06133	Copper	SW-846 6020	1	111991026001A	07/23/2011 02:06	David K Beck	2
06135	Lead	SW-846 6020	1	111991026001A	07/23/2011 02:06	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111991026001C	07/23/2011 02:06	David K Beck	2
06139	Nickel	SW-846 6020	1	111991026001A	07/23/2011 02:06	David K Beck	2
06141	Selenium	SW-846 6020	1	111991026001B	07/23/2011 02:06	David K Beck	2
06142	Silver	SW-846 6020	1	111991026001A	07/23/2011 02:06	David K Beck	2
06145	Thallium	SW-846 6020	1	111991026001A	07/23/2011 02:06	David K Beck	2
06148	Vanadium	SW-846 6020	1	111991026001A	07/23/2011 02:06	David K Beck	2
06149	Zinc	SW-846 6020	1	111991026001A	07/23/2011 02:06	David K Beck	2
00159	Mercury	SW-846 7471A	1	111995711002	07/18/2011 19:02	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708002	07/18/2011 12:05	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026001	07/18/2011 11:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711002	07/18/2011 13:38	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621201B	07/28/2011 15:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621202B	07/29/2011 07:26	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11211243201A	08/01/2011 18:31	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621201B	07/26/2011 07:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621202B	07/19/2011 07:45	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039403B	07/25/2011 21:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11211243201A	07/30/2011 08:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11202162401A	07/21/2011 18:53	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-072-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA6-SB-4.0-5.0

LLI Sample # SW 6343405
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 08:25

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9913 SDG#: DE199-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.6		6.8	8.2		0.91
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.91
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.91
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.91
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.91
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.91
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2		0.91
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.91
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.91
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.91
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.91
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.91
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.91
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.91
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.91
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.91
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.91
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.91
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.91
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.91
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.91
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.91
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.91
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.91
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.91
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.91
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.91
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.91
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.91
06192	Methylene Chloride	75-09-2	1.7	J	0.24	4.1		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.91

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Sample Description: SL-072-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA6-SB-4.0-5.0

LLI Sample # SW 6343405
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 08:25

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E9913 SDG#: DE199-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.91
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.91
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.91
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.91
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.91
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.91
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.91
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.91
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		22.94
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1

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Sample Description: SL-072-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA6-SB-4.0-5.0

LLI Sample # SW 6343405
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 08:25

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9913 SDG#: DE199-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Tetralin	119-64-2	190	U	190	190		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1

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Sample Description: SL-072-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA6-SB-4.0-5.0

LLI Sample # SW 6343405
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 08:25

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9913 SDG#: DE199-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	J	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.22
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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SSFL Area IV Collocated Soil Sampling
SL-072-SA6-SB-4.0-5.0

LLI Sample # SW 6343405
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 08:25

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9913 SDG#: DE199-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	1.2	J	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	0.67	J	0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,500		6.55	21.6		1
07914	Boron	7440-42-8	1.05	J	0.390	5.41		1
01650	Calcium	7440-70-2	1,960		2.71	21.6		1
01654	Iron	7439-89-6	22,800		2.82	21.6		1
01656	Lithium	7439-93-2	25.4		0.67	2.2		1
01657	Magnesium	7439-95-4	3,940		0.476	10.8		1
06958	Manganese	7439-96-5	331		0.0390	0.541		1
10145	Phosphorus	7723-14-0	269		0.379	10.8		1
01662	Potassium	7440-09-7	3,010		12.2	54.1		1
01667	Sodium	7440-23-5	127		6.44	108		1
07968	Strontium	7440-24-6	20.5		0.0271	0.541		1
06969	Tin	7440-31-5	2.47	J	0.346	10.8		1
06970	Titanium	7440-32-6	1,120		0.0768	1.08		1
10146	Zirconium	7440-67-7	2.35	J	0.498	5.41		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0809	U	0.0809	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.78		0.0874	0.437		2
06126	Barium	7440-39-3	116		0.116	0.437		2
06127	Beryllium	7440-41-7	0.646		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.0616	J	0.0481	0.109		2
06131	Chromium	7440-47-3	13.0		0.131	0.437		2
06132	Cobalt	7440-48-4	4.77		0.0219	0.109		2
06133	Copper	7440-50-8	4.96		0.0874	0.437		2
06135	Lead	7439-92-1	5.06		0.0111	0.219		2
06138	Molybdenum	7439-98-7	0.585		0.0546	0.109		2
06139	Nickel	7440-02-0	9.60		0.109	0.437		2
06141	Selenium	7782-49-2	0.0634	U	0.0634	0.437		2
06142	Silver	7440-22-4	0.0405	J	0.0155	0.109		2
06145	Thallium	7440-28-0	0.253		0.0328	0.109		2
06148	Vanadium	7440-62-2	29.0		0.0240	0.109		2

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SSFL Area IV Collocated Soil Sampling
SL-072-SA6-SB-4.0-5.0

LLI Sample # SW 6343405
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 08:25

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9913 SDG#: DE199-13

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06149	Zinc		7440-66-6	49.6		0.612	3.28		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0076	U	0.0076	0.108		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	2.7		0.90	1.1		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.0	U	10.0	33.4		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.36	J	0.22	1.1		1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.64		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	10.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-072-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111951AA	07/14/2011 20:36	Chelsea B Eastep	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111961AA	07/15/2011 14:49	Jason M Long	22.94
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201119524910	07/14/2011 16:31	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201119524910	07/14/2011 16:58	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201119524910	07/14/2011 16:58	Lois E Hiltz	n.a.

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Sample Description: SL-072-SA6-SB-4.0-5.0 Soil
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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201119524910	07/14/2011 16:29	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11201SLH026	08/01/2011 14:15	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLL026	07/22/2011 23:36	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLL026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11201SLH026	07/21/2011 06:30	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11195A34B	07/18/2011 12:28	Marie D John	24.22
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119524910	07/14/2011 16:28	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112020012A	07/23/2011 05:30	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112020012A	07/21/2011 18:35	Sally L Appleyard	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111960030A	07/17/2011 00:37	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111960003A	07/15/2011 17:56	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112020029A	07/22/2011 17:39	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020030A	07/22/2011 22:37	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112020030A	07/22/2011 07:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112020029A	07/22/2011 07:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111960030A	07/16/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111960003A	07/15/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111995708002	07/25/2011 00:27	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111995708002	07/25/2011 00:27	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111995708002	07/26/2011 01:21	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111995708002	07/25/2011 00:27	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111995708002	07/25/2011 00:27	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111995708002	07/26/2011 01:21	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111995708002	07/25/2011 00:27	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111995708002	07/25/2011 00:27	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111995708002	07/26/2011 01:21	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111995708002	07/26/2011 01:21	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111995708002	07/25/2011 00:27	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111995708002	07/25/2011 00:27	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111995708002	07/25/2011 00:27	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111995708002	07/25/2011 00:27	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111991026001A	07/23/2011 02:09	David K Beck	2
06125	Arsenic	SW-846 6020	1	111991026001A	07/23/2011 02:09	David K Beck	2
06126	Barium	SW-846 6020	1	111991026001D	07/23/2011 02:09	David K Beck	2
06127	Beryllium	SW-846 6020	1	111991026001A	07/23/2011 02:09	David K Beck	2
06128	Cadmium	SW-846 6020	1	111991026001A	07/23/2011 02:09	David K Beck	2
06131	Chromium	SW-846 6020	1	111991026001A	07/23/2011 02:09	David K Beck	2
06132	Cobalt	SW-846 6020	1	111991026001A	07/23/2011 02:09	David K Beck	2
06133	Copper	SW-846 6020	1	111991026001A	07/23/2011 02:09	David K Beck	2

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Sample Description: SL-072-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA6-SB-4.0-5.0

LLI Sample # SW 6343405
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E9913 SDG#: DE199-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	111991026001A	07/23/2011 02:09	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111991026001C	07/23/2011 02:09	David K Beck	2
06139	Nickel	SW-846 6020	1	111991026001A	07/23/2011 02:09	David K Beck	2
06141	Selenium	SW-846 6020	1	111991026001B	07/23/2011 02:09	David K Beck	2
06142	Silver	SW-846 6020	1	111991026001A	07/23/2011 02:09	David K Beck	2
06145	Thallium	SW-846 6020	1	111991026001A	07/23/2011 02:09	David K Beck	2
06148	Vanadium	SW-846 6020	1	111991026001A	07/23/2011 02:09	David K Beck	2
06149	Zinc	SW-846 6020	1	111991026001A	07/23/2011 02:09	David K Beck	2
00159	Mercury	SW-846 7471A	1	111995711002	07/18/2011 19:03	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708002	07/18/2011 12:05	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026001	07/18/2011 11:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711002	07/18/2011 13:38	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621201B	07/28/2011 15:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621202B	07/29/2011 07:49	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11211243201A	08/01/2011 18:38	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621201B	07/26/2011 07:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621202B	07/19/2011 07:45	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039403B	07/25/2011 21:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11211243201A	07/30/2011 08:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11202162401A	07/21/2011 18:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-072-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA6-SB-9.0-10.0

LLI Sample # SW 6343406
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 08:35

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9914 SDG#: DE199-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-072-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA6-SB-9.0-10.0

LLI Sample # SW 6343406
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 08:35

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9914 SDG#: DE199-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Tetralin	119-64-2	190	U	190	190		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.1	J	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.52
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1

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Sample Description: SL-072-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA6-SB-9.0-10.0

LLI Sample # SW 6343406
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 08:35

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9914 SDG#: DE199-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,600		6.63	21.9		1
07914	Boron	7440-42-8	0.772	J	0.395	5.48		1
01650	Calcium	7440-70-2	2,140		2.74	21.9		1
01654	Iron	7439-89-6	22,300		2.86	21.9		1
01656	Lithium	7439-93-2	25.7		0.68	2.2		1
01657	Magnesium	7439-95-4	4,430		0.482	11.0		1
06958	Manganese	7439-96-5	774		0.0395	0.548		1
10145	Phosphorus	7723-14-0	177		0.384	11.0		1
01662	Potassium	7440-09-7	2,370		12.4	54.8		1
01667	Sodium	7440-23-5	131		6.52	110		1
07968	Strontium	7440-24-6	24.0		0.0274	0.548		1
06969	Tin	7440-31-5	2.69	J	0.351	11.0		1
06970	Titanium	7440-32-6	1,200		0.0778	1.10		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-072-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA6-SB-9.0-10.0

LLI Sample # SW 6343406
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 08:35

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9914 SDG#: DE199-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	2.94 J	0.504	5.48		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0852 U	0.0852	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.40	0.0921	0.460		2
06126	Barium	7440-39-3	71.7	0.122	0.460		2
06127	Beryllium	7440-41-7	0.652	0.0184	0.115		2
06128	Cadmium	7440-43-9	0.0615 J	0.0506	0.115		2
06131	Chromium	7440-47-3	13.7	0.138	0.460		2
06132	Cobalt	7440-48-4	5.52	0.0230	0.115		2
06133	Copper	7440-50-8	4.72	0.0921	0.460		2
06135	Lead	7439-92-1	4.68	0.0117	0.230		2
06138	Molybdenum	7439-98-7	0.763	0.0575	0.115		2
06139	Nickel	7440-02-0	8.66	0.115	0.460		2
06141	Selenium	7782-49-2	0.0748 J	0.0667	0.460		2
06142	Silver	7440-22-4	0.0611 J	0.0163	0.115		2
06145	Thallium	7440-28-0	0.241	0.0345	0.115		2
06148	Vanadium	7440-62-2	29.7	0.0253	0.115		2
06149	Zinc	7440-66-6	42.7	0.644	3.45		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0080 U	0.0080	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.95 J	0.24	1.2		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.67	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-072-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA6-SB-9.0-10.0

LLI Sample # SW 6343406
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 08:35

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9914 SDG#: DE199-14

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-072-SA6-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11201SLH026	08/01/2011 14:40	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLL026	07/23/2011 00:07	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLL026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11201SLH026	07/21/2011 06:30	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11195A34B	07/18/2011 13:05	Marie D John	22.52
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119524910	07/14/2011 16:33	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112020012A	07/23/2011 05:49	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112020012A	07/21/2011 18:35	Sally L Appleyard	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111960030A	07/17/2011 00:51	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111960003A	07/15/2011 18:09	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112020029A	07/22/2011 18:24	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020030A	07/22/2011 23:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112020030A	07/22/2011 07:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112020029A	07/22/2011 07:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111960030A	07/16/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111960003A	07/15/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111995708002	07/25/2011 00:31	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111995708002	07/25/2011 00:31	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111995708002	07/26/2011 01:25	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111995708002	07/25/2011 00:31	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111995708002	07/25/2011 00:31	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111995708002	07/26/2011 01:25	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111995708002	07/25/2011 00:31	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111995708002	07/25/2011 00:31	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111995708002	07/26/2011 01:25	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111995708002	07/26/2011 01:25	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111995708002	07/25/2011 00:31	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111995708002	07/25/2011 00:31	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111995708002	07/25/2011 00:31	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111995708002	07/25/2011 00:31	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111991026001A	07/23/2011 02:18	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-072-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA6-SB-9.0-10.0

LLI Sample # SW 6343406
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 08:35

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9914 SDG#: DE199-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	111991026001A	07/23/2011 02:18	David K Beck	2
06126	Barium	SW-846 6020	1	111991026001D	07/23/2011 02:18	David K Beck	2
06127	Beryllium	SW-846 6020	1	111991026001A	07/23/2011 02:18	David K Beck	2
06128	Cadmium	SW-846 6020	1	111991026001A	07/23/2011 02:18	David K Beck	2
06131	Chromium	SW-846 6020	1	111991026001A	07/23/2011 02:18	David K Beck	2
06132	Cobalt	SW-846 6020	1	111991026001A	07/23/2011 02:18	David K Beck	2
06133	Copper	SW-846 6020	1	111991026001A	07/23/2011 02:18	David K Beck	2
06135	Lead	SW-846 6020	1	111991026001A	07/23/2011 02:18	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111991026001C	07/23/2011 02:18	David K Beck	2
06139	Nickel	SW-846 6020	1	111991026001A	07/23/2011 02:18	David K Beck	2
06141	Selenium	SW-846 6020	1	111991026001B	07/23/2011 02:18	David K Beck	2
06142	Silver	SW-846 6020	1	111991026001A	07/23/2011 02:18	David K Beck	2
06145	Thallium	SW-846 6020	1	111991026001A	07/23/2011 02:18	David K Beck	2
06148	Vanadium	SW-846 6020	1	111991026001A	07/23/2011 02:18	David K Beck	2
06149	Zinc	SW-846 6020	1	111991026001A	07/23/2011 02:18	David K Beck	2
00159	Mercury	SW-846 7471A	1	111995711002	07/18/2011 19:08	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708002	07/18/2011 12:05	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026001	07/18/2011 11:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711002	07/18/2011 13:38	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621201B	07/28/2011 16:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621202B	07/29/2011 08:12	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11211243201A	08/01/2011 19:11	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621201B	07/26/2011 07:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621202B	07/19/2011 07:45	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039403B	07/25/2011 21:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11211243201A	07/30/2011 08:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11202162401A	07/21/2011 18:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-116-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA6-SB-2.5-3.5

LLI Sample # SW 6343407
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:35

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9915 SDG#: DE199-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.0		7.2	8.6		0.99
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.99
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.99
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.99
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.99
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.99
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.99
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6		0.99
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.99
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.99
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.99
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.99
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.99
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.99
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.99
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.99
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.99
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.99
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.99
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.99
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.99
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.99
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.99
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.99
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.99
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.99
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.99
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.99
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.99
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.99
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.99
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.99
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.99
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.99
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.99
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.99
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.99
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.99
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.99
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.99
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.99
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.99
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6		0.99
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.99
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3		0.99
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6		0.99
06192	Methylene Chloride	75-09-2	2.2	J	0.26	4.3		0.99
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.99

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-116-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA6-SB-2.5-3.5

LLI Sample # SW 6343407
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:35

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9915 SDG#: DE199-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.99
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.99
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.99
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.99
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.99
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.99
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.99
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.99
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.99
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.99
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.99
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.99
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.99
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.99
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.99
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		23.02
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-116-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA6-SB-2.5-3.5

LLI Sample # SW 6343407
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:35

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9915 SDG#: DE199-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-116-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA6-SB-2.5-3.5

LLI Sample # SW 6343407
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:35

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9915 SDG#: DE199-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	J	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		24.27
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1

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Sample Description: SL-116-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA6-SB-2.5-3.5

LLI Sample # SW 6343407
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:35

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9915 SDG#: DE199-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.5		5
10199	EFH (C15-C20)	n.a.	2.2	U	2.2	6.5		5
10199	EFH (C21-C30)	n.a.	26		2.2	6.5		5
10199	EFH (C30 - C40)	n.a.	100		2.2	6.5		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.5		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,600		6.26	20.7		1
07914	Boron	7440-42-8	0.422	J	0.372	5.17		1
01650	Calcium	7440-70-2	2,680		2.58	20.7		1
01654	Iron	7439-89-6	23,100		2.70	20.7		1
01656	Lithium	7439-93-2	26.0		0.64	2.1		1
01657	Magnesium	7439-95-4	4,780		0.455	10.3		1
06958	Manganese	7439-96-5	203		0.0372	0.517		1
10145	Phosphorus	7723-14-0	198		0.362	10.3		1
01662	Potassium	7440-09-7	1,740		11.7	51.7		1
01667	Sodium	7440-23-5	124		6.15	103		1
07968	Strontium	7440-24-6	23.0		0.0258	0.517		1
06969	Tin	7440-31-5	2.50	J	0.331	10.3		1
06970	Titanium	7440-32-6	1,050		0.0734	1.03		1
10146	Zirconium	7440-67-7	2.59	J	0.476	5.17		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0773	U	0.0773	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.23		0.0835	0.418		2
06126	Barium	7440-39-3	77.8		0.111	0.418		2
06127	Beryllium	7440-41-7	0.784		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.0625	J	0.0459	0.104		2
06131	Chromium	7440-47-3	19.8		0.125	0.418		2
06132	Cobalt	7440-48-4	4.95		0.0209	0.104		2
06133	Copper	7440-50-8	6.02		0.0835	0.418		2
06135	Lead	7439-92-1	4.89		0.0106	0.209		2
06138	Molybdenum	7439-98-7	0.668		0.0522	0.104		2
06139	Nickel	7440-02-0	10.0		0.104	0.418		2
06141	Selenium	7782-49-2	0.0605	U	0.0605	0.418		2
06142	Silver	7440-22-4	0.0378	J	0.0148	0.104		2
06145	Thallium	7440-28-0	0.258		0.0313	0.104		2
06148	Vanadium	7440-62-2	39.3		0.0230	0.104		2

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Sample Description: SL-116-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA6-SB-2.5-3.5

LLI Sample # SW 6343407
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:35

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9915 SDG#: DE199-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06149	Zinc	7440-66-6	49.9	0.585	3.13		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0107 J	0.0073	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.7	0.85	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7 U	9.7	32.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24 J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.98	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.0	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-116-SA6-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111951AA	07/14/2011 20:58	Chelsea B Eastep	0.99
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111961AA	07/15/2011 15:08	Jason M Long	23.02
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201119524910	07/14/2011 16:38	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201119524910	07/14/2011 16:58	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201119524910	07/14/2011 16:58	Lois E Hiltz	n.a.

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Sample Description: SL-116-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA6-SB-2.5-3.5

LLI Sample # SW 6343407
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:35

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9915 SDG#: DE199-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201119524910	07/14/2011 16:36	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11201SLH026	08/01/2011 15:04	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLL026	07/23/2011 00:39	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLL026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11201SLH026	07/21/2011 06:30	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11195A34B	07/18/2011 13:41	Marie D John	24.27
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119524910	07/14/2011 16:35	Lois E Hiltz	n.a.
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112130022A	08/03/2011 19:39	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112020012A	07/23/2011 06:07	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112020012A	07/21/2011 18:35	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112130022A	08/02/2011 10:45	Maria Davenport	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111960030A	07/17/2011 01:06	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111960003A	07/15/2011 19:00	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112020029A	07/22/2011 19:09	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020030A	07/23/2011 06:59	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112020030A	07/22/2011 07:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112020029A	07/22/2011 07:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111960030A	07/16/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111960003A	07/15/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111995708002	07/25/2011 00:35	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111995708002	07/25/2011 00:35	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111995708002	07/26/2011 01:29	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111995708002	07/25/2011 00:35	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111995708002	07/25/2011 00:35	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111995708002	07/26/2011 01:29	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111995708002	07/25/2011 00:35	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111995708002	07/25/2011 00:35	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111995708002	07/26/2011 01:29	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111995708002	07/26/2011 01:29	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111995708002	07/25/2011 00:35	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111995708002	07/25/2011 00:35	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111995708002	07/25/2011 00:35	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111995708002	07/25/2011 00:35	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111991026001A	07/23/2011 02:21	David K Beck	2
06125	Arsenic	SW-846 6020	1	111991026001A	07/23/2011 02:21	David K Beck	2
06126	Barium	SW-846 6020	1	111991026001D	07/23/2011 02:21	David K Beck	2
06127	Beryllium	SW-846 6020	1	111991026001A	07/23/2011 02:21	David K Beck	2

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Sample Description: SL-116-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA6-SB-2.5-3.5

LLI Sample # SW 6343407
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:35

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9915 SDG#: DE199-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111991026001A	07/23/2011 02:21	David K Beck	2
06131	Chromium	SW-846 6020	1	111991026001A	07/23/2011 02:21	David K Beck	2
06132	Cobalt	SW-846 6020	1	111991026001A	07/23/2011 02:21	David K Beck	2
06133	Copper	SW-846 6020	1	111991026001A	07/23/2011 02:21	David K Beck	2
06135	Lead	SW-846 6020	1	111991026001A	07/23/2011 02:21	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111991026001C	07/23/2011 02:21	David K Beck	2
06139	Nickel	SW-846 6020	1	111991026001A	07/23/2011 02:21	David K Beck	2
06141	Selenium	SW-846 6020	1	111991026001B	07/23/2011 02:21	David K Beck	2
06142	Silver	SW-846 6020	1	111991026001A	07/23/2011 02:21	David K Beck	2
06145	Thallium	SW-846 6020	1	111991026001A	07/23/2011 02:21	David K Beck	2
06148	Vanadium	SW-846 6020	1	111991026001A	07/23/2011 02:21	David K Beck	2
06149	Zinc	SW-846 6020	1	111991026001A	07/23/2011 02:21	David K Beck	2
00159	Mercury	SW-846 7471A	1	111995711002	07/18/2011 19:10	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708002	07/18/2011 12:05	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026001	07/18/2011 11:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711002	07/18/2011 13:38	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621201B	07/28/2011 16:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621202B	07/29/2011 08:35	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11211243201A	08/01/2011 19:24	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621201B	07/26/2011 07:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621202B	07/19/2011 07:45	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039403B	07/25/2011 21:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11211243201A	07/30/2011 08:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11202162401A	07/21/2011 18:53	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-118-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA6-SB-4.0-5.0

LLI Sample # SW 6343408
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:55

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9916 SDG#: DE199-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.9		6.5	7.7		0.87
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.87
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.87
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.87
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.7		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.87
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.9		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.87
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.87
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.87
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.87
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9		0.87
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.9		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.87
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.87
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.87
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.9		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.87
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.87
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.7		0.87
06192	Methylene Chloride	75-09-2	1.4	J	0.23	3.9		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.87

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Sample Description: SL-118-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA6-SB-4.0-5.0

LLI Sample # SW 6343408
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:55

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9916 SDG#: DE199-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.87
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.87
06192	Toluene	108-88-3	0.10	J	0.08	3.9		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.9		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.87
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.87
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.87
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.9		0.87
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9		0.87
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		23.76
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1

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Sample Description: SL-118-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA6-SB-4.0-5.0

LLI Sample # SW 6343408
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:55

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9916 SDG#: DE199-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Tetralin	119-64-2	190	U	190	190		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.4	J	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.8		0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.86	J	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	10	J	6.7	20		1

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Sample Description: SL-118-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA6-SB-4.0-5.0

LLI Sample # SW 6343408
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:55

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9916 SDG#: DE199-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	1.8	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.5	J	6.7	20		1
10138	Fluoranthene	206-44-0	1.3	J	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.6	J	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	1.2	J	0.74	1.9		1
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate 7.9 ug/kg bis(2-ethylhexyl)phthalate 6.5 ug/kg These blank values were not subtracted from the analytical results.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.56
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	6.4		1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	4.2		0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1

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Sample Description: SL-118-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA6-SB-4.0-5.0

LLI Sample # SW 6343408
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:55

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9916 SDG#: DE199-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.58	J	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	6.1		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	14		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,800		6.56	21.7		1
07914	Boron	7440-42-8	4.00	J	0.391	5.42		1
01650	Calcium	7440-70-2	24,800		2.71	21.7		1
01654	Iron	7439-89-6	23,800		2.83	21.7		1
01656	Lithium	7439-93-2	24.0		0.67	2.2		1
01657	Magnesium	7439-95-4	6,050		0.477	10.8		1
06958	Manganese	7439-96-5	276		0.0391	0.542		1
10145	Phosphorus	7723-14-0	467		0.380	10.8		1
01662	Potassium	7440-09-7	3,750		12.3	54.2		1
01667	Sodium	7440-23-5	186		6.45	108		1
07968	Strontium	7440-24-6	51.0		0.0271	0.542		1
06969	Tin	7440-31-5	1.79	J	0.347	10.8		1
06970	Titanium	7440-32-6	1,050		0.0770	1.08		1
10146	Zirconium	7440-67-7	3.68	J	0.499	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0827	U	0.0827	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.99		0.0894	0.447		2
06126	Barium	7440-39-3	96.4		0.118	0.447		2
06127	Beryllium	7440-41-7	0.526		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.228		0.0492	0.112		2
06131	Chromium	7440-47-3	22.6		0.134	0.447		2
06132	Cobalt	7440-48-4	6.55		0.0223	0.112		2
06133	Copper	7440-50-8	10.5		0.0894	0.447		2
06135	Lead	7439-92-1	6.91		0.0114	0.223		2
06138	Molybdenum	7439-98-7	0.360		0.0559	0.112		2

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Sample Description: SL-118-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA6-SB-4.0-5.0

LLI Sample # SW 6343408
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:55

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9916 SDG#: DE199-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	13.2	0.112	0.447		2
06141	Selenium	7782-49-2	0.137 J	0.0648	0.447		2
06142	Silver	7440-22-4	0.0297 J	0.0159	0.112		2
06145	Thallium	7440-28-0	0.254	0.0335	0.112		2
06148	Vanadium	7440-62-2	45.4	0.0246	0.112		2
06149	Zinc	7440-66-6	64.1	0.626	3.35		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0186 J	0.0074	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5	0.91	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36 J	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.16	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-118-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111951AA	07/14/2011 21:20	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111961AA	07/15/2011 15:28	Jason M Long	23.76

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-118-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA6-SB-4.0-5.0

LLI Sample # SW 6343408
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:55

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9916 SDG#: DE199-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201119524910	07/14/2011 16:44	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201119524910	07/14/2011 16:58	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201119524910	07/14/2011 16:58	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201119524910	07/14/2011 16:42	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11201SLH026	08/01/2011 15:29	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLL026	07/23/2011 01:10	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLL026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11201SLH026	07/21/2011 06:30	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11195A34B	07/18/2011 14:17	Marie D John	20.56
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119524910	07/14/2011 16:41	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112020012A	07/23/2011 06:26	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112020012A	07/21/2011 18:35	Sally L Appleyard	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111960030A	07/17/2011 01:21	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111960003A	07/15/2011 19:13	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112020029A	07/22/2011 23:36	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020030A	07/25/2011 21:41	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112020030A	07/22/2011 07:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112020029A	07/22/2011 07:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111960030A	07/16/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111960003A	07/15/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111995708002	07/25/2011 00:40	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111995708002	07/25/2011 00:40	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111995708002	07/26/2011 01:34	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111995708002	07/25/2011 00:40	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111995708002	07/25/2011 00:40	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111995708002	07/26/2011 01:34	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111995708002	07/25/2011 00:40	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111995708002	07/25/2011 00:40	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111995708002	07/26/2011 01:34	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111995708002	07/26/2011 01:34	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111995708002	07/25/2011 00:40	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111995708002	07/25/2011 00:40	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111995708002	07/25/2011 00:40	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111995708002	07/25/2011 00:40	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111991026001A	07/23/2011 02:25	David K Beck	2
06125	Arsenic	SW-846 6020	1	111991026001A	07/23/2011 02:25	David K Beck	2
06126	Barium	SW-846 6020	1	111991026001D	07/23/2011 02:25	David K Beck	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-118-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA6-SB-4.0-5.0

LLI Sample # SW 6343408
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:55

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9916 SDG#: DE199-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111991026001A	07/23/2011 02:25	David K Beck	2
06128	Cadmium	SW-846 6020	1	111991026001A	07/23/2011 02:25	David K Beck	2
06131	Chromium	SW-846 6020	1	111991026001A	07/23/2011 02:25	David K Beck	2
06132	Cobalt	SW-846 6020	1	111991026001A	07/23/2011 02:25	David K Beck	2
06133	Copper	SW-846 6020	1	111991026001A	07/23/2011 02:25	David K Beck	2
06135	Lead	SW-846 6020	1	111991026001A	07/23/2011 02:25	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111991026001C	07/23/2011 02:25	David K Beck	2
06139	Nickel	SW-846 6020	1	111991026001A	07/23/2011 02:25	David K Beck	2
06141	Selenium	SW-846 6020	1	111991026001B	07/23/2011 02:25	David K Beck	2
06142	Silver	SW-846 6020	1	111991026001A	07/23/2011 02:25	David K Beck	2
06145	Thallium	SW-846 6020	1	111991026001A	07/23/2011 02:25	David K Beck	2
06148	Vanadium	SW-846 6020	1	111991026001A	07/23/2011 02:25	David K Beck	2
06149	Zinc	SW-846 6020	1	111991026001A	07/23/2011 02:25	David K Beck	2
00159	Mercury	SW-846 7471A	1	111995711002	07/18/2011 19:13	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708002	07/18/2011 12:05	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026001	07/18/2011 11:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711002	07/18/2011 13:38	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621201B	07/28/2011 16:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621202B	07/29/2011 08:58	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11211243201A	08/01/2011 19:38	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621201B	07/26/2011 07:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621202B	07/19/2011 07:45	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039403B	07/25/2011 21:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11211243201A	07/30/2011 08:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11202162401A	07/21/2011 18:53	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-118-SA6-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA6-SB-10.5-11.5

LLI Sample # SW 6343409
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:45

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9917 SDG#: DE199-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	350		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

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Sample Description: SL-118-SA6-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA6-SB-10.5-11.5

LLI Sample # SW 6343409
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:45

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9917 SDG#: DE199-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	8.3	J	6.3	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.95
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-118-SA6-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA6-SB-10.5-11.5

LLI Sample # SW 6343409
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:45

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9917 SDG#: DE199-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	2.7		0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	3.5		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	8,420		6.34	21.0		1
07914	Boron	7440-42-8	0.377	U	0.377	5.24		1
01650	Calcium	7440-70-2	4,280		2.62	21.0		1
01654	Iron	7439-89-6	13,700		2.73	21.0		1
01656	Lithium	7439-93-2	8.9		0.65	2.1		1
01657	Magnesium	7439-95-4	3,220		0.461	10.5		1
06958	Manganese	7439-96-5	186		0.0377	0.524		1
10145	Phosphorus	7723-14-0	569		0.367	10.5		1
01662	Potassium	7440-09-7	2,100		11.8	52.4		1
01667	Sodium	7440-23-5	243		6.23	105		1
07968	Strontium	7440-24-6	30.0		0.0262	0.524		1
06969	Tin	7440-31-5	1.86	J	0.335	10.5		1
06970	Titanium	7440-32-6	857		0.0744	1.05		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-118-SA6-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA6-SB-10.5-11.5

LLI Sample # SW 6343409
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:45

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9917 SDG#: DE199-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	1.21	J	0.482	5.24		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0753	U	0.0753	0.204		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	2.14		0.0814	0.407		2
06126	Barium	7440-39-3	102		0.108	0.407		2
06127	Beryllium	7440-41-7	0.232		0.0163	0.102		2
06128	Cadmium	7440-43-9	0.0448	U	0.0448	0.102		2
06131	Chromium	7440-47-3	7.84		0.122	0.407		2
06132	Cobalt	7440-48-4	6.49		0.0204	0.102		2
06133	Copper	7440-50-8	13.7		0.0814	0.407		2
06135	Lead	7439-92-1	2.78		0.0104	0.204		2
06138	Molybdenum	7439-98-7	0.213		0.0509	0.102		2
06139	Nickel	7440-02-0	6.65		0.102	0.407		2
06141	Selenium	7782-49-2	0.0590	U	0.0590	0.407		2
06142	Silver	7440-22-4	0.0180	J	0.0144	0.102		2
06145	Thallium	7440-28-0	0.111		0.0305	0.102		2
06148	Vanadium	7440-62-2	30.8		0.0224	0.102		2
06149	Zinc	7440-66-6	31.0		0.570	3.05		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0593	J	0.0073	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.84	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.64		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-118-SA6-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA6-SB-10.5-11.5

LLI Sample # SW 6343409
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:45

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9917 SDG#: DE199-17

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-118-SA6-SB-11.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11201SLH026	08/01/2011 15:54	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLL026	07/23/2011 01:41	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLL026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11201SLH026	07/21/2011 06:30	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11195A34B	07/18/2011 14:54	Marie D John	24.95
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119524910	07/14/2011 16:46	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112020012A	07/23/2011 06:45	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112020012A	07/21/2011 18:35	Sally L Appleyard	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111960030A	07/17/2011 01:36	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111960003A	07/15/2011 19:26	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112020029A	07/22/2011 20:38	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020030A	07/22/2011 23:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112020030A	07/22/2011 07:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112020029A	07/22/2011 07:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111960030A	07/16/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111960003A	07/15/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111995708002	07/25/2011 00:44	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111995708002	07/25/2011 00:44	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111995708002	07/26/2011 01:38	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111995708002	07/25/2011 00:44	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111995708002	07/25/2011 00:44	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111995708002	07/26/2011 01:38	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111995708002	07/25/2011 00:44	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111995708002	07/25/2011 00:44	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111995708002	07/26/2011 01:38	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111995708002	07/26/2011 01:38	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111995708002	07/25/2011 00:44	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111995708002	07/25/2011 00:44	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111995708002	07/25/2011 00:44	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111995708002	07/25/2011 00:44	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111991026001A	07/23/2011 02:28	David K Beck	2

*=This limit was used in the evaluation of the final result
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Sample Description: SL-118-SA6-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA6-SB-10.5-11.5

LLI Sample # SW 6343409
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:45

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9917 SDG#: DE199-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	111991026001A	07/23/2011 02:28	David K Beck	2
06126	Barium	SW-846 6020	1	111991026001D	07/23/2011 02:28	David K Beck	2
06127	Beryllium	SW-846 6020	1	111991026001A	07/23/2011 02:28	David K Beck	2
06128	Cadmium	SW-846 6020	1	111991026001A	07/23/2011 02:28	David K Beck	2
06131	Chromium	SW-846 6020	1	111991026001A	07/23/2011 02:28	David K Beck	2
06132	Cobalt	SW-846 6020	1	111991026001A	07/23/2011 02:28	David K Beck	2
06133	Copper	SW-846 6020	1	111991026001A	07/23/2011 02:28	David K Beck	2
06135	Lead	SW-846 6020	1	111991026001A	07/23/2011 02:28	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111991026001C	07/23/2011 02:28	David K Beck	2
06139	Nickel	SW-846 6020	1	111991026001A	07/23/2011 02:28	David K Beck	2
06141	Selenium	SW-846 6020	1	111991026001B	07/23/2011 02:28	David K Beck	2
06142	Silver	SW-846 6020	1	111991026001A	07/23/2011 02:28	David K Beck	2
06145	Thallium	SW-846 6020	1	111991026001A	07/23/2011 02:28	David K Beck	2
06148	Vanadium	SW-846 6020	1	111991026001A	07/23/2011 02:28	David K Beck	2
06149	Zinc	SW-846 6020	1	111991026001A	07/23/2011 02:28	David K Beck	2
00159	Mercury	SW-846 7471A	1	111995711002	07/18/2011 19:14	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708002	07/18/2011 12:05	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026001	07/18/2011 11:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711002	07/18/2011 13:38	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621201B	07/28/2011 16:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621202B	07/29/2011 09:21	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11211243201A	08/01/2011 19:45	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621201B	07/26/2011 07:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621202B	07/19/2011 07:45	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039403B	07/25/2011 21:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11211243201A	07/30/2011 08:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11202162401A	07/21/2011 18:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-083-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA6-SB-4.0-5.0

LLI Sample # SW 6343410
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:05

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9918 SDG#: DE199-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	24		6.9	8.3		0.97
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.97
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.97
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.97
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.97
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.97
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.97
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.97
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.97
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.97
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1		0.97
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.1		0.97
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.97
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.97
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.97
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.97
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.1		0.97
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.1		0.97
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.97
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.97
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.97
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.97
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.97
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.97
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1		0.97
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.97
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.97
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.97
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.97
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.97
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.97
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.97
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.97
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.97
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.97
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.97
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.1		0.97
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.97
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.97
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.97
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.97
06192	Methylene Chloride	75-09-2	1.3	J	0.25	4.1		0.97
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.97

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-083-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA6-SB-4.0-5.0

LLI Sample # SW 6343410
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:05

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9918 SDG#: DE199-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.97
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.97
06192	Toluene	108-88-3	0.11	J	0.08	4.1		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.1		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.97
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.97
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.97
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.97
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.97
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.97
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.97
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.97
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.97

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride

A surrogate standard percent recovery was outside of QC windows in the inital analysis. The sample was re-analyzed outside of the client specified 7 day holding time but within the method specified 14 day holding time. All surrogate recoveries were within specification in the re-analysis. Analyte concentrations from both analyses yielded similar results. The results reported here are from the initial analysis.

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	17		25.88
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Anthracene	120-12-7	22	J	18	180		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzo(a)anthracene	56-55-3	150	J	18	180		1
04688	Benzo(a)pyrene	50-32-8	160	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	180	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	100	J	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	89	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-083-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA6-SB-4.0-5.0

LLI Sample # SW 6343410
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:05

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9918 SDG#: DE199-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Chrysene	218-01-9	170	J	18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	34	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Fluoranthene	206-44-0	220		18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	77	J	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	24	J	18	180		1
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenanthrene	85-01-8	99	J	18	180		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	180		18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-083-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA6-SB-4.0-5.0

LLI Sample # SW 6343410
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:05

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9918 SDG#: DE199-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.							
	Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	8.9		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.9		5
10138	Butylbenzylphthalate	85-68-7	51	J	32	96		5
10138	Di-n-butylphthalate	84-74-2	36	J	32	96		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	80	J	32	96		5
10138	Fluorene	86-73-7	3.6	U	3.6	8.9		5
10138	1-Methylnaphthalene	90-12-0	12		3.6	8.9		5
10138	2-Methylnaphthalene	91-57-6	17		3.6	8.9		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	8.9		5
10138	Di-n-octylphthalate	117-84-0	51	J	32	96		5
	Reporting limits were raised due to interference from the sample matrix.							
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate 7.9 ug/kg bis(2-ethylhexyl)phthalate 6.5 ug/kg These blank values were not subtracted from the analytical results.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	2.8	U	2.8	14		330.69
	Reporting limits were raised due to sample foaming.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.3	U	5.3	18		5
10225	Aroclor 5442	12642-23-8	5.3	U	5.3	18		5
10225	Aroclor 5460	11126-42-4	71		5.3	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.1		5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.1		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.1		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.1		5

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Sample Description: SL-083-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA6-SB-4.0-5.0

LLI Sample # SW 6343410
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:05

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9918 SDG#: DE199-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.1		5
10225	PCB-1254	11097-69-1	68		1.8	9.1		5
10225	PCB-1260	11096-82-5	2.1	U	2.1	9.1		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.1		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.1		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	11	U	11	32		25
10199	EFH (C15-C20)	n.a.	61		11	32		25
10199	EFH (C21-C30)	n.a.	440		11	32		25
10199	EFH (C30 - C40)	n.a.	1,000		11	32		25
10199	EFH (C8-C11)	n.a.	11	U	11	32		25
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,000		6.46	21.3		1
07914	Boron	7440-42-8	0.384	U	0.384	5.34		1
01650	Calcium	7440-70-2	12,900		2.67	21.3		1
01654	Iron	7439-89-6	28,100		2.79	21.3		1
01656	Lithium	7439-93-2	18.8		0.66	2.1		1
01657	Magnesium	7439-95-4	4,700		0.470	10.7		1
06958	Manganese	7439-96-5	278		0.0384	0.534		1
10145	Phosphorus	7723-14-0	383		0.374	10.7		1
01662	Potassium	7440-09-7	2,760		12.1	53.4		1
01667	Sodium	7440-23-5	357		6.35	107		1
07968	Strontium	7440-24-6	37.3		0.0267	0.534		1
06969	Tin	7440-31-5	2.20	J	0.342	10.7		1
06970	Titanium	7440-32-6	999		0.0758	1.07		1
10146	Zirconium	7440-67-7	3.01	J	0.491	5.34		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-083-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA6-SB-4.0-5.0

LLI Sample # SW 6343410
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:05

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9918 SDG#: DE199-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0996	J	0.0790	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.80		0.0854	0.427		2
06126	Barium	7440-39-3	92.2		0.113	0.427		2
06127	Beryllium	7440-41-7	0.385		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.334		0.0470	0.107		2
06131	Chromium	7440-47-3	15.1		0.128	0.427		2
06132	Cobalt	7440-48-4	8.42		0.0213	0.107		2
06133	Copper	7440-50-8	13.8		0.0854	0.427		2
06135	Lead	7439-92-1	9.92		0.0109	0.213		2
06138	Molybdenum	7439-98-7	0.787		0.0534	0.107		2
06139	Nickel	7440-02-0	12.6		0.107	0.427		2
06141	Selenium	7782-49-2	0.0912	J	0.0619	0.427		2
06142	Silver	7440-22-4	0.0360	J	0.0152	0.107		2
06145	Thallium	7440-28-0	0.162		0.0320	0.107		2
06148	Vanadium	7440-62-2	41.2		0.0235	0.107		2
06149	Zinc	7440-66-6	120		0.598	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	4.23		0.0700	0.996		10
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.34	J	0.21	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	10.7		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-083-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA6-SB-4.0-5.0

LLI Sample # SW 6343410
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:05

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9918 SDG#: DE199-18

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-083-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111951AA	07/14/2011 21:43	Chelsea B Eastep	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111961AA	07/15/2011 15:48	Jason M Long	25.88
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201119524910	07/14/2011 16:51	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201119524910	07/14/2011 16:58	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201119524910	07/14/2011 16:58	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201119524910	07/14/2011 16:48	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11201SLH026	08/01/2011 16:19	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLL026	07/23/2011 02:12	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLL026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11201SLH026	07/21/2011 06:30	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11195A34B	07/18/2011 15:41	Marie D John	330.69
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119524910	07/14/2011 16:48	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112020012A	07/23/2011 07:03	Sarah M Snyder	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112020012A	07/21/2011 18:35	Sally L Appleyard	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111960030A	07/17/2011 01:51	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111960003A	07/15/2011 19:38	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112020029A	07/23/2011 06:17	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020030A	07/23/2011 07:50	Heather E Williams	25
11238	EFH Extraction - Soils	SW-846 3550B	1	112020030A	07/22/2011 07:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112020029A	07/22/2011 07:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111960030A	07/16/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111960003A	07/15/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111995708002	07/25/2011 00:48	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111995708002	07/25/2011 00:48	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111995708002	07/26/2011 01:42	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111995708002	07/25/2011 00:48	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111995708002	07/25/2011 00:48	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-083-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA6-SB-4.0-5.0

LLI Sample # SW 6343410
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:05

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9918 SDG#: DE199-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	111995708002	07/26/2011 01:42	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111995708002	07/25/2011 00:48	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111995708002	07/25/2011 00:48	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111995708002	07/26/2011 01:42	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111995708002	07/26/2011 01:42	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111995708002	07/25/2011 00:48	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111995708002	07/25/2011 00:48	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111995708002	07/25/2011 00:48	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111995708002	07/25/2011 00:48	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111991026001A	07/23/2011 02:31	David K Beck	2
06125	Arsenic	SW-846 6020	1	111991026001A	07/23/2011 02:31	David K Beck	2
06126	Barium	SW-846 6020	1	111991026001D	07/23/2011 02:31	David K Beck	2
06127	Beryllium	SW-846 6020	1	111991026001A	07/23/2011 02:31	David K Beck	2
06128	Cadmium	SW-846 6020	1	111991026001A	07/23/2011 02:31	David K Beck	2
06131	Chromium	SW-846 6020	1	111991026001A	07/23/2011 02:31	David K Beck	2
06132	Cobalt	SW-846 6020	1	111991026001A	07/23/2011 02:31	David K Beck	2
06133	Copper	SW-846 6020	1	111991026001A	07/23/2011 02:31	David K Beck	2
06135	Lead	SW-846 6020	1	111991026001A	07/23/2011 02:31	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111991026001C	07/23/2011 02:31	David K Beck	2
06139	Nickel	SW-846 6020	1	111991026001A	07/23/2011 02:31	David K Beck	2
06141	Selenium	SW-846 6020	1	111991026001B	07/23/2011 02:31	David K Beck	2
06142	Silver	SW-846 6020	1	111991026001A	07/23/2011 02:31	David K Beck	2
06145	Thallium	SW-846 6020	1	111991026001A	07/23/2011 02:31	David K Beck	2
06148	Vanadium	SW-846 6020	1	111991026001A	07/23/2011 02:31	David K Beck	2
06149	Zinc	SW-846 6020	1	111991026001A	07/23/2011 02:31	David K Beck	2
00159	Mercury	SW-846 7471A	1	111995711002	07/18/2011 19:23	Nelli S Markaryan	10
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708002	07/18/2011 12:05	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026001	07/18/2011 11:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711002	07/18/2011 13:38	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621201B	07/28/2011 17:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621202B	07/29/2011 09:44	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11211243201A	08/01/2011 20:05	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621201B	07/26/2011 07:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621202B	07/19/2011 07:45	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039403B	07/25/2011 21:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11211243201A	07/30/2011 08:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11202162401A	07/21/2011 18:53	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-083-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA6-SB-9.0-10.0

LLI Sample # SW 6343411
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:15

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9919 SDG#: DE199-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	31	J	18	180		1
04688	Benzo(a)pyrene	50-32-8	44	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	48	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	36	J	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	26	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Chrysene	218-01-9	43	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Fluoranthene	206-44-0	47	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	33	J	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1

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Sample Description: SL-083-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA6-SB-9.0-10.0

LLI Sample # SW 6343411
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:15

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9919 SDG#: DE199-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	60	J	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.1		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.1		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.1		5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	9.1		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	48	J	33	98		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.1		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.1		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.1		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.1		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.1		5
10138	Di-n-octylphthalate	117-84-0	37	J	33	98		5
10138	Phenanthrene	85-01-8	5.9	J	3.6	9.1		5

Reporting limits were raised due to interference from the sample matrix.

The following compounds were detected in the method blank at the respective

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-083-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA6-SB-9.0-10.0

LLI Sample # SW 6343411
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:15

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9919 SDG#: DE199-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	concentrations of: bis(2-ethylhexyl)phthalate 6.5 ug/kg These blank values were not subtracted from the analytical results.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12 Reporting limits were raised due to sample foaming.	n.a.	2.1	U	2.1	11		242.25
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	11	U	11	36		10
10225	Aroclor 5442	12642-23-8	11	U	11	36		10
10225	Aroclor 5460	11126-42-4	190		11	36		10
10225	PCB-1016	12674-11-2	3.6	U	3.6	19		10
10225	PCB-1221	11104-28-2	3.6	U	3.6	19		10
10225	PCB-1232	11141-16-5	3.6	U	3.6	19		10
10225	PCB-1242	53469-21-9	3.6	U	3.6	19		10
10225	PCB-1248	12672-29-6	3.6	U	3.6	19		10
10225	PCB-1254	11097-69-1	250		3.6	19		10
10225	PCB-1260	11096-82-5	4.3	U	4.3	19		10
10225	PCB-1262	37324-23-5	3.6	U	3.6	19		10
10225	PCB-1268	11100-14-4	3.6	U	3.6	19		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.4	U	4.4	13		10
10199	EFH (C15-C20)	n.a.	17		4.4	13		10
10199	EFH (C21-C30)	n.a.	140		4.4	13		10
10199	EFH (C30 - C40)	n.a.	370		4.4	13		10
10199	EFH (C8-C11)	n.a.	4.4	U	4.4	13		10

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-083-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA6-SB-9.0-10.0

LLI Sample # SW 6343411
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:15

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9919 SDG#: DE199-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,300		6.62	21.9		1
07914	Boron	7440-42-8	0.394	U	0.394	5.47		1
01650	Calcium	7440-70-2	16,800		2.74	21.9		1
01654	Iron	7439-89-6	33,100		5.71	43.8		2
01656	Lithium	7439-93-2	20.0		0.68	2.2		1
01657	Magnesium	7439-95-4	4,880		0.481	10.9		1
06958	Manganese	7439-96-5	282		0.0394	0.547		1
10145	Phosphorus	7723-14-0	365		0.383	10.9		1
01662	Potassium	7440-09-7	2,540		12.4	54.7		1
01667	Sodium	7440-23-5	322		6.51	109		1
07968	Strontium	7440-24-6	41.3		0.0274	0.547		1
06969	Tin	7440-31-5	2.52	J	0.350	10.9		1
06970	Titanium	7440-32-6	968		0.0777	1.09		1
10146	Zirconium	7440-67-7	3.83	J	0.503	5.47		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0974	J	0.0810	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	27.0		0.0875	0.438		2
06126	Barium	7440-39-3	80.4		0.116	0.438		2
06127	Beryllium	7440-41-7	0.426		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.186		0.0481	0.109		2
06131	Chromium	7440-47-3	16.1		0.131	0.438		2
06132	Cobalt	7440-48-4	8.66		0.0219	0.109		2
06133	Copper	7440-50-8	16.1		0.0875	0.438		2
06135	Lead	7439-92-1	15.3		0.0112	0.219		2
06138	Molybdenum	7439-98-7	0.876		0.0547	0.109		2
06139	Nickel	7440-02-0	10.1		0.109	0.438		2
06141	Selenium	7782-49-2	0.0891	J	0.0635	0.438		2
06142	Silver	7440-22-4	0.0416	J	0.0155	0.109		2
06145	Thallium	7440-28-0	0.188		0.0328	0.109		2
06148	Vanadium	7440-62-2	36.6		0.0241	0.109		2
06149	Zinc	7440-66-6	63.8		0.613	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	2.03		0.0367	0.522		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.87	U	0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.55	J	0.22	1.1		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-083-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA6-SB-9.0-10.0

LLI Sample # SW 6343411
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:15

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9919 SDG#: DE199-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	10.8	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	8.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-083-SA6-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11201SLH026	08/01/2011	16:44	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLL026	07/23/2011	02:44	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLL026	07/21/2011	06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11201SLH026	07/21/2011	06:30	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11195A34B	07/18/2011	16:22	Marie D John	242.25
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119524910	07/14/2011	16:52	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112020012A	07/23/2011	07:22	Sarah M Snyder	10
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112020012A	07/21/2011	18:35	Sally L Appleyard	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111960030A	07/17/2011	02:05	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111960003A	07/15/2011	19:51	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112020029A	07/23/2011	07:46	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020030A	07/23/2011	07:25	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112020030A	07/22/2011	07:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112020029A	07/22/2011	07:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111960030A	07/16/2011	17:00	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-083-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA6-SB-9.0-10.0

LLI Sample # SW 6343411
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:15

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9919 SDG#: DE199-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111960003A	07/15/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111995708002	07/25/2011 00:52	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111995708002	07/25/2011 00:52	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111995708002	07/26/2011 01:47	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111995708002	07/26/2011 01:51	John W Yanzuk II	2
01656	Lithium	SW-846 6010B	1	111995708002	07/25/2011 00:52	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111995708002	07/26/2011 01:47	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111995708002	07/25/2011 00:52	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111995708002	07/25/2011 00:52	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111995708002	07/26/2011 01:47	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111995708002	07/26/2011 01:47	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111995708002	07/25/2011 00:52	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111995708002	07/25/2011 00:52	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111995708002	07/25/2011 00:52	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111995708002	07/25/2011 00:52	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111991026001A	07/23/2011 02:34	David K Beck	2
06125	Arsenic	SW-846 6020	1	111991026001A	07/23/2011 02:34	David K Beck	2
06126	Barium	SW-846 6020	1	111991026001D	07/23/2011 02:34	David K Beck	2
06127	Beryllium	SW-846 6020	1	111991026001A	07/23/2011 02:34	David K Beck	2
06128	Cadmium	SW-846 6020	1	111991026001A	07/23/2011 02:34	David K Beck	2
06131	Chromium	SW-846 6020	1	111991026001A	07/23/2011 02:34	David K Beck	2
06132	Cobalt	SW-846 6020	1	111991026001A	07/23/2011 02:34	David K Beck	2
06133	Copper	SW-846 6020	1	111991026001A	07/23/2011 02:34	David K Beck	2
06135	Lead	SW-846 6020	1	111991026001A	07/23/2011 02:34	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111991026001C	07/23/2011 02:34	David K Beck	2
06139	Nickel	SW-846 6020	1	111991026001A	07/23/2011 02:34	David K Beck	2
06141	Selenium	SW-846 6020	1	111991026001B	07/23/2011 02:34	David K Beck	2
06142	Silver	SW-846 6020	1	111991026001A	07/23/2011 02:34	David K Beck	2
06145	Thallium	SW-846 6020	1	111991026001A	07/23/2011 02:34	David K Beck	2
06148	Vanadium	SW-846 6020	1	111991026001A	07/23/2011 02:34	David K Beck	2
06149	Zinc	SW-846 6020	1	111991026001A	07/23/2011 02:34	David K Beck	2
00159	Mercury	SW-846 7471A	1	111995711002	07/18/2011 19:24	Nelli S Markaryan	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708002	07/18/2011 12:05	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026001	07/18/2011 11:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711002	07/18/2011 13:38	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621201B	07/28/2011 17:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621202B	07/29/2011 10:07	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11211243201A	08/01/2011 20:11	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621201B	07/26/2011 07:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621202B	07/19/2011 07:45	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039403B	07/25/2011 21:10	Luz M Groff	1

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Analysis Report

Sample Description: SL-083-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA6-SB-9.0-10.0

LLI Sample # SW 6343411
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:15

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9919 SDG#: DE199-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11211243201A	07/30/2011 08:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11202162401A	07/21/2011 18:53	Scott W Freisher	1

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Analysis Report

Sample Description: TB-071311 Water
SSFL Area IV Collocated Soil Sampling
TB-071311

LLI Sample # WW 6343412
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 08:00

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9920 SDG#: DE199-20TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-071311 Water
SSFL Area IV Collocated Soil Sampling
TB-071311

LLI Sample # WW 6343412
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 08:00

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9920 SDG#: DE199-20TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111961AA	07/15/2011	13:04	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111951AA	07/14/2011	12:46	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111951AA	07/14/2011	12:46	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y111961AA	07/15/2011	13:04	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11195C20A	07/15/2011	17:44	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	11195C20A	07/15/2011	17:44	Catherine J Schwarz	1

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Analysis Report

Sample Description: EB-SA6-SB-071311 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-071311

LLI Sample # WW 6343413
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 12:30

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9921 SDG#: DE199-21EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Sample Description: **EB-SA6-SB-071311 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-071311

LLI Sample # WW 6343413
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 12:30

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9921 SDG#: DE199-21EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	3	J	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	5.16		0.531	1.06		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	59		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1

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Sample Description: EB-SA6-SB-071311 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-071311

LLI Sample # WW 6343413
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 12:30

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9921 SDG#: DE199-21EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	29		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	29		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	Tetralin	119-64-2	5	U	5	5		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.051		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.051		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.051		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.051		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.051		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.051		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.051		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.051		1
10137	Butylbenzylphthalate	85-68-7	0.051	U	0.051	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.28	J	0.051	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.051		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.051		1

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Sample Description: EB-SA6-SB-071311 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-071311

LLI Sample # WW 6343413
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 12:30

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9921 SDG#: DE199-21EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Diethylphthalate	84-66-2	0.051	U	0.051	1.0		1
10137	Dimethylphthalate	131-11-3	0.051	U	0.051	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.21	J	0.051	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.051		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.051		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.051		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.051		1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.051		1
10137	Naphthalene	91-20-3	0.068		0.031	0.051		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.051		1
10137	Di-n-octylphthalate	117-84-0	0.051	U	0.051	1.0		1
10137	Phenanthrene	85-01-8	0.031	U	0.031	0.051		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.051		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate .22 ug/l
bis(2-ethylhexyl)phthalate .21 ug/l
These blank values were not subtracted from the analytical results. This sample was re-extracted outside of the method required holding time, and di-n-butylphthalate was again detected in the method blank and sample. Bis(2-ethylhexyl)phthalate was again detected in the sample. The data reported here is from the initial extraction of the sample.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		ug/l		ug/l	ug/l	ug/l	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1

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Sample Description: EB-SA6-SB-071311 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-071311

LLI Sample # WW 6343413
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 12:30

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9921 SDG#: DE199-21EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.95		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	25b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.098	U	0.098	0.49		1
10227	Aroclor 5442	12642-23-8	0.098	U	0.098	0.49		1
10227	Aroclor 5460	11126-42-4	0.098	U	0.098	0.49		1
10227	PCB-1016	12674-11-2	0.098	U	0.098	0.49		1
10227	PCB-1221	11104-28-2	0.098	U	0.098	0.49		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.49		1
10227	PCB-1242	53469-21-9	0.098	U	0.098	0.49		1
10227	PCB-1248	12672-29-6	0.098	U	0.098	0.49		1
10227	PCB-1254	11097-69-1	0.098	U	0.098	0.49		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.49		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.49		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.49		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1

The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.

GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	20	U	20	200		1
08278	Ethylene glycol	107-21-1	20	U	20	200		1

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Sample Description: EB-SA6-SB-071311 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-071311

LLI Sample # WW 6343413
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 12:30

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9921 SDG#: DE199-21EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Propylene glycol	57-55-6	20	U	20	200		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.082	U	0.082	0.26		1
10319	o-Terphenyl	84-15-1	0.082	U	0.082	0.26		1
10319	p-Terphenyl	92-94-4	0.082	U	0.082	0.26		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.60		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0801	U	0.0801	0.200		1
08014	Boron	7440-42-8	0.0074	J	0.0022	0.0500		1
01750	Calcium	7440-70-2	0.0740	J	0.0705	0.200		1
01754	Iron	7439-89-6	0.0141	U	0.0141	0.200		1
01756	Lithium	7439-93-2	0.0076	U	0.0076	0.0200		1
01757	Magnesium	7439-95-4	0.0067	U	0.0067	0.100		1
07058	Manganese	7439-96-5	0.00044	U	0.00044	0.0050		1
10143	Phosphorus	7723-14-0	0.0047	U	0.0047	0.100		1
01762	Potassium	7440-09-7	0.0874	U	0.0874	0.500		1
01767	Sodium	7440-23-5	0.0647	U	0.0647	1.00		1
08068	Strontium	7440-24-6	0.00047	J	0.00022	0.0050		1
07069	Tin	7440-31-5	0.0043	U	0.0043	0.0200		1
07070	Titanium	7440-32-6	0.00046	U	0.00046	0.0100		1
10144	Zirconium	7440-67-7	0.0042	U	0.0042	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00042	U	0.00042	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00069	U	0.00069	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000080	U	0.000080	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00027	U	0.00027	0.0020		1
06042	Silver	7440-22-4	0.000098	U	0.000098	0.00050		1

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Sample Description: EB-SA6-SB-071311 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-071311

LLI Sample # WW 6343413
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 12:30

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9921 SDG#: DE199-21EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00018 U	0.00018	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000026 U	0.000026	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	17b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.0	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111961AA	07/15/2011 13:24	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111951AA	07/14/2011 13:06	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111951AA	07/14/2011 13:06	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y111961AA	07/15/2011 13:24	Nicholas R Rossi	1
10962	15b NDMA by 1625C	EPA 1625C	1	11195WAH026	07/20/2011 14:34	Matthew S Woods	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11197WAL026	08/01/2011 13:25	Linda M Hartenstine	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11197WAH026	07/18/2011 10:29	Joseph M Gambler	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB-SA6-SB-071311 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-071311

LLI Sample # WW 6343413
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 12:30

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9921 SDG#: DE199-21EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00813	BNA Water Extraction	SW-846 3510C	1	11197WAL026	07/17/2011 20:30	Elaine F Stoltzfus	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11197WAH026	07/17/2011 21:45	Nicholas W Shroyer	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11195WAH026	07/15/2011 01:00	David V Hershey Jr	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11195C20A	07/15/2011 18:06	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	11195C20A	07/15/2011 18:06	Catherine J Schwarz	1
10131	16b Energetics by 8330A	SW-846 8330A	1	111990020A	07/22/2011 02:07	James H Place	1
04144	25b Formaldehyde 8315A	SW-846 8315A	1	111950003A	07/15/2011 17:05	James H Place	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	112000018A	07/21/2011 04:45	Sarah M Snyder	1
11117	PCB Waters Extraction	SW-846 3510C	1	112000018A	07/20/2011 02:00	Sherry L Morrow	1
01013	Formaldehyde Extraction	SW-846 8315A	1	111950003A	07/14/2011 14:30	Kelli M Barto	1
11122	Energetics Extraction	SW-846 8330	1	111990020A	07/19/2011 13:50	Olivia Arosemena	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	112010027A	07/21/2011 06:27	Elizabeth J Marin	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	111990001A	07/18/2011 13:05	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	111970015A	07/20/2011 23:54	Heather E Williams	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111970005A	07/19/2011 12:13	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	111970005A	07/17/2011 11:30	Kathryn I DeHaven	1
10304	Terphenyls water prep	SW-846 3510C	1	111970015A	07/18/2011 08:30	Catherine R Wiker	1
01743	Aluminum	SW-846 6010B	1	111961848002	07/19/2011 07:01	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	111961848002	07/19/2011 07:01	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	111961848002	07/19/2011 07:01	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	111961848002	07/19/2011 07:01	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	111961848002	07/19/2011 07:01	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	111961848002	07/19/2011 07:01	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	111961848002	07/19/2011 07:01	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	111961848002	07/19/2011 07:01	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	111961848002	07/19/2011 07:01	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	111961848002	07/19/2011 07:01	Tara L Snyder	1
08068	Strontium	SW-846 6010B	1	111961848002	07/19/2011 07:01	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	111961848002	07/19/2011 07:01	Tara L Snyder	1
07070	Titanium	SW-846 6010B	1	111961848002	07/19/2011 07:01	Tara L Snyder	1
10144	Zirconium	SW-846 6010B	1	111961848002	07/19/2011 07:01	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	111966050001A	07/19/2011 09:36	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111966050001A	07/19/2011 09:36	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111966050001D	07/19/2011 09:36	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111966050001A	07/19/2011 09:36	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111966050001A	07/19/2011 09:36	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111966050001A	07/19/2011 09:36	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111966050001A	07/19/2011 09:36	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111966050001A	07/19/2011 09:36	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111966050001A	07/19/2011 09:36	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111966050001C	07/19/2011 09:36	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111966050001A	07/19/2011 09:36	Choon Y Tian	1

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Sample Description: **EB-SA6-SB-071311 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-071311

LLI Sample # WW 6343413
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 12:30

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9921 SDG#: DE199-21EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06041	Selenium	SW-846 6020	1	111966050001B	07/19/2011 09:36	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111966050001A	07/19/2011 09:36	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111966050001A	07/19/2011 09:36	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111966050001A	07/19/2011 09:36	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111966050001A	07/19/2011 09:36	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111995713004	07/19/2011 08:27	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111961848002	07/16/2011 07:30	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111966050001	07/16/2011 07:25	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111995713004	07/18/2011 15:00	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11195196901B	07/14/2011 15:03	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11195196901B	07/14/2011 15:03	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11198621701A	07/17/2011 10:29	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11195281401A	07/14/2011 11:11	Elyse P Brunstetter	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11196117101B	07/15/2011 18:54	Joseph E McKenzie	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11196117101B	07/15/2011 09:40	Nancy J Shoop	1
00200	18b pH by 9040B	SW-846 9040B	1	11195020001A	07/14/2011 21:30	Luz M Groff	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB-SA6-SS-071311 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-071311

LLI Sample # WW 6343414
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 12:00

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9922 SDG#: DE199-22EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: EB-SA6-SS-071311 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-071311

LLI Sample # WW 6343414
LLI Group # 1256191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 12:00

Submitted: 07/14/2011 09:10
Reported: 08/24/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9922 SDG#: DE199-22EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111961AA	07/15/2011	13:45	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111951AA	07/14/2011	13:26	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111951AA	07/14/2011	13:26	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y111961AA	07/15/2011	13:45	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11195C20A	07/15/2011	18:28	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	11195C20A	07/15/2011	18:28	Catherine J Schwarz	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256191
Reported: 08/24/11 at 02:06 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111951AA	Sample number(s): 6343403,6343405,6343407-6343408,6343410									
Acetone	9.3		6.7	8.0	ug/kg	116	125	32-209	7	30
Benzene	0.10	U	0.10	4.0	ug/kg	109	105	80-120	3	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	102	101	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	114	109	79-124	5	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	107	107	78-120	0	30
Bromoform	0.40	U	0.40	4.0	ug/kg	108	110	70-120	1	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	84	83	32-162	0	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	101	106	46-153	5	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	103	104	72-120	1	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	101	102	75-120	0	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	100	97	75-120	3	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	118	114	69-122	3	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	107	106	80-120	1	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	75	75	37-154	1	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	86	83	43-146	3	30
Chloroform	0.14	J	0.12	4.0	ug/kg	114	111	80-120	3	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	91	92	54-132	1	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102	102	78-120	0	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	107	105	79-120	2	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	73	72	22-131	1	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	110	114	58-120	4	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	109	108	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	106	109	80-120	3	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	103	104	80-120	1	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	105	106	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	102	103	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	103	104	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	88	85	20-120	3	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	109	106	80-120	3	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	119	118	71-129	0	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	118	113	73-123	5	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	105	103	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	110	106	79-120	4	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	99	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	105	106	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	116	114	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	106	102	77-120	4	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	96	97	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	98	101	77-120	3	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	108	104	80-120	4	30
Freon 113	0.11	U	0.11	4.0	ug/kg	118	113	61-126	5	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	105	103	78-120	2	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	89	97	57-120	9	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	102	107	45-155	5	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	109	106	76-120	3	30

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256191
Reported: 08/24/11 at 02:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	101	102	75-120	1	30
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	106	109	74-121	3	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	102	105	61-134	3	30
Methylene Chloride	2.1	J	0.24	4.0	ug/kg	129*	127*	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	107	105	77-120	2	30
Styrene	0.10	U	0.10	4.0	ug/kg	109	107	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	111	111	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	101	103	71-123	2	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	108	109	77-120	0	30
Toluene	0.11	J	0.08	4.0	ug/kg	109	106	80-120	3	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	95	100	64-120	5	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	87	90	68-120	4	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	117	112	71-125	4	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	106	108	80-120	2	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	104	102	80-120	2	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	106	104	58-133	2	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	106	110	71-123	3	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	104	103	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	107	105	78-120	2	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	88	88	53-120	0	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	111	108	80-120	3	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	105	103	80-120	2	30
Batch number: E111951AA	Sample number(s): 6343412-6343414									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	110	106	80-123	3	30
Batch number: E111961AA	Sample number(s): 6343403,6343405,6343407-6343408,6343410									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	92	104	70-130	12	30
Batch number: Y111961AA	Sample number(s): 6343412-6343414									
Acetone	6	U	6.	20	ug/l	71	67	49-234	6	30
Benzene	0.5	U	0.5	5	ug/l	100	100	79-120	0	30
Bromobenzene	1	U	1.	5	ug/l	110	109	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	109	107	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	102	101	80-120	1	30
Bromoform	1	U	1.	5	ug/l	101	99	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	78	79	44-120	0	30
2-Butanone	3	U	3.	10	ug/l	85	85	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	96	95	74-120	2	30
sec-Butylbenzene	1	U	1.	5	ug/l	97	96	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	101	101	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	100	99	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	103	103	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	82	82	49-129	0	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	104	108	56-129	3	30
Chloroform	0.8	U	0.8	5	ug/l	102	102	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	77	78	60-129	2	30
2-Chlorotoluene	1	U	1.	5	ug/l	107	106	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	105	104	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	91	89	38-136	2	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	95	93	56-126	2	30
Dibromochloromethane	1	U	1.	5	ug/l	101	100	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	98	98	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	98	99	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	102	102	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	111	110	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	107	106	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	64	64	47-120	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256191
Reported: 08/24/11 at 02:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1-Dichloroethane	1	U	1.	5	ug/l	104	105	79-120	0	30
1,2-Dichloroethane	1	U	1.	5	ug/l	112	110	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	85	86	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	102	101	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	100	101	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	99	99	78-120	0	30
1,3-Dichloropropane	1	U	1.	5	ug/l	98	97	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	97	98	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	104	103	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	101	103	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	92	92	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	96	79-120	1	30
Freon 113	2	U	2.	10	ug/l	78	77	69-128	1	30
Freon 133a	2	U	2.	5	ug/l	80	80	77-120	0	30
Hexachlorobutadiene	2	U	2.	5	ug/l	95	96	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	83	83	65-136	0	30
Isopropylbenzene	1	U	1.	5	ug/l	102	101	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	102	102	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	97	98	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	89	87	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	98	97	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	94	94	80-120	0	30
Styrene	1	U	1.	5	ug/l	98	96	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	104	103	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	89	89	71-120	0	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	106	106	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	95	96	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	107	107	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	102	101	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	89	89	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	95	95	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	101	103	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	73	73	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	97	99	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	102	102	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	101	101	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	78	81	65-125	4	30
m+p-Xylene	0.8	U	0.8	5	ug/l	99	98	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
Batch number: 11195WAH026	Sample number(s): 6343413									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	102	100	70-130	2	30
Batch number: 11197WAH026	Sample number(s): 6343413									
Acenaphthene	0.010	U	0.010	0.050	ug/l	104	106	74-109	2	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	110	112*	70-110	1	30
Anthracene	0.010	U	0.010	0.050	ug/l	108	109	66-111	1	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	108	107	72-114	1	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	104	104	60-127	0	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	104	118	69-123	13	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	99	100	57-131	1	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	109	98	59-130	10	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	86	75	40-138	13	30
Di-n-butylphthalate	0.22	J	0.050	1.0	ug/l	108	104	74-131	4	30
Chrysene	0.010	U	0.010	0.050	ug/l	102	101	76-116	0	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	100	101	55-134	1	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	101	88	57-134	13	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	72	45	40-119	45*	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256191
Reported: 08/24/11 at 02:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Bis(2-Ethylhexyl)phthalate	0.21	J	0.050	1.0	ug/l	118	127	57-154	7	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	107	107	75-116	0	30
Fluorene	0.010	U	0.010	0.050	ug/l	114	115*	75-114	1	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	100	101	69-124	1	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	96	95	71-117	0	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	100	100	75-115	0	30
Naphthalene	0.030	U	0.030	0.050	ug/l	98	98	72-109	0	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	76	81	36-89	7	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	111	113	57-145	2	30
Phenanthrene	0.030	U	0.030	0.050	ug/l	101	102	76-111	1	30
Pyrene	0.010	U	0.010	0.050	ug/l	103	104	69-118	1	30
Batch number: 11197WAL026	Sample number(s): 6343413									
Aniline	1	U	1.	5	ug/l	80	83	38-116	3	30
Benzidine	20	U	20.	60	ug/l	79	74	34-117	6	30
Benzoic acid	83		6.	15	ug/l	45	42	10-69	6	30
Benzyl alcohol	5	U	5.	15	ug/l	85	91	66-97	6	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	100	103	75-115	3	30
Carbazole	1	U	1.	5	ug/l	99	102	75-120	3	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	102	105	70-123	2	30
4-Chloroaniline	1	U	1.	5	ug/l	83	76	24-128	8	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	100	102	74-124	2	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	94	101	77-108	8	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	91	97	62-127	6	30
2-Chloronaphthalene	2	U	2.	5	ug/l	85	89	54-132	4	30
2-Chlorophenol	1	U	1.	5	ug/l	98	103	71-114	5	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	101	104	77-114	3	30
Dibenzofuran	1	U	1.	5	ug/l	99	103	75-117	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	86	92	55-118	7	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	86	89	61-111	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	85	90	53-119	5	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	77	74	37-117	3	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	103	104	77-117	1	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	101	105	72-110	3	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	102	107	70-130	4	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	92	99	65-126	7	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	87	91	52-131	5	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	102	106	76-119	4	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	108	108	76-118	1	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	103	108	68-127	5	30
Hexachlorobenzene	1	U	1.	5	ug/l	96	99	75-119	4	30
Hexachlorobutadiene	1	U	1.	5	ug/l	95	95	57-124	1	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	104	109	36-118	6	30
Hexachloroethane	1	U	1.	5	ug/l	88	91	52-113	3	30
Isophorone	1	U	1.	5	ug/l	101	106	74-117	4	30
2-Methylphenol	1	U	1.	5	ug/l	91	97	58-110	7	30
4-Methylphenol	2	U	2.	5	ug/l	84	87	49-108	4	30
2-Nitroaniline	1	U	1.	5	ug/l	107	111	75-120	4	30
3-Nitroaniline	1	U	1.	5	ug/l	100	102	74-113	2	30
4-Nitroaniline	1	U	1.	5	ug/l	82	79	59-100	3	30
Nitrobenzene	1	U	1.	5	ug/l	100	102	75-109	3	30
2-Nitrophenol	1	U	1.	5	ug/l	107	112	76-118	4	30
4-Nitrophenol	10	U	10.	30	ug/l	49	49	16-78	0	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	96	101	69-110	5	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	103	107	67-136	4	30
Pentachlorophenol	3	U	3.	15	ug/l	91	97	53-110	6	30
Phenol	1	U	1.	5	ug/l	42	44	21-67	5	30
Tetralin	5	U	5.	5	ug/l	0*	0*	70-130	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256191
Reported: 08/24/11 at 02:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	94	99	71-112	5	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	104	109*	79-107	5	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	109	112	76-120	3	30
Batch number: 11201SLB026	Sample number(s): 6343393-6343397,6343399,6343401-6343403									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	98		70-130		
Batch number: 11201SLH026	Sample number(s): 6343393-6343411									
Acenaphthene	17	U	17.	170	ug/kg	94		76-111		
Aniline	170	U	170.	500	ug/kg	69		34-94		
Anthracene	17	U	17.	170	ug/kg	101		76-112		
Benzidine	1,200	U	1,200.	3,300	ug/kg	63		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	96		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	106		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	107		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	103		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	97		67-125		
Benzoic acid	170	U	170.	500	ug/kg	38*		62-113		
Benzyl alcohol	170	U	170.	500	ug/kg	91		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	96		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	102		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	102		79-112		
Carbazole	17	U	17.	170	ug/kg	96		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	95		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	69		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	92		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	89		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	86		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	78		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	95		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	96		79-110		
Chrysene	17	U	17.	170	ug/kg	92		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	106		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	93		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	87		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	89		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	85		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	65		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	95		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	98		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	95		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	98		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	97		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	30*		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	16*		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	95		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	100		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	98		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	100		75-117		
Fluoranthene	17	U	17.	170	ug/kg	99		78-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		78-116		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256191
Reported: 08/24/11 at 02:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachlorobutadiene	67	U	67.	170	ug/kg	93		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	98		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	90		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	104		64-119		
Isophorone	17	U	17.	170	ug/kg	93		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	93		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	89		66-117		
Naphthalene	17	U	17.	170	ug/kg	91		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	101		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	94		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	65		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	92		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	97		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	84		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	87		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	100		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	117		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	86		51-117		
Phenanthrene	17	U	17.	170	ug/kg	94		77-113		
Phenol	17	U	17.	170	ug/kg	90		58-112		
Pyrene	17	U	17.	170	ug/kg	93		75-115		
Tetralin	170	U	170.	170	ug/kg	106		70-130		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	88		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	101		78-111		
Batch number: 11201SLL026	Sample number(s): 6343393-6343411									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	102		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	100		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	104		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	125		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	135		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	127		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	132		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	110		65-131		
Di-n-butylphthalate	7.9	J	6.0	18	ug/kg	117		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	97		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	128		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	110		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	107		79-121		
Bis(2-Ethylhexyl)phthalate	6.5	J	6.0	18	ug/kg	119		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	107		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	102		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	129		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	85		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	89		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	111		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	140		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	101		56-121		
Batch number: 11195A34B	Sample number(s): 6343403,6343405-6343411									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256191
Reported: 08/24/11 at 02:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	77	80	67-119	4	30
Batch number: 11195C20A	Sample number(s): 6343412-6343414									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 111990020A	Sample number(s): 6343413									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	100	110	80-120	10	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	99	100	80-120	1	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	100	103	50-122	3	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	100	103	50-122	3	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	100	110	72-117	10	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	92	96	80-120	4	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	98	100	80-120	2	30
HMX	0.65	U	0.65	2.0	ug/l	97	99	65-125	2	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	89	92	75-121	3	30
Nitroglycerin	5.2	U	5.2	15	ug/l	104	108	80-120	4	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	92	98	74-120	6	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	98	100	69-107	2	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	93	97	80-120	4	30
PETN	6.0	U	6.0	18	ug/l	121*	125*	80-120	3	30
RDX	0.20	U	0.20	0.60	ug/l	91	91	70-125	0	30
Tetryl	0.40	U	0.40	0.60	ug/l	95	97	72-141	2	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	100	100	53-129	0	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	96	99	76-109	3	30
Batch number: 112070007A	Sample number(s): 6343396-6343397,6343399,6343401-6343403									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	111		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	111		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	98	100	54-134	3	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	97	100	54-134	3	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	115		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	106		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
HMX	100 U		100.	300	ug/kg	96		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	110		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	85		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	108		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	116		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	106		80-120		
PETN	800 U		800.	2,400	ug/kg	99		80-120		
RDX	50	U	50.	120	ug/kg	97		75-131		
Tetryl	61	U	61.	120	ug/kg	95		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	108		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
Batch number: 111950003A	Sample number(s): 6343413									
25b Formaldehyde 8315A	10	U	10.	50	ug/l	98	96	69-130	2	30
Batch number: 111970007A	Sample number(s): 6343393-6343397,6343399,6343401-6343403									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	99		80-126		
Batch number: 112010012A	Sample number(s): 6343393-6343404									
2,4-D	1.2	U	1.2	3.6	ug/kg	79		73-146		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256191
Reported: 08/24/11 at 02:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dalapon	4.4	U	4.4	9.0	ug/kg	51		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	68		62-131		
Dicamba	1.2	J	0.40	1.2	ug/kg	92		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	6*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	119		62-170		
MCPA	76	U	76.	250	ug/kg	79		60-130		
MCPP (Mecoprop)	470		75.	250	ug/kg	71		54-137		
2,4,5-T	0.090	J	0.082	0.17	ug/kg	73		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	64*		68-114		
Batch number: 112130022A	Sample number(s): 6343398,6343400,6343407									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	114		85-115		
Batch number: 112000018A	Sample number(s): 6343413									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	76	78	35-84	3	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	100	98	51-128	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	104	110	56-135	6	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 112010008A	Sample number(s): 6343393-6343404									
Aldrin	0.066	U	0.066	0.17	ug/kg	79		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	65		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	97		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	79		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	90		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	98		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	94		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	94		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	87		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	82		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	94		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	103		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	85		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	85		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	102		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	76		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	103		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	97		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112020012A	Sample number(s): 6343393-6343411									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	97	88	36-106	10	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	93		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256191
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	100		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111960003A	Sample number(s): 6343393-6343411									
Diethylene glycol	5.0	U	5.0	10	mg/kg	94		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	91		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	87		75-125		
Batch number: 111960030A	Sample number(s): 6343393-6343396,6343398-6343402,6343404-6343411									
Ethanol	100 U		100.	500	ug/kg	91		71-129		
Isopropanol	100 U		100.	500	ug/kg	92		75-125		
Methanol	100 U		100.	500	ug/kg	87		68-129		
Batch number: 111990001A	Sample number(s): 6343413									
Diethylene glycol	20	U	20.	200	mg/l	110	115	78-126	4	20
Ethylene glycol	20	U	20.	200	mg/l	89	105	80-124	16	20
Propylene glycol	20	U	20.	200	mg/l	85	100	80-120	16	20
Batch number: 112000030A	Sample number(s): 6343397,6343403									
Ethanol	100 U		100.	500	ug/kg	94	96	71-129	2	20
Isopropanol	100 U		100.	500	ug/kg	95	97	75-125	2	20
Methanol	100 U		100.	500	ug/kg	91	93	68-129	2	20
Batch number: 112010027A	Sample number(s): 6343413									
Ethanol	200 U		200.	1,000	ug/l	92		66-132		
Isopropanol	200 U		200.	1,000	ug/l	88		75-125		
Methanol	200 U		200.	1,000	ug/l	84		71-140		
Batch number: 111970005A	Sample number(s): 6343413									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	92	94	69-125	2	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	91	96	77-125	6	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	85	72	68-124	16	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	93	93	80-121	0	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	78	82	46-103	5	30
Batch number: 111970015A	Sample number(s): 6343413									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	75	76	75-125	1	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	90	92	75-125	2	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	86	87	75-125	1	20
Batch number: 112010017A	Sample number(s): 6343393-6343394									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	84		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	99		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	93		75-125		
Batch number: 112020029A	Sample number(s): 6343395-6343397,6343399-6343411									

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	84		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	94		75-125		
Batch number: 112020030A	Sample number(s): 6343393-6343411									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	104		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	108		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	112		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	88		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	70		54-107		
Batch number: 111961848002	Sample number(s): 6343413									
Aluminum	0.0801	U	0.0801	0.200	mg/l	102	104	90-112	2	20
Boron	0.0043	J	0.0022	0.0500	mg/l	101	102	89-110	1	20
Calcium	0.0705	U	0.0705	0.200	mg/l	105	105	90-112	0	20
Iron	0.0141	U	0.0141	0.200	mg/l	105	104	90-112	1	20
Lithium	0.0076	U	0.0076	0.0200	mg/l	101	101	80-120	0	20
Magnesium	0.0067	U	0.0067	0.100	mg/l	102	103	89-110	0	20
Manganese	0.00044	U	0.00044	0.0050	mg/l	106	108	90-110	1	20
Phosphorus	0.0047	U	0.0047	0.100	mg/l	107	107	80-120	0	20
Potassium	0.0874	U	0.0874	0.500	mg/l	102	102	85-115	0	20
Sodium	0.0647	U	0.0647	1.00	mg/l	99	99	87-114	0	20
Strontium	0.00029	J	0.00022	0.0050	mg/l	105	106	90-110	1	20
Tin	0.0043	U	0.0043	0.0200	mg/l	101	100	90-110	1	20
Titanium	0.00046	U	0.00046	0.0100	mg/l	102	102	90-113	1	20
Zirconium	0.0042	U	0.0042	0.0500	mg/l	103	103	80-120	0	20
Batch number: 111966050001A	Sample number(s): 6343413									
Antimony	0.00042	U	0.00042	0.0010	mg/l	109	103	87-110	6	20
Arsenic	0.00095	U	0.00095	0.0020	mg/l	109	100	86-111	8	20
Beryllium	0.00013	U	0.00013	0.00050	mg/l	105	103	90-113	2	20
Cadmium	0.00020	U	0.00020	0.00050	mg/l	105	110	90-114	5	20
Chromium	0.00060	U	0.00060	0.0020	mg/l	102	104	90-118	1	20
Cobalt	0.00010	U	0.00010	0.00050	mg/l	107	104	87-113	3	20
Copper	0.00038	U	0.00038	0.0020	mg/l	109	105	90-113	3	20
Lead	0.000080	U	0.00008 0	0.0010	mg/l	103	103	90-115	1	20
Nickel	0.00050	U	0.00050	0.0020	mg/l	109	107	90-113	2	20
Silver	0.000098	U	0.00009 8	0.00050	mg/l	105	105	90-115	0	20
Thallium	0.00015	U	0.00015	0.00050	mg/l	106	113	89-116	6	20
Vanadium	0.00018	U	0.00018	0.00050	mg/l	106	104	89-116	2	20
Zinc	0.0040	U	0.0040	0.0150	mg/l	104	109	90-116	5	20
Batch number: 111966050001B	Sample number(s): 6343413									
Selenium	0.00027	U	0.00027	0.0020	mg/l	103	105	85-114	2	20
Batch number: 111966050001C	Sample number(s): 6343413									
Molybdenum	0.00025	U	0.00025	0.00050	mg/l	106	102	89-115	3	20
Batch number: 111966050001D	Sample number(s): 6343413									
Barium	0.00069	U	0.00069	0.0020	mg/l	103	102	88-113	0	20
Batch number: 111991026001A	Sample number(s): 6343393-6343411									
Antimony	0.0740	U	0.0740	0.200	mg/kg	54		40-224		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	98		78-122		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	100		80-120		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	101		81-119		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256191
Reported: 08/24/11 at 02:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Chromium	0.120	U	0.120	0.400	mg/kg	102		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	95		80-119		
Copper	0.0800	U	0.0800	0.400	mg/kg	97		78-122		
Lead	0.0203	J	0.0102	0.200	mg/kg	98		77-123		
Nickel	0.100	U	0.100	0.400	mg/kg	105		80-120		
Silver	0.0142	U	0.0142	0.100	mg/kg	100		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	97		75-124		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	105		76-124		
Zinc	0.560	U	0.560	3.00	mg/kg	101		79-121		
Batch number: 111991026001B	Sample number(s): 6343393-6343411									
Selenium	0.0580	U	0.0580	0.400	mg/kg	104		77-123		
Batch number: 111991026001C	Sample number(s): 6343393-6343411									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	96		76-123		
Batch number: 111991026001D	Sample number(s): 6343393-6343411									
Barium	0.106	U	0.106	0.400	mg/kg	100		80-120		
Batch number: 111995708002	Sample number(s): 6343393-6343411									
Aluminum	5.93	U	5.93	19.6	mg/kg	129		42-158		
Boron	0.353	U	0.353	4.90	mg/kg	99		66-134		
Calcium	6.19	J	2.45	19.6	mg/kg	108		79-121		
Iron	4.55	J	2.56	19.6	mg/kg	118		51-149		
Lithium	0.61	U	0.61	2.0	mg/kg	95		80-120		
Magnesium	0.739	J	0.431	9.80	mg/kg	115		64-136		
Manganese	0.0471	J	0.0353	0.490	mg/kg	100		78-122		
Phosphorus	1.56	J	0.343	9.80	mg/kg	98		80-120		
Potassium	11.1	U	11.1	49.0	mg/kg	113		69-131		
Sodium	5.83	U	5.83	98.0	mg/kg	106		71-129		
Strontium	0.0333	J	0.0245	0.490	mg/kg	102		81-119		
Tin	1.55	J	0.314	9.80	mg/kg	92		74-126		
Titanium	0.0765	J	0.0696	0.980	mg/kg	150		40-186		
Zirconium	0.517	J	0.451	4.90	mg/kg	99		80-120		
Batch number: 111995711002	Sample number(s): 6343393-6343411									
Mercury	0.0066	U	0.0066	0.0944	mg/kg	100		72-128		
Batch number: 111995713004	Sample number(s): 6343413									
Mercury	0.000026 U		0.00002 6	0.00020	mg/l	105	106	80-120	1	20
Batch number: 11195196901B	Sample number(s): 6343413									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	106	107	90-110	1	20
11b Anions by 300.0 - Nitrate	0.050	U	0.050	0.10	mg/l	101	99	90-110	2	20
Batch number: 11195281401A	Sample number(s): 6343413									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	100	102	90-110	2	20
Batch number: 11196117101B	Sample number(s): 6343413									
17b Cyanide by 9012B	0.0050	U	0.0050	0.010	mg/l	101	102	90-110	1	20
Batch number: 11198621701A	Sample number(s): 6343413									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	94	97	85-115	3	20
Batch number: 11200621202A	Sample number(s): 6343393-6343402									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	113		85-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256191
Reported: 08/24/11 at 02:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11200621202B	Sample number(s): 6343403-6343411									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	113		85-115		
Batch number: 11201102201A	Sample number(s): 6343396-6343397,6343399,6343401-6343403									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11207621201A	Sample number(s): 6343393-6343402									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	106		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	100		90-110		
Batch number: 11207621201B	Sample number(s): 6343403-6343411									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	106		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	100		90-110		
Batch number: 11211243201A	Sample number(s): 6343393-6343411									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11195020001A	Sample number(s): 6343413									
18b pH by 9040B						100	100	90-110	0	3
Batch number: 11206039403A	Sample number(s): 6343393-6343401									
18a pH by 9045C						100		95-105		
Batch number: 11206039403B	Sample number(s): 6343402-6343411									
18a pH by 9045C						100		95-105		
Batch number: 11202162401A	Sample number(s): 6343393-6343395,6343398,6343400,6343404-6343411									
Moisture Content by 160.3						100		80-120		
Batch number: 11214162401A	Sample number(s): 6343396-6343397,6343399,6343401-6343403									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: E111961AA	Sample number(s): 6343403,6343405,6343407-6343408,6343410 UNSPK: P345448								
1,4-Dioxane	80	86	70-130	14	30				
Batch number: 11201SLB026	Sample number(s): 6343393-6343397,6343399,6343401-6343403 UNSPK: P342215								
N-Nitrosodimethylamine	85	95	70-130	11	30				
Batch number: 11201SLH026	Sample number(s): 6343393-6343411 UNSPK: 6343393								
Acenaphthene	96	94	75-115	3	30				
Aniline	65	65	35-95	0	30				
Anthracene	99	98	75-115	0	30				
Benzidine	34*	32*	35-141	7	30				
Benzo(a)anthracene	100	100	65-122	0	30				
Benzo(a)pyrene	102	106	57-126	4	30				
Benzo(b)fluoranthene	96	102	59-125	6	30				
Benzo(g,h,i)perylene	99	103	59-127	4	30				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(k)fluoranthene	98	99	56-132	1	30				
Benzoic acid	38	44	10-173	15	30				
Benzyl alcohol	88	91	67-115	4	30				
4-Bromophenyl-phenylether	94	93	67-129	0	30				
Butylbenzylphthalate	102	105	73-134	3	30				
Di-n-butylphthalate	99	100	67-123	1	30				
Carbazole	94	95	64-120	2	30				
4-Chloro-3-methylphenol	92	94	76-110	3	30				
4-Chloroaniline	66	72	23-95	9	30				
bis(2-Chloroethoxy)methane	92	95	75-104	4	30				
bis(2-Chloroethyl)ether	88	86	60-116	3	30				
bis(2-Chloroisopropyl)ether	86	87	55-142	1	30				
2-Chloronaphthalene	80	80	50-141	0	30				
2-Chlorophenol	93	94	73-121	1	30				
4-Chlorophenyl-phenylether	94	92	80-109	2	30				
Chrysene	93	95	62-128	2	30				
Dibenz(a,h)anthracene	102	104	65-125	2	30				
Dibenzofuran	91	89	71-112	3	30				
1,2-Dichlorobenzene	83	85	66-108	3	30				
1,3-Dichlorobenzene	82	84	63-109	3	30				
1,4-Dichlorobenzene	83	85	70-100	2	30				
3,3'-Dichlorobenzidine	84	90	16-119	7	30				
2,4-Dichlorophenol	91	96	78-117	5	30				
Diethylphthalate	95	92	66-118	2	30				
2,4-Dimethylphenol	92	95	78-110	3	30				
3,5-Dimethylphenol	94	97	70-130	3	30				
Dimethylphthalate	95	94	64-118	2	30				
4,6-Dinitro-2-methylphenol	10*	12*	24-116	13	30				
2,4-Dinitrophenol	0*	0*	20-143	0	30				
2,4-Dinitrotoluene	78	75	73-113	3	30				
2,6-Dinitrotoluene	90	86	69-123	5	30				
1,2-Diphenylhydrazine	99	98	71-129	0	30				
bis(2-Ethylhexyl)phthalate	106	109	63-122	2	30				
Fluoranthene	98	99	73-112	1	30				
Hexachlorobenzene	92	89	77-114	3	30				
Hexachlorobutadiene	91	96	62-120	6	30				
Hexachlorocyclopentadiene	11	14	10-153	21	30				
Hexachloroethane	55*	58	57-109	5	30				
Indeno(1,2,3-cd)pyrene	101	103	61-126	2	30				
Isophorone	92	94	73-102	2	30				
2-Methylphenol	91	91	75-111	1	30				
4-Methylphenol	87	86	71-111	2	30				
Naphthalene	90	94	72-116	4	30				
2-Nitroaniline	111	109	67-125	2	30				
3-Nitroaniline	103	100	59-122	4	30				
4-Nitroaniline	83	82	52-112	1	30				
Nitrobenzene	91	93	72-106	3	30				
2-Nitrophenol	76	80	74-115	5	30				
4-Nitrophenol	81	78	54-113	4	30				
N-Nitroso-di-n-propylamine	87	87	60-116	0	30				
N-Nitrosodiphenylamine	100	98	86-145	1	30				
Di-n-octylphthalate	112	116	56-126	4	30				
Pentachlorophenol	64	68	28-127	6	30				

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Quality Control Summary

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Reported: 08/24/11 at 02:06 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Phenanthrene	93	93	65-125	1	30				
Phenol	83	83	58-126	1	30				
Pyrene	93	93	74-126	0	30				
Tetralin	0*	0*	70-130	0	30				
1,2,4-Trichlorobenzene	89	93	72-115	4	30				
2,4,5-Trichlorophenol	99	88	78-109	11	30				
2,4,6-Trichlorophenol	103	101	77-115	2	30				
Batch number: 11201SLL026	Sample number(s): 6343393-6343411 UNSPK: 6343393								
Acenaphthene	93	92	63-105	1	30				
Acenaphthylene	95	97	67-114	1	30				
Anthracene	98	99	60-122	1	30				
Benzo(a)anthracene	112	116	59-128	4	30				
Benzo(a)pyrene	127	130	45-138	3	30				
Benzo(b)fluoranthene	140	137	43-155	2	30				
Benzo(g,h,i)perylene	84	77	33-141	8	30				
Benzo(k)fluoranthene	115	119	42-144	4	30				
Butylbenzylphthalate	161	164	57-173	2	30				
Di-n-butylphthalate	96	102	65-148	3	30				
Chrysene	96	90	48-134	6	30				
Dibenz(a,h)anthracene	106	101	22-133	4	30				
Diethylphthalate	119	121	70-136	2	30				
Dimethylphthalate	106	106	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	163	136	39-167	11	30				
Fluoranthene	112	114	26-166	2	30				
Fluorene	102	104	66-122	2	30				
Indeno(1,2,3-cd)pyrene	102	97	21-143	5	30				
1-Methylnaphthalene	84	84	72-123	0	30				
2-Methylnaphthalene	86	86	64-103	0	30				
Naphthalene	92	90	61-102	2	30				
N-Nitrosodimethylamine	87	109	48-113	23	30				
Di-n-octylphthalate	201*	201*	40-192	0	30				
Phenanthrene	102	102	12-165	0	30				
Pyrene	104	101	15-153	2	30				
Batch number: 112070007A	Sample number(s): 6343396-6343397,6343399,6343401-6343403 UNSPK: 6343396								
4-Amino-2,6-Dinitrotoluene	107	108	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	105	107	80-137	2	50				
1,3-Dinitrobenzene	110	112	38-166	2	50				
2,4-Dinitrotoluene	101	104	80-131	2	50				
2,6-Dinitrotoluene	105	107	80-127	3	50				
HMX	90	91	63-128	1	50				
Nitrobenzene	103	107	80-125	4	50				
Nitroglycerin	85	85	80-120	1	50				
2-Nitrotoluene	103	106	80-122	3	50				
3-Nitrotoluene	111	114	72-119	2	50				
4-Nitrotoluene	102	105	80-125	3	50				
PETN	98	100	80-121	2	50				
RDX	87	89	75-129	2	50				
Tetryl	88	87	55-174	1	50				
1,3,5-Trinitrobenzene	102	105	82-126	3	50				
2,4,6-Trinitrotoluene	108	110	82-130	2	50				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111970007A	Sample number(s): 6343393-6343397,6343399,6343401-6343403 UNSPK: P342215								
25a Formaldehyde 8315A	99	96	80-120	2	50				
Batch number: 112010012A	Sample number(s): 6343393-6343404 UNSPK: 6343393								
2,4-D	63	81	17-180	24	35				
Dalapon	37	42	10-125	12	50				
2,4-DB	176	168	10-201	5	50				
Dicamba	89	98	10-190	9	50				
Dinoseb	0*	6*	10-46	200*	35				
2,4-DP (Dichlorprop)	94	51	33-178	60*	50				
MCPA	-10*	2*	10-213	40	50				
MCPP (Mecoprop)	34	48	10-184	33	50				
2,4,5-T	49	72	10-156	29	35				
2,4,5-TP	28	66	24-141	82*	35				
Batch number: 112130022A	Sample number(s): 6343398,6343400,6343407 UNSPK: P352971								
6a Perchlorate EPA 6850	119	121*	80-120	2	20				
Batch number: 112010008A	Sample number(s): 6343393-6343404 UNSPK: 6343393								
Aldrin	0*	0*	16-126	0	50				
Alpha BHC	79	74	10-129	8	50				
Beta BHC	0*	134	14-147	200*	50				
Gamma BHC - Lindane	79	150*	10-140	62*	50				
p,p-DDD	0*	0*	16-163	0	50				
p,p-DDE	358*	363*	18-161	1	50				
p,p-DDT	-1369 (2)	-1292 (2)	10-176	6	50				
Delta BHC	81	106	23-140	27	50				
Dieldrin	366*	404*	19-154	10	50				
Endosulfan I	0*	0*	16-137	0	50				
Endosulfan II	172*	200*	28-154	15	50				
Endosulfan Sulfate	0*	0*	21-160	0	50				
Endrin	164*	173*	11-149	5	50				
Endrin Aldehyde	108	117	10-148	8	35				
Endrin Ketone	97	88	22-165	10	50				
Heptachlor	0*	0*	13-126	0	50				
Heptachlor Epoxide	385*	355*	13-157	8	50				
Methoxychlor	105	113	32-147	8	50				
Batch number: 112020012A	Sample number(s): 6343393-6343411 UNSPK: 6343394								
PCB-1016	372*	273*	29-146	31	50				
PCB-1260	563*	998*	39-149	56*	50				
Batch number: 111960003A	Sample number(s): 6343393-6343411 UNSPK: 6343393								
Diethylene glycol	22*	30*	59-109	31*	20				
Ethylene glycol	49*	70	63-107	34*	20				
Propylene glycol	57*	79	63-107	33*	20				
Batch number: 111960030A	Sample number(s): 6343393-6343396,6343398-6343402,6343404-6343411 UNSPK: 6343394								
Ethanol	84	89	48-130	6	20				
Isopropanol	92	95	12-149	4	20				
Methanol	84	91	43-138	7	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256191
Reported: 08/24/11 at 02:06 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112010027A	Sample number(s): 6343413 UNSPK: P344432								
Ethanol	96	100	62-145	4	20				
Isopropanol	88	88	73-131	0	20				
Methanol	88	96	52-159	9	20				
Batch number: 112010017A	Sample number(s): 6343393-6343394 UNSPK: P342209								
m-Terphenyl	84	85	75-125	1	20				
o-Terphenyl	98	99	75-125	1	20				
p-Terphenyl	93	94	75-125	1	20				
Batch number: 112020029A	Sample number(s): 6343395-6343397,6343399-6343411 UNSPK: 6343395								
m-Terphenyl	31*	56*	75-125	57*	20				
o-Terphenyl	36*	64*	75-125	57*	20				
p-Terphenyl	34*	60*	75-125	57*	20				
Batch number: 112020030A	Sample number(s): 6343393-6343411 UNSPK: 6343393								
EFH (C12-C14)	144*	126*	49-123	13	20				
EFH (C15-C20)	117	97	49-123	7	20				
EFH (C21-C30)	-327 (2)	-1170 (2)	49-123	56*	20				
EFH (C30 - C40)	-511 (2)	-105 (2)	49-123	17	20				
EFH (C8-C11)	98	0*	49-123	200*	20				
Batch number: 111991026001A	Sample number(s): 6343393-6343411 UNSPK: 6343393 BKG: 6343393								
Antimony	22*	14*	75-125	28*	20	0.112 J	0.168 J	40* (1)	20
Arsenic	127*	124	75-125	1	20	5.43	7.59	33*	20
Beryllium	89	96	75-125	5	20	0.424	0.483	13 (1)	20
Cadmium	98	100	75-125	1	20	0.168	0.239	35* (1)	20
Chromium	123	99	75-125	9	20	15.8	16.8	7	20
Cobalt	85	84	75-125	1	20	6.15	8.65	34*	20
Copper	93	65*	75-125	13	20	12.6	15.1	18	20
Lead	103	116	75-125	4	20	7.00	8.15	15	20
Nickel	85	86	75-125	1	20	10.6	11.0	4	20
Silver	100	100	75-125	0	20	0.0424 J	0.0364 J	15 (1)	20
Thallium	96	100	75-125	3	20	0.188	0.221	16 (1)	20
Vanadium	74*	107	75-125	8	20	34.3	37.8	10	20
Zinc	76 (2)	114 (2)	75-125	5	20	60.5	70.0	15	20
Batch number: 111991026001B	Sample number(s): 6343393-6343411 UNSPK: 6343393 BKG: 6343393								
Selenium	85	89	75-125	4	20	0.104 J	0.0929 J	12 (1)	20
Batch number: 111991026001C	Sample number(s): 6343393-6343411 UNSPK: 6343393 BKG: 6343393								
Molybdenum	101	91	75-125	10	20	0.463	0.543	16 (1)	20
Batch number: 111991026001D	Sample number(s): 6343393-6343411 UNSPK: 6343393 BKG: 6343393								
Barium	164 (2)	160 (2)	75-125	1	20	76.7	86.3	12	20
Batch number: 111995708002	Sample number(s): 6343393-6343411 UNSPK: 6343400 BKG: 6343400								
Aluminum	807 (2)	999 (2)	75-125	3	20	7,970	8,630	8	20
Boron	91	91	84-115	4	20	0.629 J	0.379 J	50* (1)	20
Calcium	-66 (2)	-147 (2)	75-125	12	20	2,870	1,850	43*	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256191
Reported: 08/24/11 at 02:06 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Iron	-34 (2)	1073 (2)	75-125	7	20	14,200		16,900		18	20
Lithium	98	102	82-114	1	20	50.1		50.3		0	20
Magnesium	120 (2)	171 (2)	75-125	2	20	3,450		3,480		1	20
Manganese	70 (2)	99 (2)	75-125	5	20	211		209		1	20
Phosphorus	233*	109	75-125	28*	20	296		324		9	20
Potassium	93	99	75-125	0	20	2,700		2,420		11	20
Sodium	94	94	75-125	4	20	98.9		99.5		1 (1)	20
Strontium	97	97	75-115	4	20	6.98		7.87		12	20
Tin	90	88	80-110	7	20	2.05	J	2.19	J	6 (1)	20
Titanium	164 (2)	213 (2)	75-125	4	20	780		775		1	20
Zirconium	97	96	75-125	5	20	1.60	J	1.66	J	4 (1)	20
Batch number: 111995711002	Sample number(s): 6343393-6343411 UNSPK: 6343405 BKG: 6343405										
Mercury	109	110	65-135	2	20	0.0068	U	0.0068	U	0 (1)	20
Batch number: 11195281401A	Sample number(s): 6343413 UNSPK: P343337 BKG: P343337										
3b Cr VI by EPA 7199	96		59-135			5.0	U	5.0	U	0 (1)	20
Batch number: 11200621202A	Sample number(s): 6343393-6343402 UNSPK: 6343393 BKG: 6343393										
7a Perchlorate EPA 314.0	113		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11200621202B	Sample number(s): 6343403-6343411 UNSPK: 6343403 BKG: 6343403										
7a Perchlorate EPA 314.0	105		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11201102201A	Sample number(s): 6343396-6343397,6343399,6343401-6343403 UNSPK: 6343396 BKG: 6343396										
17a Cyanide by 9012B	99		75-125			0.18	U	0.22	J	200* (1)	20
Batch number: 11207621201A	Sample number(s): 6343393-6343402 UNSPK: 6343393 BKG: 6343393										
11a Anions by 300.0 - Fluoride	89		80-120			0.80	U	0.80	U	0 (1)	20
11a Anions by 300.0 - Nitrate	101		80-120			2.8		3.5		22* (1)	20
Batch number: 11207621201B	Sample number(s): 6343403-6343411 UNSPK: 6343403 BKG: 6343403										
11a Anions by 300.0 - Fluoride	105		80-120			0.80	U	1.5		200* (1)	20
11a Anions by 300.0 - Nitrate	100		80-120			1.8		2.3		25* (1)	20
Batch number: 11211243201A	Sample number(s): 6343393-6343411 UNSPK: 6343394 BKG: 6343394										
3a Cr VI by EPA 7199	77		75-125			0.54	J	0.75	J	32* (1)	20
Batch number: 11206039403A	Sample number(s): 6343393-6343401 BKG: 6343393										
18a pH by 9045C						7.97		7.94		0	3
Batch number: 11206039403B	Sample number(s): 6343402-6343411 BKG: 6343402										
18a pH by 9045C						6.55		6.56		0	3
Batch number: 11202162401A	Sample number(s): 6343393-6343395,6343398,6343400,6343404-6343411 BKG: 6343408										
Moisture Content by 160.3						10.5		12.2		15	20
Batch number: 11214162401A	Sample number(s): 6343396-6343397,6343399,6343401-6343403 BKG: P345435										
Moisture Content by 160.3						0.50	U	0.50	U	0 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256191
Reported: 08/24/11 at 02:06 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111951AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6343403	113	108	98	97
6343405	110	102	99	89
6343407	112	108	97	91
6343408	111	102	100	87
6343410	77*	107	98	92
Blank	110	105	100	92
LCS	105	102	104	103
LCSD	104	103	103	103
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111951AA

	Toluene-d8
6343412	102
6343413	102
6343414	102
Blank	102
LCS	104
LCSD	102
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111961AA

	Toluene-d8
6343403	99
6343405	97
6343407	97
6343408	97
6343410	98
Blank	98
LCS	98
LCSD	98
MS	98
MSD	98
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y111961AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6343412	104	107	92	90
6343413	104	106	93	90
6343414	105	106	92	90
Blank	103	107	93	92

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256191
Reported: 08/24/11 at 02:06 PM

Surrogate Quality Control

LCS	104	107	94	94
LCSD	104	107	94	94
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15b NDMA by 1625C
Batch number: 11195WAH026

	N-Nitrosodimethylamine-d6
6343413	91
Blank	75
LCS	84
LCSD	85
Limits:	50-150

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11197WAH026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6343413	134*	101	109
Blank	114	101	112
LCS	117	102	105
LCSD	116	102	104
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11197WAL026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6343413	56	35	95	92	90	84
Blank	64	45	95	92	96	81
LCS	65	44	95	96	98	84
LCSD	70	46	98	101	103	89
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11201SLB026

	N-Nitrosodimethylamine-d6
6343393	68
6343394	65
6343395	71
6343396	61
6343397	61
6343399	66
6343401	70
6343402	59
6343403	56
Blank	82
LCS	79
MS	63
MSD	62

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256191
Reported: 08/24/11 at 02:06 PM

Surrogate Quality Control

Limits: 50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11201SLH026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6343393	89	87	81	85	93	82
6343394	86	86	80	83	91	80
6343395	90	90	73	84	89	82
6343396	92	92	81	87	96	85
6343397	88	91	83	91	95	80
6343398	93	94	79	89	96	85
6343399	83	83	83	82	87	81
6343400	86	83	79	81	92	83
6343401	88	88	85	84	89	82
6343402	95	94	90	88	96	86
6343403	81	79	81	75	82	76
6343404	93	89	86	86	89	84
6343405	92	89	77	84	82	78
6343406	86	81	87	78	82	79
6343407	95	92	83	85	88	82
6343408	97	94	83	86	89	81
6343409	93	91	83	86	86	81
6343410	95	74	22*	92	97	83
6343411	188*	186*	144*	181*	187*	156*
Blank	77	79	75	78	83	74
LCS	93	92	88	88	93	81
MS	91	91	83	88	94	80
MSD	91	91	83	90	93	82
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11201SLL026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6343393	108	91	84
6343394	108	95	91
6343395	101	85	82
6343396	110	94	87
6343397	104	88	65
6343398	112	96	88
6343399	102	87	85
6343400	111	94	85
6343401	111	95	95
6343402	114	84	55
6343403	127	90	100
6343404	104	92	88
6343405	105	88	95
6343406	103	88	90
6343407	106	93	94
6343408	104	90	90
6343409	105	92	95
6343410	110	83	80
6343411	94	85	86
Blank	99	86	94
LCS	105	91	98

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256191
Reported: 08/24/11 at 02:06 PM

Surrogate Quality Control

MS	108	92	85
MSD	106	88	80
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11195A34B

	Trifluorotoluene-F
6343403	105
6343405	92
6343406	78
6343407	81
6343408	78
6343409	79
6343410	102
6343411	112
Blank	81
LCS	89
LCSD	92
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11195C20A

	Trifluorotoluene-F
6343412	89
6343413	89
6343414	90
Blank	88
LCS	116
LCSD	113
Limits:	63-135

Analysis Name: 25b Formaldehyde 8315A
Batch number: 111950003A

	Butyraldehyde
6343413	112
Blank	108
LCS	106
LCSD	99
Limits:	45-145

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111970007A

	Butyraldehyde
6343393	93
6343394	93
6343395	94
6343396	80
6343397	93
6343399	98

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256191
Reported: 08/24/11 at 02:06 PM

Surrogate Quality Control

6343401	90
6343402	96
6343403	87
Blank	101
LCS	99
MS	98
MSD	95
Limits:	64-126

Analysis Name: 16b Energetics by 8330A
Batch number: 111990020A

	2-Nitro-m-xylene
6343413	96
Blank	88
LCS	97
LCSD	92
Limits:	50-134

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 112000018A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6343413	110	95
Blank	106	96
LCS	107	99
LCSD	105	99
Limits:	30-150	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 112010008A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6343393	107	59
6343394	74	376*
6343395	127	93
6343396	65	60
6343397	77	1085*
6343398	116	235*
6343399	85	103
6343400	77	95
6343401	41*	102
6343402	75	73
6343403	65	596*
6343404	85	108
Blank	56	102
LCS	66	103
MS	66	86
MSD	71	99
Limits:	50-130	20-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112010012A

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256191
Reported: 08/24/11 at 02:06 PM

Surrogate Quality Control

	2,4-Dichlorophenylacetic acid
6343393	140
6343394	79
6343395	108
6343396	62
6343397	69
6343398	90
6343399	91
6343400	77
6343401	95
6343402	66
6343403	66
6343404	67
Blank	60
LCS	87
MS	100
MSD	111
Limits:	36-156

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112020012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6343393	95	73
6343394	58	64
6343395	27*	31*
6343396	92	60
6343397	67	50
6343398	93	81
6343399	89	81
6343400	97	112
6343401	87	80
6343402	89	72
6343403	16*	0*
6343404	80	77
6343405	87	78
6343406	93	84
6343407	89	84
6343408	87	66
6343409	93	81
6343410	60	49
6343411	66	70
Blank	102	91
LCS	96	93
LCSD	101	99
MS	73	84
MSD	79	89
Limits:	53-139	45-120

Analysis Name: 16a Energetics by 8330A
Batch number: 112070007A

	2-Nitro-m-xylene

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256191
Reported: 08/24/11 at 02:06 PM

Surrogate Quality Control

6343396	131
6343397	129
6343399	139
6343401	133
6343402	132
6343403	123
Blank	132
LCS	131
LCSD	117
MS	117
MSD	112

Limits: 80-146

Analysis Name: 21a Glycols by 8015B
Batch number: 111960003A

Tetramethylene glycol

6343393	94
6343394	95
6343395	92
6343396	94
6343397	92
6343398	93
6343399	88
6343400	88
6343401	87
6343402	86
6343403	94
6343404	92
6343405	92
6343406	93
6343407	97
6343408	90
6343409	95
6343410	96
6343411	92
Blank	90
LCS	95
MS	98
MSD	102

Limits: 29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 111960030A

Acetone

6343393	112
6343394	98
6343395	99
6343396	149*
6343398	91
6343399	103
6343400	105
6343401	104
6343402	88
6343404	91

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256191
Reported: 08/24/11 at 02:06 PM

Surrogate Quality Control

6343405	81	
6343406	79	
6343407	87	
6343408	80	
6343409	88	
6343410	85	
6343411	84	
Blank	91	
LCS	92	
MS	96	
MSD	98	
Limits:	42-138	

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 111970005A

	Chlorobenzene	Orthoterphenyl
6343413	86	80
Blank	86	81
LCS	81	94
LCSD	84	99
Limits:	28-152	52-131

Analysis Name: 20b Terphenyls by 8015B
Batch number: 111970015A

	n-Triacontane-d62
6343413	73
Blank	76
LCS	75
LCSD	75
Limits:	50-150

Analysis Name: 21b Glycols by 8015B
Batch number: 111990001A

	Tetramethylene glycol
6343413	112
Blank	101
LCS	110
LCSD	111
Limits:	77-119

Analysis Name: 19a Alcohols by 8015B
Batch number: 112000030A

	Acetone
6343397	107
6343403	98
Blank	99
LCS	98
LCSD	100

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256191
Reported: 08/24/11 at 02:06 PM

Surrogate Quality Control

Limits: 42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 112010017A

	n-Triacontane-d62
6343393	82
6343394	1*
Blank	87
LCS	84
MS	84
MSD	84

Limits: 50-150

Analysis Name: 19b Alcohols by 8015B
Batch number: 112010027A

	Acetone
6343413	101
Blank	100
LCS	103
MS	104
MSD	103

Limits: 54-147

Analysis Name: 20a Terphenyls by 8015B
Batch number: 112020029A

	n-Triacontane-d62
6343395	26*
6343396	70
6343397	46*
6343399	69
6343400	80
6343401	74
6343402	59
6343403	89
6343404	59
6343405	80
6343406	79
6343407	84
6343408	78
6343409	79
6343410	106
6343411	85
Blank	85
LCS	87
MS	22*
MSD	40*

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112020030A

	Chlorobenzene	Orthoterphenyl

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256191
Reported: 08/24/11 at 02:06 PM

Surrogate Quality Control

6343393	72	100
6343394	61	99
6343395	76	105
6343396	80	112
6343397	72	106
6343398	74	108
6343399	83	110
6343400	70	111
6343401	73	107
6343402	71	109
6343403	98	132
6343404	63	107
6343405	66	93
6343406	64	102
6343407	71	104
6343408	68	92
6343409	78	106
6343410	75	115
6343411	69	102
Blank	80	106
LCS	87	114
MS	78	111
MSD	68	99
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cp#1256191 sample#6343393-414

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/HCFs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**Pesticides EPA 8081A (surface soil only)	**Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPA EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-280-SA6-SS-0.0-0.5	07.12.11	1543	SOIL	NONE	1-SS Sleeve			X	X																				
SL-280-SA6-SS-0.0-0.5	07.12.11	1543	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X		X	X			X	X	X	
SL-281-SA6-SS-0.0-0.5	07.12.11	1430	SOIL	NONE	1-SS Sleeve			X	X																				
SL-281-SA6-SS-0.0-0.5	07.12.11	1430	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X		X	X			X	X	X	
SL-300-SA6-SS-0.0-0.5	07.12.11	1505	SOIL	NONE	1-SS Sleeve			X	X																				
SL-300-SA6-SS-0.0-0.5	07.12.11	1505	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X		X	X			X	X	X	
SL-030-SA6-SS-0.0-0.5	07.13.11	1110	SOIL	NONE	1-SS Sleeve			X	X																				
SL-030-SA6-SS-0.0-0.5	07.13.11	1110	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X	X	X	X	X	X	X	X	X	
SL-035-SA6-SS-0.0-0.5	07.13.11	1005	SOIL	NONE	1-SS Sleeve			X	X																				
SL-035-SA6-SS-0.0-0.5	07.13.11	1005	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X	X	X	X	X	X	X	X	X	
SL-040-SA6-SS-0.0-0.5	07.13.11	0945	SOIL	NONE	1-SS Sleeve			X	X																				
SL-040-SA6-SS-0.0-0.5	07.13.11	0945	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X				X	X						X	X	
SL-047-SA6-SS-0.0-0.5	07.13.11	1353	SOIL	NONE	1-SS Sleeve			X	X																				
SL-047-SA6-SS-0.0-0.5	07.13.11	1353	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X	X	X	X	X	X	X	X	X	
SL-059-SA6-SS-0.0-0.5	07.13.11	1323	SOIL	NONE	1-SS Sleeve			X	X																				
SL-059-SA6-SS-0.0-0.5	07.13.11	1323	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X				X						X	X	X	
SL-066-SA6-SS-0.0-0.5	07.13.11	1443	SOIL	NONE	1-SS Sleeve			X	X																				
SL-066-SA6-SS-0.0-0.5	07.13.11	1443	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X	X	X	X	X	X	X	X	X	
SL-067-SA6-SS-0.0-0.5	07.13.11	1413	SOIL	NONE	1-SS Sleeve			X	X																				
SL-067-SA6-SS-0.0-0.5	07.13.11	1413	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X	X	X	X	X	X	X	X	X	
SL-278-SA6-SS-0.0-0.5	07.13.11	0910	SOIL	NONE	1-SS Sleeve			X	X																				
SL-278-SA6-SS-0.0-0.5	07.13.11	0910	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X	X	X	X	X	X	X	X	X	
SL-278-SA6-SS-0.0-0.5	07.13.11	0910	SOIL	NONE	5- Encores												X	X	X										R-D=10ppm so encores collected
SL-279-SA6-SS-0.0-0.5	07.13.11	0738	SOIL	NONE	1-SS Sleeve			X	X																				
SL-279-SA6-SS-0.0-0.5	07.13.11	0738	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X						X	X	X	Primary,alcohols,glycos,terphenys,TPH only

Relinquished by: (*Signature*) | Date/Time: 07/13/2011 / 1600 | Received for Laboratory by: (*Signature*)

Received by: (*Signature*) | Date/Time: 7/14/11 0940 | Airbill No.(s): 8754 3340 5315, 5326,5337,5750,5760

Laboratory: Lancaster Laboratories, Inc.

acct# 13013 Cap# 1256191 sample# 6343393-414

CHAIN OF CUSTODY RECORD

CDM — SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA8) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-072-SA6-SB-4.5	07.13.11	0820	SOIL	NONE	5-Encores										X	X	X										
SL-072-SA6-SB-4.0-5.0	07.13.11	0825	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-072-SA6-SB-9.5	07.13.11	0830	SOIL	NONE	1-Encores												X										
SL-072-SA6-SB-9.0-10.0	07.13.11	0835	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-116-SA6-SB-3.0	07.13.11	0930	SOIL	NONE	5-Encores										X	X	X										
SL-116-SA6-SB-2.5-3.5	07.13.11	0935	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-118-SA6-SB-4.5	07.13.11	1350	SOIL	NONE	5-Encores										X	X	X										
SL-118-SA6-SB-4.0-5.0	07.13.11	1355	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-118-SA6-SB-11.0	07.13.11	1340	SOIL	NONE	1-Encores												X										
SL-118-SA6-SB-10.5-11.5	07.13.11	1345	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-083-SA6-SB-4.5	07.13.11	1500	SOIL	NONE	5-Encores										X	X	X										
SL-083-SA6-SB-4.0-5.0	07.13.11	1505	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-083-SA6-SB-9.5	07.13.11	1510	SOIL	NONE	1-Encores												X										
SL-083-SA6-SB-9.0-10.0	07.13.11	1515	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
TB-071311	07.13.11	0800	WATER	NONE	4-40mL vials										X	X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	07/13/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time 7/14/11 / 0910	Airbill No.(s) 8754 3340 5315, 5326,5337,5750,5760	

acct# 13013 Cap# 1256191 sample# 6343393-414

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS										VOCs			SECONDARY FOR ALL LOCATIONS										
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015R	**Alcohols EPA 8015B	Other Instructions and Notes
EB-SA6-SB-071311	07.13.11	1230	WATER	NONE	10-1 liter ambers			X	X	X								X			X	X		X			
EB-SA6-SB-071311	07.13.11	1230	WATER	NONE	1-500 mL poly		X				X	X	X														
EB-SA6-SB-071311	07.13.11	1230	WATER	HNO3	1-500 mL poly	X																					
EB-SA6-SB-071311	07.13.11	1230	WATER	NaOH	1-500 mL glass																		X				
EB-SA6-SB-071311	07.13.11	1230	WATER	NONE	1-250 mL glass															X							
EB-SA6-SB-071311	07.13.11	1230	WATER	HCl	11-40 mL vials										X	X	X									X	
EB-SA6-SB-071311	07.13.11	1230	WATER	NONE	4-40 mL vials														X						X		
EB-SA6-SS-071311	07.13.11	1200	WATER	HCl	9-40 mL vials										X	X	X										Laboratory:
	07/13/2011 / 1600																										Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s)																								
	7/13/11 1600		8754 3340 5315, 5326,5337,5750,5760																								

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 15, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/14/2011
Group Number: 1256193
SDG: DX111
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-280-SA6-SS-0.0-0.5 Soil	6343417
SL-281-SA6-SS-0.0-0.5 Soil	6343418
SL-300-SA6-SS-0.0-0.5 Soil	6343419
SL-030-SA6-SS-0.0-0.5 Soil	6343420
SL-035-SA6-SS-0.0-0.5 Soil	6343421
SL-040-SA6-SS-0.0-0.5 Soil	6343422
SL-047-SA6-SS-0.0-0.5 Soil	6343423
SL-059-SA6-SS-0.0-0.5 Soil	6343424
SL-066-SA6-SS-0.0-0.5 Soil	6343425
SL-067-SA6-SS-0.0-0.5 Soil	6343426
SL-278-SA6-SS-0.0-0.5 Soil	6343427
SL-279-SA6-SS-0.0-0.5 Soil	6343428

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-280-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-280-SA6-SS-0.0-0.5

LLI Sample # SW 6343417
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 15:43

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1108 SDG#: DX111-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-280-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-280-SA6-SS-0.0-0.5

LLI Sample # SW 6343417
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 15:43

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1108 SDG#: DX111-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	1.73	B	0.0526	1.02	1
11031	12378-PeCDD	40321-76-4	7.00	B	0.119	5.11	1
11031	123478-HxCDD	39227-28-6	761	B	0.136	5.11	1
11031	123678-HxCDD	57653-85-7	14.4	BQ	0.144	5.11	1
11031	123789-HxCDD	19408-74-3	6.30	B	0.132	5.11	1
11031	1234678-HpCDD	35822-46-9	474	B	0.303	5.11	1
11031	OCDD	3268-87-9	7,290	EB	0.193	10.2	1
11650	2378-TCDF-Conf	51207-31-9	0.674	JC	0.0802	1.02	1
11031	12378-PeCDF	57117-41-6	8.88	B	0.0836	5.11	1
11031	23478-PeCDF	57117-31-4	1.45	JBQ	0.0834	5.11	1
11031	123478-HxCDF	70648-26-9	2.69	JB	0.0927	5.11	1
11031	123678-HxCDF	57117-44-9	1.33	JB	0.0870	5.11	1
11031	123789-HxCDF	72918-21-9	0.422	JB	0.106	5.11	1
11031	234678-HxCDF	60851-34-5	1.81	JB	0.0850	5.11	1
11031	1234678-HpCDF	67562-39-4	34.8	B	0.0765	5.11	1
11031	1234789-HpCDF	55673-89-7	3.58	JB	0.112	5.11	1
11031	OCDF	39001-02-0	102	B	0.0711	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-2378-TCDF-Conf	69	24 - 169
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	50	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	58	24 - 185
13C12-23478-PeCDF	56	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	60	28 - 143
13C12-1234789-HpCDF	51	26 - 138
13C12-OCDF	41	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-280-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-280-SA6-SS-0.0-0.5

LLI Sample # SW 6343417
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 15:43

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1108 SDG#: DX111-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-280-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-280-SA6-SS-0.0-0.5

LLI Sample # SW 6343417
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 15:43

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1108 SDG#: DX111-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11206002	07/27/2011 00:39	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11206002	07/28/2011 14:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11206002	07/25/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11202162401A	07/21/2011 18:53	Scott W Freisher	1

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Analysis Report

Sample Description: SL-281-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-281-SA6-SS-0.0-0.5

LLI Sample # SW 6343418
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:30

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1109 SDG#: DX111-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-281-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-281-SA6-SS-0.0-0.5

LLI Sample # SW 6343418
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:30

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1109 SDG#: DX111-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.233	JBQ	0.0220	1.02	1
11031	12378-PeCDD	40321-76-4	3.08	JB	0.0982	5.08	1
11031	123478-HxCDD	39227-28-6	3.28	JB	0.107	5.08	1
11031	123678-HxCDD	57653-85-7	5.38	B	0.112	5.08	1
11031	123789-HxCDD	19408-74-3	2.28	JB	0.103	5.08	1
11031	1234678-HpCDD	35822-46-9	188	B	0.206	5.08	1
11031	OCDD	3268-87-9	2,510	B	0.186	10.2	1
11650	2378-TCDF-Conf	51207-31-9	4.01	C	0.110	1.02	1
11031	12378-PeCDF	57117-41-6	7.73	B	0.140	5.08	1
11031	23478-PeCDF	57117-31-4	3.33	JB	0.135	5.08	1
11031	123478-HxCDF	70648-26-9	4.20	JB	0.101	5.08	1
11031	123678-HxCDF	57117-44-9	1.35	JBQ	0.101	5.08	1
11031	123789-HxCDF	72918-21-9	0.487	JB	0.109	5.08	1
11031	234678-HxCDF	60851-34-5	1.61	JB	0.0940	5.08	1
11031	1234678-HpCDF	67562-39-4	21.0	B	0.0939	5.08	1
11031	1234789-HpCDF	55673-89-7	2.40	JB	0.128	5.08	1
11031	OCDF	39001-02-0	55.0	B	0.0718	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-2378-TCDF-Conf	81	24 - 169
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	52	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	45	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-281-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-281-SA6-SS-0.0-0.5

LLI Sample # SW 6343418
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:30

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1109 SDG#: DX111-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-281-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-281-SA6-SS-0.0-0.5

LLI Sample # SW 6343418
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 14:30

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1109 SDG#: DX111-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11206002	07/27/2011 01:36	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11206002	07/28/2011 15:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11206002	07/25/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11202162401A	07/21/2011 18:53	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-300-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-300-SA6-SS-0.0-0.5

LLI Sample # SW 6343419
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 15:05

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1110 SDG#: DX111-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-300-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-300-SA6-SS-0.0-0.5

LLI Sample # SW 6343419
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 15:05

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1110 SDG#: DX111-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.143	JB	0.0197	0.989	1
11031	12378-PeCDD	40321-76-4	0.430	JB	0.0481	4.95	1
11031	123478-HxCDD	39227-28-6	3.51	JB	0.0514	4.95	1
11031	123678-HxCDD	57653-85-7	1.02	JB	0.0529	4.95	1
11031	123789-HxCDD	19408-74-3	0.697	JB	0.0489	4.95	1
11031	1234678-HpCDD	35822-46-9	25.8	B	0.0668	4.95	1
11031	OCDD	3268-87-9	268	B	0.0384	9.89	1
11650	2378-TCDF-Conf	51207-31-9	0.976	JC	0.0809	0.989	1
11031	12378-PeCDF	57117-41-6	8.29	B	0.0790	4.95	1
11031	23478-PeCDF	57117-31-4	1.67	JB	0.0771	4.95	1
11031	123478-HxCDF	70648-26-9	2.24	JB	0.0544	4.95	1
11031	123678-HxCDF	57117-44-9	0.729	JB	0.0502	4.95	1
11031	123789-HxCDF	72918-21-9	0.262	JB	0.0574	4.95	1
11031	234678-HxCDF	60851-34-5	0.609	JB	0.0488	4.95	1
11031	1234678-HpCDF	67562-39-4	4.18	JB	0.0309	4.95	1
11031	1234789-HpCDF	55673-89-7	0.545	JB	0.0418	4.95	1
11031	OCDF	39001-02-0	8.18	JB	0.0300	9.89	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-2378-TCDF-Conf	70	24 - 169
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	67	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-300-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-300-SA6-SS-0.0-0.5

LLI Sample # SW 6343419
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 15:05

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1110 SDG#: DX111-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-300-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-300-SA6-SS-0.0-0.5

LLI Sample # SW 6343419
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/12/2011 15:05

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1110 SDG#: DX111-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11206002	07/27/2011 16:20	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11206002	07/28/2011 16:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11206002	07/25/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11202162401A	07/21/2011 18:53	Scott W Freisher	1

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Analysis Report

Sample Description: SL-030-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA6-SS-0.0-0.5

LLI Sample # SW 6343420
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 11:10

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1111 SDG#: DX111-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-030-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA6-SS-0.0-0.5

LLI Sample # SW 6343420
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 11:10

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1111 SDG#: DX111-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	1.59 B	0.0697	1.02	1
11031	12378-PeCDD	40321-76-4	4.32 JB	0.257	5.08	1
11031	123478-HxCDD	39227-28-6	16.2 B	0.253	5.08	1
11031	123678-HxCDD	57653-85-7	58.5 B	0.251	5.08	1
11031	123789-HxCDD	19408-74-3	26.2 B	0.237	5.08	1
11031	1234678-HpCDD	35822-46-9	1,650 B	0.463	5.08	1
11031	OCDD	3268-87-9	21,800 EB	0.229	10.2	1
11031	2378-TCDF	51207-31-9	4.41 C	0.376	1.02	1
11031	12378-PeCDF	57117-41-6	34.8 B	0.145	5.08	1
11031	23478-PeCDF	57117-31-4	10.0 B	0.139	5.08	1
11031	123478-HxCDF	70648-26-9	18.2 B	0.194	5.08	1
11031	123678-HxCDF	57117-44-9	10.5 B	0.175	5.08	1
11031	123789-HxCDF	72918-21-9	1.46 JB	0.201	5.08	1
11031	234678-HxCDF	60851-34-5	11.2 B	0.172	5.08	1
11031	1234678-HpCDF	67562-39-4	206 B	0.147	5.08	1
11031	1234789-HpCDF	55673-89-7	18.7 B	0.188	5.08	1
11031	OCDF	39001-02-0	599 B	0.101	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	64	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: SL-030-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA6-SS-0.0-0.5

LLI Sample # SW 6343420
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 11:10

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1111 SDG#: DX111-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	65	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-030-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA6-SS-0.0-0.5

LLI Sample # SW 6343420
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 11:10

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1111 SDG#: DX111-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11206002	07/27/2011 17:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11206002	07/25/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-035-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA6-SS-0.0-0.5

LLI Sample # SW 6343421
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 10:05

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1112 SDG#: DX111-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-035-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA6-SS-0.0-0.5

LLI Sample # SW 6343421
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 10:05

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1112 SDG#: DX111-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.347	JB	0.0198	1.01	1
11031	12378-PeCDD	40321-76-4	4.05	JB	0.0772	5.04	1
11031	123478-HxCDD	39227-28-6	2.69	JB	0.116	5.04	1
11031	123678-HxCDD	57653-85-7	18.2	B	0.117	5.04	1
11031	123789-HxCDD	19408-74-3	4.89	JB	0.114	5.04	1
11031	1234678-HpCDD	35822-46-9	431	B	0.296	5.04	1
11031	OCDD	3268-87-9	5,790	EB	0.121	10.1	1
11031	2378-TCDF	51207-31-9	0.693	J	0.0942	1.01	1
11031	12378-PeCDF	57117-41-6	1.65	JB	0.0836	5.04	1
11031	23478-PeCDF	57117-31-4	1.52	JB	0.0806	5.04	1
11031	123478-HxCDF	70648-26-9	3.49	JB	0.0720	5.04	1
11031	123678-HxCDF	57117-44-9	2.45	JB	0.0691	5.04	1
11031	123789-HxCDF	72918-21-9	0.544	JB	0.0759	5.04	1
11031	234678-HxCDF	60851-34-5	3.98	JB	0.0715	5.04	1
11031	1234678-HpCDF	67562-39-4	84.6	B	0.122	5.04	1
11031	1234789-HpCDF	55673-89-7	8.15	B	0.153	5.04	1
11031	OCDF	39001-02-0	247	B	0.0941	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	71	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-035-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA6-SS-0.0-0.5

LLI Sample # SW 6343421
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 10:05

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1112 SDG#: DX111-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-035-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA6-SS-0.0-0.5

LLI Sample # SW 6343421
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 10:05

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1112 SDG#: DX111-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11206002	07/27/2011 18:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11206002	07/25/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

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Analysis Report

Sample Description: SL-040-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA6-SS-0.0-0.5

LLI Sample # SW 6343422
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:45

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1113 SDG#: DX111-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-040-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA6-SS-0.0-0.5

LLI Sample # SW 6343422
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:45

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1113 SDG#: DX111-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0752	JB	0.0149	1.03	1
11031	12378-PeCDD	40321-76-4	0.300	JB	0.0398	5.17	1
11031	123478-HxCDD	39227-28-6	0.607	JB	0.0617	5.17	1
11031	123678-HxCDD	57653-85-7	2.02	JB	0.0647	5.17	1
11031	123789-HxCDD	19408-74-3	1.06	JB	0.0620	5.17	1
11031	1234678-HpCDD	35822-46-9	105	B	0.122	5.17	1
11031	OCDD	3268-87-9	987	B	0.0670	10.3	1
11650	2378-TCDF-Conf	51207-31-9	0.414	JC	0.0702	1.03	1
11031	12378-PeCDF	57117-41-6	4.92	JB	0.0679	5.17	1
11031	23478-PeCDF	57117-31-4	1.07	JB	0.0656	5.17	1
11031	123478-HxCDF	70648-26-9	1.73	JB	0.0571	5.17	1
11031	123678-HxCDF	57117-44-9	0.800	JB	0.0555	5.17	1
11031	123789-HxCDF	72918-21-9	0.279	JB	0.0620	5.17	1
11031	234678-HxCDF	60851-34-5	0.714	JB	0.0559	5.17	1
11031	1234678-HpCDF	67562-39-4	9.41	B	0.114	5.17	1
11031	1234789-HpCDF	55673-89-7	1.03	JB	0.149	5.17	1
11031	OCDF	39001-02-0	25.3	B	0.0535	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-2378-TCDF-Conf	68	24 - 169
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA6-SS-0.0-0.5

LLI Sample # SW 6343422
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:45

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1113 SDG#: DX111-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-040-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA6-SS-0.0-0.5

LLI Sample # SW 6343422
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:45

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1113 SDG#: DX111-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11206002	07/27/2011 19:10	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11206002	07/28/2011 18:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11206002	07/25/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11202162401A	07/21/2011 18:53	Scott W Freisher	1

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Analysis Report

Sample Description: SL-047-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA6-SS-0.0-0.5

LLI Sample # SW 6343423
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:53

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11-14 SDG#: DX111-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-047-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA6-SS-0.0-0.5

LLI Sample # SW 6343423
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:53

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11-14 SDG#: DX111-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0518	JQ	0.0355	0.995	1
11031	12378-PeCDD	40321-76-4	0.185	JB	0.0335	4.98	1
11031	123478-HxCDD	39227-28-6	0.270	JBQ	0.0514	4.98	1
11031	123678-HxCDD	57653-85-7	1.09	JB	0.0521	4.98	1
11031	123789-HxCDD	19408-74-3	1.08	JB	0.0541	4.98	1
11031	1234678-HpCDD	35822-46-9	18.2	B	0.0606	4.98	1
11031	OCDD	3268-87-9	170	B	0.0526	9.95	1
11031	2378-TCDF	51207-31-9	0.307	JBQ	0.0674	0.995	1
11031	12378-PeCDF	57117-41-6	0.420	JBQ	0.0334	4.98	1
11031	23478-PeCDF	57117-31-4	0.438	JB	0.0294	4.98	1
11031	123478-HxCDF	70648-26-9	0.422	JB	0.0357	4.98	1
11031	123678-HxCDF	57117-44-9	0.285	JB	0.0320	4.98	1
11031	123789-HxCDF	72918-21-9	0.112	JB	0.0384	4.98	1
11031	234678-HxCDF	60851-34-5	0.256	JB	0.0331	4.98	1
11031	1234678-HpCDF	67562-39-4	2.96	JB	0.0228	4.98	1
11031	1234789-HpCDF	55673-89-7	0.247	JB	0.0320	4.98	1
11031	OCDF	39001-02-0	8.79	JB	0.0358	9.95	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	99	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	79	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-047-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA6-SS-0.0-0.5

LLI Sample # SW 6343423
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:53

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11-14 SDG#: DX111-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-047-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA6-SS-0.0-0.5

LLI Sample # SW 6343423
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:53

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11-14 SDG#: DX111-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11210001	08/01/2011 16:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11210001	07/29/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-059-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA6-SS-0.0-0.5

LLI Sample # SW 6343424
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:23

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1115 SDG#: DX111-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.51	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-059-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA6-SS-0.0-0.5

LLI Sample # SW 6343424
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:23

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1115 SDG#: DX111-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0749 JBQ	0.0145	0.978	1
11031	12378-PeCDD	40321-76-4	0.165 JBQ	0.0260	4.89	1
11031	123478-HxCDD	39227-28-6	0.476 JB	0.0544	4.89	1
11031	123678-HxCDD	57653-85-7	1.50 JB	0.0575	4.89	1
11031	123789-HxCDD	19408-74-3	0.799 JBQ	0.0558	4.89	1
11031	1234678-HpCDD	35822-46-9	130 B	0.0897	4.89	1
11031	OCDD	3268-87-9	689 B	0.0581	9.78	1
11031	2378-TCDF	51207-31-9	0.249 JQ	0.0509	0.978	1
11031	12378-PeCDF	57117-41-6	1.52 JB	0.0405	4.89	1
11031	23478-PeCDF	57117-31-4	0.420 JB	0.0406	4.89	1
11031	123478-HxCDF	70648-26-9	1.41 JB	0.0494	4.89	1
11031	123678-HxCDF	57117-44-9	0.398 JB	0.0449	4.89	1
11031	123789-HxCDF	72918-21-9	0.0806 JBQ	0.0562	4.89	1
11031	234678-HxCDF	60851-34-5	0.368 JB	0.0456	4.89	1
11031	1234678-HpCDF	67562-39-4	9.49 B	0.0689	4.89	1
11031	1234789-HpCDF	55673-89-7	0.683 JBQ	0.102	4.89	1
11031	OCDF	39001-02-0	36.9 B	0.0520	9.78	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-059-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA6-SS-0.0-0.5

LLI Sample # SW 6343424
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:23

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1115 SDG#: DX111-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-059-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA6-SS-0.0-0.5

LLI Sample # SW 6343424
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:23

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1115 SDG#: DX111-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11206002	07/27/2011 21:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11206002	07/25/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11202162401A	07/21/2011 18:53	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-066-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA6-SS-0.0-0.5

LLI Sample # SW 6343425
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 14:43

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1116 SDG#: DX111-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-066-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA6-SS-0.0-0.5

LLI Sample # SW 6343425
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 14:43

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1116 SDG#: DX111-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.110	JBQ	0.0155	0.974	1
11031	12378-PeCDD	40321-76-4	0.996	JB	0.0428	4.87	1
11031	123478-HxCDD	39227-28-6	1.77	JB	0.0911	4.87	1
11031	123678-HxCDD	57653-85-7	17.4	B	0.0933	4.87	1
11031	123789-HxCDD	19408-74-3	4.33	JB	0.0894	4.87	1
11031	1234678-HpCDD	35822-46-9	693	B	0.273	4.87	1
11031	OCDD	3268-87-9	7,900	EB	0.177	9.74	1
11031	2378-TCDF	51207-31-9	0.0673	JQ	0.0332	0.974	1
11031	12378-PeCDF	57117-41-6	0.566	JBQ	0.0333	4.87	1
11031	23478-PeCDF	57117-31-4	0.255	JBQ	0.0352	4.87	1
11031	123478-HxCDF	70648-26-9	2.82	JB	0.0725	4.87	1
11031	123678-HxCDF	57117-44-9	3.10	JB	0.0613	4.87	1
11031	123789-HxCDF	72918-21-9	0.530	JB	0.0830	4.87	1
11031	234678-HxCDF	60851-34-5	5.04	B	0.0701	4.87	1
11031	1234678-HpCDF	67562-39-4	84.2	B	0.0801	4.87	1
11031	1234789-HpCDF	55673-89-7	12.3	B	0.158	4.87	1
11031	OCDF	39001-02-0	217	B	0.106	9.74	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	52	24 - 169
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	56	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	58	28 - 136
13C12-123789-HxCDF	55	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	54	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-066-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA6-SS-0.0-0.5

LLI Sample # SW 6343425
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 14:43

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1116 SDG#: DX111-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-066-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA6-SS-0.0-0.5

LLI Sample # SW 6343425
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 14:43

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1116 SDG#: DX111-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11206002	07/27/2011 21:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11206002	07/25/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

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Analysis Report

Sample Description: SL-067-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA6-SS-0.0-0.5

LLI Sample # SW 6343426
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 14:13

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1117 SDG#: DX111-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-067-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA6-SS-0.0-0.5

LLI Sample # SW 6343426
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 14:13

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1117 SDG#: DX111-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0984	JBQ	0.0161	0.988	1
11031	12378-PeCDD	40321-76-4	0.596	JBQ	0.0401	4.94	1
11031	123478-HxCDD	39227-28-6	1.40	JB	0.0724	4.94	1
11031	123678-HxCDD	57653-85-7	7.58	B	0.0745	4.94	1
11031	123789-HxCDD	19408-74-3	2.91	JB	0.0677	4.94	1
11031	1234678-HpCDD	35822-46-9	244	B	0.163	4.94	1
11031	OCDD	3268-87-9	2,350	B	0.0901	9.88	1
11031	2378-TCDF	51207-31-9	0.224	J	0.0510	0.988	1
11031	12378-PeCDF	57117-41-6	0.665	JB	0.0406	4.94	1
11031	23478-PeCDF	57117-31-4	0.543	JB	0.0412	4.94	1
11031	123478-HxCDF	70648-26-9	1.21	JB	0.0601	4.94	1
11031	123678-HxCDF	57117-44-9	1.28	JB	0.0535	4.94	1
11031	123789-HxCDF	72918-21-9	0.305	JB	0.0636	4.94	1
11031	234678-HxCDF	60851-34-5	1.72	JB	0.0524	4.94	1
11031	1234678-HpCDF	67562-39-4	27.6	B	0.0592	4.94	1
11031	1234789-HpCDF	55673-89-7	3.53	JB	0.0896	4.94	1
11031	OCDF	39001-02-0	64.2	B	0.0694	9.88	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-067-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA6-SS-0.0-0.5

LLI Sample # SW 6343426
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 14:13

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1117 SDG#: DX111-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-067-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA6-SS-0.0-0.5

LLI Sample # SW 6343426
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 14:13

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1117 SDG#: DX111-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11206002	07/27/2011 22:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11206002	07/25/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-278-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-278-SA6-SS-0.0-0.5

LLI Sample # SW 6343427
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:10

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1118 SDG#: DX111-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-278-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-278-SA6-SS-0.0-0.5

LLI Sample # SW 6343427
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:10

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1118 SDG#: DX111-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.616 JB	0.0838	1.01	1
11031	12378-PeCDD	40321-76-4	4.59 JB	0.297	5.03	1
11031	123478-HxCDD	39227-28-6	13.5 B	0.401	5.03	1
11031	123678-HxCDD	57653-85-7	206 B	0.411	5.03	1
11031	123789-HxCDD	19408-74-3	53.8 B	0.398	5.03	1
11031	1234678-HpCDD	35822-46-9	10,900 EB	1.13	5.03	1
11031	OCDD	3268-87-9	135,000 EB	0.784	10.1	1
11650	2378-TCDF-Conf	51207-31-9	1.59 C	0.113	1.01	1
11031	12378-PeCDF	57117-41-6	8.63 B	0.152	5.03	1
11031	23478-PeCDF	57117-31-4	4.94 JB	0.142	5.03	1
11031	123478-HxCDF	70648-26-9	28.9 B	0.334	5.03	1
11031	123678-HxCDF	57117-44-9	17.4 B	0.326	5.03	1
11031	123789-HxCDF	72918-21-9	5.63 B	0.408	5.03	1
11031	234678-HxCDF	60851-34-5	39.2 B	0.334	5.03	1
11031	1234678-HpCDF	67562-39-4	661 B	0.332	5.03	1
11031	1234789-HpCDF	55673-89-7	106 B	0.397	5.03	1
11031	OCDF	39001-02-0	1,470 B	0.318	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	89	25 - 164
13C12-2378-TCDF-Conf	86	24 - 169
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	47	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	41	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-278-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-278-SA6-SS-0.0-0.5

LLI Sample # SW 6343427
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:10

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1118 SDG#: DX111-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-278-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-278-SA6-SS-0.0-0.5

LLI Sample # SW 6343427
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:10

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1118 SDG#: DX111-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11206002	07/27/2011 23:53	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11206002	07/28/2011 23:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11206002	07/25/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-279-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-279-SA6-SS-0.0-0.5

LLI Sample # SW 6343428
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 07:38

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1119 SDG#: DX111-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-279-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-279-SA6-SS-0.0-0.5

LLI Sample # SW 6343428
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Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1119 SDG#: DX111-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0541	JBQ	0.0166	1.01	1
11031	12378-PeCDD	40321-76-4	0.305	JBQ	0.0369	5.03	1
11031	123478-HxCDD	39227-28-6	0.642	JB	0.0720	5.03	1
11031	123678-HxCDD	57653-85-7	2.05	JB	0.0742	5.03	1
11031	123789-HxCDD	19408-74-3	0.920	JB	0.0693	5.03	1
11031	1234678-HpCDD	35822-46-9	69.5	B	0.159	5.03	1
11031	OCDD	3268-87-9	824	B	0.115	10.1	1
11031	2378-TCDF	51207-31-9	0.582	J	0.140	1.01	1
11031	12378-PeCDF	57117-41-6	2.88	JB	0.0616	5.03	1
11031	23478-PeCDF	57117-31-4	0.561	JB	0.0630	5.03	1
11031	123478-HxCDF	70648-26-9	1.02	JB	0.0634	5.03	1
11031	123678-HxCDF	57117-44-9	0.520	JB	0.0579	5.03	1
11031	123789-HxCDF	72918-21-9	0.208	JBQ	0.0764	5.03	1
11031	234678-HxCDF	60851-34-5	0.569	JB	0.0630	5.03	1
11031	1234678-HpCDF	67562-39-4	7.92	B	0.0876	5.03	1
11031	1234789-HpCDF	55673-89-7	1.01	JBQ	0.138	5.03	1
11031	OCDF	39001-02-0	20.8	B	0.176	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	48	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-279-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-279-SA6-SS-0.0-0.5

LLI Sample # SW 6343428
LLI Group # 1256193
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 07:38

Submitted: 07/14/2011 09:10
Reported: 08/15/2011 09:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1119 SDG#: DX111-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-279-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-279-SA6-SS-0.0-0.5

LLI Sample # SW 6343428
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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 07:38

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1119 SDG#: DX111-19*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11206002	07/28/2011 00:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11206002	07/25/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11202162401A	07/21/2011 18:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256193
Reported: 08/15/11 at 09:22 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11202162401A	Sample number(s): 6343417-6343419,6343422,6343424,6343428								
Moisture Content by 160.3					100		80-120		
Batch number: 11214162401A	Sample number(s): 6343420-6343421,6343423,6343425-6343427								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11206002	Sample number(s): 6343417-6343422,6343424-6343428								
2378-TCDD	0.0186 J	0.00990	1.00	ng/kg	77		67-158		
12378-PeCDD	0.0147 J	0.00960	5.00	ng/kg	84		70-142		
123478-HxCDD	0.0136 J	0.0107	5.00	ng/kg	83		70-164		
123678-HxCDD	0.0239 J	0.0110	5.00	ng/kg	84		76-134		
123789-HxCDD	0.0359 J	0.0102	5.00	ng/kg	84		64-162		
1234678-HpCDD	0.481 J	0.0187	5.00	ng/kg	85		70-140		
OCDD	1.94 J	0.0177	10.0	ng/kg	85		78-144		
2378-TCDF	0.00880 U	0.00880	1.00	ng/kg	87		75-158		
2378-TCDF-Conf	0.0263 J	0.0160	1.00	ng/kg	87		75-158		
12378-PeCDF	0.0222 J	0.00590	5.00	ng/kg	84		80-134		
23478-PeCDF	0.0584 J	0.00610	5.00	ng/kg	84		68-160		
123478-HxCDF	0.0540 J	0.0105	5.00	ng/kg	86		72-134		
123678-HxCDF	0.0336 J	0.00900	5.00	ng/kg	86		84-130		
123789-HxCDF	0.0460 J	0.0105	5.00	ng/kg	86		78-130		
234678-HxCDF	0.0540 J	0.00910	5.00	ng/kg	86		70-156		
1234678-HpCDF	0.220 J	0.00800	5.00	ng/kg	85		82-122		
1234789-HpCDF	0.0514 J	0.0126	5.00	ng/kg	86		78-138		
OCDF	0.225 J	0.0175	10.0	ng/kg	88		63-170		
Batch number: 11210001	Sample number(s): 6343423								
2378-TCDD	0.0381 U	0.0381	1.00	ng/kg	92		67-158		
12378-PeCDD	0.0724 J	0.0313	5.00	ng/kg	97		70-142		
123478-HxCDD	0.0831 J	0.0268	5.00	ng/kg	94		70-164		
123678-HxCDD	0.0751 J	0.0281	5.00	ng/kg	90		76-134		
123789-HxCDD	0.0786 J	0.0269	5.00	ng/kg	91		64-162		
1234678-HpCDD	1.10 J	0.0399	5.00	ng/kg	91		70-140		
OCDD	6.35 J	0.0304	10.0	ng/kg	90		78-144		
2378-TCDF	0.0475 J	0.0354	1.00	ng/kg	93		75-158		
12378-PeCDF	0.0473 J	0.0166	5.00	ng/kg	92		80-134		
23478-PeCDF	0.0459 J	0.0151	5.00	ng/kg	88		68-160		
123478-HxCDF	0.0448 J	0.0206	5.00	ng/kg	85		72-134		
123678-HxCDF	0.0341 J	0.0199	5.00	ng/kg	86		84-130		
123789-HxCDF	0.0484 J	0.0127	5.00	ng/kg	86		78-130		
234678-HxCDF	0.0534 J	0.0116	5.00	ng/kg	87		70-156		
1234678-HpCDF	0.0960 J	0.0146	5.00	ng/kg	85		82-122		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256193
Reported: 08/15/11 at 09:22 AM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
1234789-HpCDF	0.0192	J	0.0142	5.00	ng/kg	87		78-138		
OCDF	0.174	J	0.0351	10.0	ng/kg	85		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11202162401A	Sample number(s): 6343417-6343419,6343422,6343424,6343428					BKG: P343408			
Moisture Content by 160.3						10.5	12.2	15	20
Batch number: 11214162401A	Sample number(s): 6343420-6343421,6343423,6343425-6343427					BKG: P345435			
Moisture Content by 160.3						0.50 U	0.50 U	0 (1)	20
Batch number: 11210001	Sample number(s): 6343423		UNSPK: P351934						
2378-TCDD	91	79	67-158	11	25				
12378-PeCDD	93	80	70-142	12	25				
123478-HxCDD	91	81	70-164	9	25				
123678-HxCDD	88	78	76-134	8	25				
123789-HxCDD	89	76	64-162	12	25				
1234678-HpCDD	92	80	70-140	9	25				
OCDD	119	89	78-144	11	25				
2378-TCDF	84	68*	75-158	18	25				
12378-PeCDF	88	74*	80-134	14	25				
23478-PeCDF	87	71	68-160	17	25				
123478-HxCDF	85	75	72-134	10	25				
123678-HxCDF	85	76*	84-130	9	25				
123789-HxCDF	84	76*	78-130	8	25				
234678-HxCDF	87	77	70-156	9	25				
1234678-HpCDF	86	77*	82-122	8	25				
1234789-HpCDF	87	78	78-138	7	25				
OCDF	86	76	63-170	9	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11206002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6343417	70	56	60	62	63	61
6343418	86	65	71	72	75	78
6343419	72	63	65	69	68	69
6343420	70	64	63	65	64	67
6343421	76	68	66	69	69	73
6343422	71	63	64	65	66	67
6343424	72	66	65	71	67	65
6343425	66	56	55	64	58	55

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256193
Reported: 08/15/11 at 09:22 AM

Surrogate Quality Control

6343426	73	63	63	69	66	67
6343427	89	76	80	79	79	75
6343428	77	67	68	73	71	65
Blank	77	64	63	71	71	73
OPR	62	51	55	63	60	56
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6343417	60	51	41	66	72	69
6343418	65	60	45	75	83	81
6343419	77	68	67	73	77	75
6343420	71	66	65	73	70	70
6343421	73	73	71	78	76	76
6343422	69	66	61	71	72	72
6343424	82	66	64	77	77	75
6343425	82	54	54	70	71	71
6343426	81	66	66	74	77	74
6343427	70	64	41	85	87	87
6343428	77	59	48	78	79	79
Blank	85	65	59	77	83	81
OPR	77	53	49	62	72	72
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6343417	71	63	50	69	58	69
6343418	84	71	52	81	67	81
6343419	78	82	79	70	66	70
6343420	72	75	76	61	64	
6343421	78	82	81	66	69	
6343422	73	75	69	68	64	68
6343424	77	82	82	61	68	
6343425	72	77	78	52	63	
6343426	78	82	82	61	68	
6343427	88	73	47	86	74	86
6343428	81	75	59	66	71	
Blank	84	85	79	63	69	69
OPR	72	73	68	50	56	50
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11210001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6343423	72	82	70	76	74	73
Blank	72	82	46	46	78	82
MS	81	76	63	65	72	73
MSD	79	59	56	57	57	67
OPR	71	82	64	71	73	74
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256193
Reported: 08/15/11 at 09:22 AM

Surrogate Quality Control

6343423	90	77	79	85	83	82
Blank	66	80	84	83	80	82
MS	73	72	74	79	76	78
MSD	62	59	53	71	77	78
OPR	87	74	75	83	81	85
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6343423	82	92	99	71	84	
Blank	82	94	101	71	85	67
MS	79	85	88	80	80	80
MSD	76	80	72	65	60	65
OPR	82	90	93	69	84	69
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
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acct#13013 Cp#1256193 sample#6343417-28

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (Surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-280-SA6-SS-0.0-0.5	07.12.11	1543	SOIL	NONE	1-SS Sleeve			X	X																				
SL-280-SA6-SS-0.0-0.5	07.12.11	1543	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X		X	X			X	X	X	
SL-281-SA6-SS-0.0-0.5	07.12.11	1430	SOIL	NONE	1-SS Sleeve			X	X																				
SL-281-SA6-SS-0.0-0.5	07.12.11	1430	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X		X	X			X	X	X	
SL-300-SA6-SS-0.0-0.5	07.12.11	1505	SOIL	NONE	1-SS Sleeve			X	X																				
SL-300-SA6-SS-0.0-0.5	07.12.11	1505	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X		X	X			X	X	X	
SL-030-SA6-SS-0.0-0.5	07.13.11	1110	SOIL	NONE	1-SS Sleeve			X	X																				
SL-030-SA6-SS-0.0-0.5	07.13.11	1110	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X		X	X			X	X	X	
SL-035-SA6-SS-0.0-0.5	07.13.11	1005	SOIL	NONE	1-SS Sleeve			X	X																				
SL-035-SA6-SS-0.0-0.5	07.13.11	1005	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X	X	X	X	X	X	X	X	X	
SL-040-SA6-SS-0.0-0.5	07.13.11	0945	SOIL	NONE	1-SS Sleeve			X	X																				
SL-040-SA6-SS-0.0-0.5	07.13.11	0945	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-047-SA6-SS-0.0-0.5	07.13.11	1353	SOIL	NONE	1-SS Sleeve			X	X																				
SL-047-SA6-SS-0.0-0.5	07.13.11	1353	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X	X						X	X	
SL-059-SA6-SS-0.0-0.5	07.13.11	1323	SOIL	NONE	1-SS Sleeve			X	X																				
SL-059-SA6-SS-0.0-0.5	07.13.11	1323	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X	X	X	X	X	X	X	X	X	
SL-066-SA6-SS-0.0-0.5	07.13.11	1443	SOIL	NONE	1-SS Sleeve			X	X																				
SL-066-SA6-SS-0.0-0.5	07.13.11	1443	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X				X						X	X	X	
SL-067-SA6-SS-0.0-0.5	07.13.11	1413	SOIL	NONE	1-SS Sleeve			X	X																				
SL-067-SA6-SS-0.0-0.5	07.13.11	1413	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X	X	X	X	X	X	X	X	X	
SL-278-SA6-SS-0.0-0.5	07.13.11	0910	SOIL	NONE	1-SS Sleeve			X	X																				
SL-278-SA6-SS-0.0-0.5	07.13.11	0910	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X	X	X	X	X	X	X	X	X	
SL-278-SA6-SS-0.0-0.5	07.13.11	0910	SOIL	NONE	5- Encores												X	X	X										PID=10ppm so encores collected
SL-279-SA6-SS-0.0-0.5	07.13.11	0738	SOIL	NONE	1-SS Sleeve			X	X																				
SL-279-SA6-SS-0.0-0.5	07.13.11	0738	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X						X	X	X	

Relinquished by: (Signature) — Date/Time: 07/13/2011 / 1600 — Received for Laboratory by: (Signature)

Received by: (Signature) — Date/Time: 7/14/11 @ 8:30 — Airbill No.(s): 8754 3340 5315, 5326,5337,5750,5760

Primary, alcohols, glycols, terphenyls, TPH only

Laboratory:

Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 02, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/14/2011
Group Number: 1256194
SDG: DX112
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-072-SA6-SB-4.0-5.0 Soil	6343429
SL-072-SA6-SB-9.0-10.0 Soil	6343430
SL-116-SA6-SB-2.5-3.5 Soil	6343431
SL-118-SA6-SB-4.0-5.0 Soil	6343432
SL-118-SA6-SB-10.5-11.5 Soil	6343433
SL-083-SA6-SB-4.0-5.0 Soil	6343434
SL-083-SA6-SB-9.0-10.0 Soil	6343435
EB-SA6-SB-071311 Water	6343436

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-072-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA6-SB-4.0-5.0

LLI Sample # SW 6343429
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 08:25

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1201 SDG#: DX112-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-072-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA6-SB-4.0-5.0

LLI Sample # SW 6343429
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 08:25

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1201 SDG#: DX112-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0585	U	0.0585	1.11	1
11031	12378-PeCDD	40321-76-4	0.0347	U	0.0347	5.56	1
11031	123478-HxCDD	39227-28-6	0.0304	U	0.0304	5.56	1
11031	123678-HxCDD	57653-85-7	0.194	JBQ	0.0315	5.56	1
11031	123789-HxCDD	19408-74-3	0.103	JBQ	0.0314	5.56	1
11031	1234678-HpCDD	35822-46-9	4.27	JB	0.0662	5.56	1
11031	OCDD	3268-87-9	46.1	B	0.0310	11.1	1
11031	2378-TCDF	51207-31-9	0.0456	U	0.0456	1.11	1
11031	12378-PeCDF	57117-41-6	0.0233	U	0.0233	5.56	1
11031	23478-PeCDF	57117-31-4	0.0759	JBQ	0.0214	5.56	1
11031	123478-HxCDF	70648-26-9	0.0446	JB	0.0329	5.56	1
11031	123678-HxCDF	57117-44-9	0.0351	JBQ	0.0301	5.56	1
11031	123789-HxCDF	72918-21-9	0.0343	U	0.0343	5.56	1
11031	234678-HxCDF	60851-34-5	0.0549	JB	0.0304	5.56	1
11031	1234678-HpCDF	67562-39-4	2.22	JB	0.0266	5.56	1
11031	1234789-HpCDF	55673-89-7	0.142	JBQ	0.0386	5.56	1
11031	OCDF	39001-02-0	9.54	JB	0.0399	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	105	23 - 140
13C12-OCDD	122	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	93	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-072-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA6-SB-4.0-5.0

LLI Sample # SW 6343429
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 08:25

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1201 SDG#: DX112-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-072-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA6-SB-4.0-5.0

LLI Sample # SW 6343429
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 08:25

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1201 SDG#: DX112-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11207001	07/29/2011 08:19	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11207001	07/26/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11202162401A	07/21/2011 18:53	Scott W Freisher	1

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Analysis Report

Sample Description: SL-072-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA6-SB-9.0-10.0

LLI Sample # SW 6343430
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 08:35

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1202 SDG#: DX112-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-072-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA6-SB-9.0-10.0

LLI Sample # SW 6343430
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 08:35

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1202 SDG#: DX112-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0610	U	0.0610	1.14	1
11031	12378-PeCDD	40321-76-4	0.0463	JQ	0.0421	5.69	1
11031	123478-HxCDD	39227-28-6	0.0260	U	0.0260	5.69	1
11031	123678-HxCDD	57653-85-7	0.0261	U	0.0261	5.69	1
11031	123789-HxCDD	19408-74-3	0.0455	JB	0.0254	5.69	1
11031	1234678-HpCDD	35822-46-9	0.473	JB	0.0359	5.69	1
11031	OCDD	3268-87-9	1.39	JB	0.0362	11.4	1
11031	2378-TCDF	51207-31-9	0.0491	U	0.0491	1.14	1
11031	12378-PeCDF	57117-41-6	0.0320	JBQ	0.0255	5.69	1
11031	23478-PeCDF	57117-31-4	0.0450	JBQ	0.0231	5.69	1
11031	123478-HxCDF	70648-26-9	0.0178	U	0.0178	5.69	1
11031	123678-HxCDF	57117-44-9	0.0166	JBQ	0.0161	5.69	1
11031	123789-HxCDF	72918-21-9	0.0192	U	0.0192	5.69	1
11031	234678-HxCDF	60851-34-5	0.0228	JBQ	0.0162	5.69	1
11031	1234678-HpCDF	67562-39-4	0.0757	JBQ	0.0124	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0165	U	0.0165	5.69	1
11031	OCDF	39001-02-0	0.106	JB	0.0450	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	105	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	75	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-072-SA6-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA6-SB-9.0-10.0

LLI Sample # SW 6343430
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 08:35

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1202 SDG#: DX112-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-072-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA6-SB-9.0-10.0

LLI Sample # SW 6343430
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 08:35

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1202 SDG#: DX112-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11207001	07/29/2011 09:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11207001	07/26/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11202162401A	07/21/2011 18:53	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-116-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA6-SB-2.5-3.5

LLI Sample # SW 6343431
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:35

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1203 SDG#: DX112-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-116-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA6-SB-2.5-3.5

LLI Sample # SW 6343431
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:35

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1203 SDG#: DX112-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0435 U	0.0435	1.07	1
11031	12378-PeCDD	40321-76-4	0.0439 JQ	0.0360	5.33	1
11031	123478-HxCDD	39227-28-6	0.0298 JQ	0.0204	5.33	1
11031	123678-HxCDD	57653-85-7	0.0213 JBQ	0.0201	5.33	1
11031	123789-HxCDD	19408-74-3	0.0551 JBQ	0.0198	5.33	1
11031	1234678-HpCDD	35822-46-9	0.403 JB	0.0289	5.33	1
11031	OCDD	3268-87-9	0.949 JB	0.0272	10.7	1
11031	2378-TCDF	51207-31-9	0.0391 U	0.0391	1.07	1
11031	12378-PeCDF	57117-41-6	0.0196 U	0.0196	5.33	1
11031	23478-PeCDF	57117-31-4	0.0636 JBQ	0.0177	5.33	1
11031	123478-HxCDF	70648-26-9	0.0154 U	0.0154	5.33	1
11031	123678-HxCDF	57117-44-9	0.0202 JBQ	0.0131	5.33	1
11031	123789-HxCDF	72918-21-9	0.0165 U	0.0165	5.33	1
11031	234678-HxCDF	60851-34-5	0.0138 U	0.0138	5.33	1
11031	1234678-HpCDF	67562-39-4	0.0489 JB	0.0102	5.33	1
11031	1234789-HpCDF	55673-89-7	0.0180 U	0.0180	5.33	1
11031	OCDF	39001-02-0	0.141 JBQ	0.0348	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	104	23 - 140
13C12-OCDD	112	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	75	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-116-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA6-SB-2.5-3.5

LLI Sample # SW 6343431
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:35

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1203 SDG#: DX112-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-116-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA6-SB-2.5-3.5

LLI Sample # SW 6343431
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 09:35

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1203 SDG#: DX112-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11207001	07/29/2011 10:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11207001	07/26/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11202162401A	07/21/2011 18:53	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-118-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA6-SB-4.0-5.0

LLI Sample # SW 6343432
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:55

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1204 SDG#: DX112-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-118-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA6-SB-4.0-5.0

LLI Sample # SW 6343432
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:55

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1204 SDG#: DX112-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0418	U	0.0418	1.11	1
11031	12378-PeCDD	40321-76-4	0.0344	U	0.0344	5.57	1
11031	123478-HxCDD	39227-28-6	0.0440	U	0.0440	5.57	1
11031	123678-HxCDD	57653-85-7	0.277	JB	0.0450	5.57	1
11031	123789-HxCDD	19408-74-3	0.139	JBQ	0.0425	5.57	1
11031	1234678-HpCDD	35822-46-9	25.7	B	0.0977	5.57	1
11031	OCDD	3268-87-9	364	B	0.0702	11.1	1
11031	2378-TCDF	51207-31-9	0.0621	U	0.0621	1.11	1
11031	12378-PeCDF	57117-41-6	0.266	JBQ	0.0343	5.57	1
11031	23478-PeCDF	57117-31-4	0.205	JB	0.0314	5.57	1
11031	123478-HxCDF	70648-26-9	0.0762	JBQ	0.0344	5.57	1
11031	123678-HxCDF	57117-44-9	0.0667	JBQ	0.0317	5.57	1
11031	123789-HxCDF	72918-21-9	0.0391	U	0.0391	5.57	1
11031	234678-HxCDF	60851-34-5	0.0400	JBQ	0.0331	5.57	1
11031	1234678-HpCDF	67562-39-4	0.999	JB	0.0373	5.57	1
11031	1234789-HpCDF	55673-89-7	0.140	JB	0.0550	5.57	1
11031	OCDF	39001-02-0	2.93	JB	0.0447	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	95	23 - 140
13C12-OCDD	108	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	77	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-118-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA6-SB-4.0-5.0

LLI Sample # SW 6343432
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:55

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1204 SDG#: DX112-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-118-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA6-SB-4.0-5.0

LLI Sample # SW 6343432
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:55

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1204 SDG#: DX112-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11207001	07/29/2011 11:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11207001	07/26/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11202162401A	07/21/2011 18:53	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-118-SA6-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA6-SB-10.5-11.5

LLI Sample # SW 6343433
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:45

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1205 SDG#: DX112-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-118-SA6-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA6-SB-10.5-11.5

LLI Sample # SW 6343433
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:45

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1205 SDG#: DX112-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0413 U	0.0413	1.03	1
11031	12378-PeCDD	40321-76-4	0.0275 U	0.0275	5.17	1
11031	123478-HxCDD	39227-28-6	0.0203 U	0.0203	5.17	1
11031	123678-HxCDD	57653-85-7	0.0497 JB	0.0201	5.17	1
11031	123789-HxCDD	19408-74-3	0.0350 JBQ	0.0205	5.17	1
11031	1234678-HpCDD	35822-46-9	0.871 JB	0.0356	5.17	1
11031	OCDD	3268-87-9	3.27 JB	0.0281	10.3	1
11031	2378-TCDF	51207-31-9	0.0367 U	0.0367	1.03	1
11031	12378-PeCDF	57117-41-6	0.0237 U	0.0237	5.17	1
11031	23478-PeCDF	57117-31-4	0.133 JBQ	0.0213	5.17	1
11031	123478-HxCDF	70648-26-9	0.0251 U	0.0251	5.17	1
11031	123678-HxCDF	57117-44-9	0.0336 JB	0.0223	5.17	1
11031	123789-HxCDF	72918-21-9	0.0284 U	0.0284	5.17	1
11031	234678-HxCDF	60851-34-5	0.0423 JBQ	0.0235	5.17	1
11031	1234678-HpCDF	67562-39-4	0.222 JBQ	0.0172	5.17	1
11031	1234789-HpCDF	55673-89-7	0.0261 U	0.0261	5.17	1
11031	OCDF	39001-02-0	0.321 JBQ	0.0362	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	96	17 - 157
13C12-2378-TCDF	57	24 - 169
13C12-12378-PeCDF	59	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	57	28 - 136
13C12-123789-HxCDF	55	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-118-SA6-SB-10.5-11.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA6-SB-10.5-11.5

LLI Sample # SW 6343433
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:45

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1205 SDG#: DX112-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-118-SA6-SB-10.5-11.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA6-SB-10.5-11.5

LLI Sample # SW 6343433
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 13:45

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1205 SDG#: DX112-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11207001	07/29/2011 12:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11207001	07/26/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11202162401A	07/21/2011 18:53	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-083-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA6-SB-4.0-5.0

LLI Sample # SW 6343434
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:05

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1206 SDG#: DX112-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-083-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA6-SB-4.0-5.0

LLI Sample # SW 6343434
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:05

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1206 SDG#: DX112-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.260	J	0.0288	1.02	1
11031	12378-PeCDD	40321-76-4	2.05	J	0.0697	5.12	1
11031	123478-HxCDD	39227-28-6	3.64	J	0.100	5.12	1
11031	123678-HxCDD	57653-85-7	9.31	B	0.102	5.12	1
11031	123789-HxCDD	19408-74-3	3.17	JB	0.0965	5.12	1
11031	1234678-HpCDD	35822-46-9	539	B	0.193	5.12	1
11031	OCDD	3268-87-9	5,000	EB	0.226	10.2	1
11031	2378-TCDF	51207-31-9	0.468	J	0.0522	1.02	1
11031	12378-PeCDF	57117-41-6	0.328	JB	0.0352	5.12	1
11031	23478-PeCDF	57117-31-4	0.614	JB	0.0308	5.12	1
11031	123478-HxCDF	70648-26-9	1.29	JB	0.0905	5.12	1
11031	123678-HxCDF	57117-44-9	0.770	JB	0.0847	5.12	1
11031	123789-HxCDF	72918-21-9	0.258	JQ	0.0686	5.12	1
11031	234678-HxCDF	60851-34-5	1.39	JB	0.0600	5.12	1
11031	1234678-HpCDF	67562-39-4	24.4	B	0.101	5.12	1
11031	1234789-HpCDF	55673-89-7	2.50	JB	0.0988	5.12	1
11031	OCDF	39001-02-0	67.9	B	0.0874	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	59	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	46	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	45	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	41	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-083-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA6-SB-4.0-5.0

LLI Sample # SW 6343434
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:05

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1206 SDG#: DX112-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-083-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA6-SB-4.0-5.0

LLI Sample # SW 6343434
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:05

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1206 SDG#: DX112-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11207001	07/29/2011 13:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11207001	07/26/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11202162401A	07/21/2011 18:53	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-083-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA6-SB-9.0-10.0

LLI Sample # SW 6343435
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:15

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1207 SDG#: DX112-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-083-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA6-SB-9.0-10.0

LLI Sample # SW 6343435
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:15

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1207 SDG#: DX112-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.683 J	0.0367	1.09	1
11031	12378-PeCDD	40321-76-4	8.16	0.0942	5.45	1
11031	123478-HxCDD	39227-28-6	4.28 J	0.158	5.45	1
11031	123678-HxCDD	57653-85-7	19.7 B	0.158	5.45	1
11031	123789-HxCDD	19408-74-3	6.39 B	0.153	5.45	1
11031	1234678-HpCDD	35822-46-9	1,060 B	0.245	5.45	1
11031	OCDD	3268-87-9	13,000 EB	0.288	10.9	1
11031	2378-TCDF	51207-31-9	0.846 J	0.111	1.09	1
11031	12378-PeCDF	57117-41-6	1.32 JB	0.0611	5.45	1
11031	23478-PeCDF	57117-31-4	1.20 JB	0.0544	5.45	1
11031	123478-HxCDF	70648-26-9	2.13 JB	0.0911	5.45	1
11031	123678-HxCDF	57117-44-9	1.66 JB	0.0907	5.45	1
11031	123789-HxCDF	72918-21-9	0.530 J	0.0917	5.45	1
11031	234678-HxCDF	60851-34-5	3.10 JB	0.0867	5.45	1
11031	1234678-HpCDF	67562-39-4	66.6 B	0.0939	5.45	1
11031	1234789-HpCDF	55673-89-7	6.14 B	0.115	5.45	1
11031	OCDF	39001-02-0	194 B	0.0859	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	67	29 - 147

*=This limit was used in the evaluation of the final result

Sample Description: SL-083-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA6-SB-9.0-10.0

LLI Sample # SW 6343435
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:15

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1207 SDG#: DX112-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: SL-083-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA6-SB-9.0-10.0

LLI Sample # SW 6343435
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:15

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1207 SDG#: DX112-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11207001	07/29/2011 13:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11207001	07/26/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11202162401A	07/21/2011 18:53	Scott W Freisher	1

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Analysis Report

Sample Description: EB-SA6-SB-071311 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-071311

LLI Sample # WW 6343436
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 12:30

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X1208 SDG#: DX112-08EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.315	U	0.315	1.98	1
10915	12378-PeCDD	40321-76-4	0.263	U	0.263	9.90	1
10915	123478-HxCDD	39227-28-6	0.270	JBQ	0.216	9.90	1
10915	123678-HxCDD	57653-85-7	0.367	JBQ	0.217	9.90	1
10915	123789-HxCDD	19408-74-3	0.520	JBQ	0.204	9.90	1
10915	1234678-HpCDD	35822-46-9	5.30	JB	0.354	9.90	1
10915	OCDD	3268-87-9	10.3	JB	0.336	19.8	1
10915	2378-TCDF	51207-31-9	0.213	U	0.213	1.98	1
10915	12378-PeCDF	57117-41-6	0.436	JBQ	0.119	9.90	1
10915	23478-PeCDF	57117-31-4	0.599	JBQ	0.103	9.90	1
10915	123478-HxCDF	70648-26-9	0.309	JBQ	0.115	9.90	1
10915	123678-HxCDF	57117-44-9	0.158	JBQ	0.115	9.90	1
10915	123789-HxCDF	72918-21-9	0.331	JBQ	0.131	9.90	1
10915	234678-HxCDF	60851-34-5	0.468	JBQ	0.110	9.90	1
10915	1234678-HpCDF	67562-39-4	0.693	JB	0.0993	9.90	1
10915	1234789-HpCDF	55673-89-7	0.237	JBQ	0.126	9.90	1
10915	OCDF	39001-02-0	0.380	U	0.380	19.8	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	55	25 - 164
13C12-12378-PeCDD	61	25 - 181
13C12-123478-HxCDD	54	32 - 141
13C12-123678-HxCDD	55	28 - 130
13C12-123789-HxCDD	54	28 - 130
13C12-1234678-HpCDD	55	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	62	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	55	26 - 123
13C12-234678-HxCDF	55	28 - 136
13C12-123789-HxCDF	55	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	48	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **EB-SA6-SB-071311 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-071311

LLI Sample # WW 6343436
LLI Group # 1256194
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 12:30

Submitted: 07/14/2011 09:10
Reported: 08/02/2011 23:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1208 SDG#: DX112-08EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11199002	07/22/2011 05:59	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11199002	07/19/2011 11:10	Ginelle L Haines	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256194
Reported: 08/02/11 at 11:26 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11202162401A	Sample number(s): 6343429-6343435									
Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11199002	Sample number(s): 6343436									
2378-TCDD	0.300	U	0.300	2.00	pg/l	105		67-158		
12378-PeCDD	0.295	J	0.278	10.0	pg/l	103		70-142		
123478-HxCDD	0.272	J	0.193	10.0	pg/l	102		70-164		
123678-HxCDD	0.625	J	0.192	10.0	pg/l	101		76-134		
123789-HxCDD	0.898	J	0.198	10.0	pg/l	102		64-162		
1234678-HpCDD	4.77	J	0.334	10.0	pg/l	100		70-140		
OCDD	9.97	J	0.300	20.0	pg/l	102		78-144		
2378-TCDF	0.232	U	0.232	2.00	pg/l	99		75-158		
12378-PeCDF	0.321	J	0.135	10.0	pg/l	103		80-134		
23478-PeCDF	0.804	J	0.130	10.0	pg/l	100		68-160		
123478-HxCDF	0.447	J	0.134	10.0	pg/l	98		72-134		
123678-HxCDF	0.360	J	0.136	10.0	pg/l	96		84-130		
123789-HxCDF	0.596	J	0.149	10.0	pg/l	97		78-130		
234678-HxCDF	0.382	J	0.129	10.0	pg/l	97		70-156		
1234678-HpCDF	1.11	J	0.0973	10.0	pg/l	99		82-122		
1234789-HpCDF	0.617	J	0.122	10.0	pg/l	99		78-138		
OCDF	1.09	J	0.336	20.0	pg/l	100		63-170		
Batch number: 11207001	Sample number(s): 6343429-6343435									
2378-TCDD	0.0511	U	0.0511	1.00	ng/kg	91		67-158		
12378-PeCDD	0.0399	U	0.0399	5.00	ng/kg	92		70-142		
123478-HxCDD	0.0233	U	0.0233	5.00	ng/kg	91		70-164		
123678-HxCDD	0.0231	J	0.0221	5.00	ng/kg	88		76-134		
123789-HxCDD	0.0584	J	0.0215	5.00	ng/kg	89		64-162		
1234678-HpCDD	0.365	J	0.0356	5.00	ng/kg	89		70-140		
OCDD	0.801	J	0.0350	10.0	ng/kg	86		78-144		
2378-TCDF	0.0441	U	0.0441	1.00	ng/kg	93		75-158		
12378-PeCDF	0.0259	J	0.0209	5.00	ng/kg	87		80-134		
23478-PeCDF	0.0391	J	0.0196	5.00	ng/kg	87		68-160		
123478-HxCDF	0.0221	J	0.0166	5.00	ng/kg	85		72-134		
123678-HxCDF	0.0227	J	0.0143	5.00	ng/kg	87		84-130		
123789-HxCDF	0.0197	U	0.0197	5.00	ng/kg	84		78-130		
234678-HxCDF	0.0195	J	0.0153	5.00	ng/kg	85		70-156		
1234678-HpCDF	0.0647	J	0.0104	5.00	ng/kg	84		82-122		
1234789-HpCDF	0.0217	J	0.0183	5.00	ng/kg	87		78-138		
OCDF	0.114	J	0.0398	10.0	ng/kg	85		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256194
Reported: 08/02/11 at 11:26 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11202162401A	Sample number(s): 6343429-6343435					BKG: P343408			
Moisture Content by 160.3						10.5	12.2	15	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11199002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6343436	55	66	53	55	55	55
Blank	68	74	66	67	70	70
OPR	70	85	72	74	74	73
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6343436	53	52	48	61	54	55
Blank	67	68	65	68	67	71
OPR	74	75	72	77	71	70
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6343436	54	55	51	65	62
Blank	68	70	66	76	78
OPR	71	76	73	79	82
Limits:	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11207001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6343429	70	72	65	69	69	71
6343430	66	67	59	65	64	62
6343431	69	66	61	70	64	63
6343432	77	69	60	64	61	61
6343433	67	58	55	60	57	55
6343434	79	59	44	46	64	65
6343435	80	66	62	63	64	67
Blank	66	62	58	67	61	56
OPR	58	59	55	61	58	56

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256194
Reported: 08/02/11 at 11:26 PM

Surrogate Quality Control

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6343429	98	81	93	79	83	83
6343430	85	72	75	75	78	78
6343431	99	71	75	76	82	85
6343432	81	67	77	80	82	82
6343433	80	64	66	70	76	77
6343434	45	55	41	67	76	77
6343435	68	66	61	76	80	80
Blank	92	66	73	72	76	80
OPR	85	64	71	66	71	74

Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6343429	84	105	122	66	74	
6343430	79	94	105	61	68	
6343431	84	104	112	62	70	
6343432	81	95	108	67	72	
6343433	77	92	96	57	59	
6343434	78	71	51	71	59	
6343435	80	84	77	70	66	
Blank	78	93	104	57	66	
OPR	72	88	100	51	62	

Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap#1256194 sample#6343429-36

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as Indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 5 (SA5) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	*Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-072-SA6-SB-4.5	07.13.11	0820	SOIL	NONE	5-Encores										X	X	X										
SL-072-SA6-SB-4.0-5.0	07.13.11	0825	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-072-SA6-SB-9.5	07.13.11	0830	SOIL	NONE	1-Encores												X										
SL-072-SA6-SB-9.0-10.0	07.13.11	0835	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-116-SA6-SB-3.0	07.13.11	0930	SOIL	NONE	5-Encores										X	X	X										
SL-116-SA6-SB-2.5-3.5	07.13.11	0935	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-118-SA6-SB-4.5	07.13.11	1350	SOIL	NONE	5-Encores										X	X	X										
SL-118-SA6-SB-4.0-5.0	07.13.11	1355	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-118-SA6-SB-11.0	07.13.11	1340	SOIL	NONE	1-Encores												X										
SL-118-SA6-SB-10.5-11.5	07.13.11	1345	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-083-SA6-SB-4.5	07.13.11	1500	SOIL	NONE	5-Encores										X	X	X										
SL-083-SA6-SB-4.0-5.0	07.13.11	1505	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-083-SA6-SB-9.5	07.13.11	1510	SOIL	NONE	1-Encores												X										
SL-083-SA6-SB-9.0-10.0	07.13.11	1515	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
TB-071311	07.13.11	0800	WATER	NONE	4-40mL vials										X	X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	07/13/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time 7/14/11 / 0810	Airbill No.(s) 8754 3340 5315, 5326,5337,5750,5760	

acct# 13013 Cap# 1256194 sample# 6343429-36

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB-SA6-SB-071311	07.13.11	1230	WATER	NONE	10-1 liter ambers			X	X	X								X			X	X		X			
EB-SA6-SB-071311	07.13.11	1230	WATER	NONE	1-500 mL poly		X				X	X	X														
EB-SA6-SB-071311	07.13.11	1230	WATER	HNO3	1-500 mL poly	X																					
EB-SA6-SB-071311	07.13.11	1230	WATER	NaOH	1-500 mL glass																						
EB-SA6-SB-071311	07.13.11	1230	WATER	NONE	1-250 mL glass																		X				
EB-SA6-SB-071311	07.13.11	1230	WATER	HCl	11-40 mL vials										X	X	X			X							
EB-SA6-SB-071311	07.13.11	1230	WATER	NONE	4-40 mL vials														X						X		
EB-SA6-SS-071311	07.13.11	1200	WATER	HCl	6-40 mL vials										X	X	X										

Laboratory: Lancaster Laboratories, Inc.

Received by: (Signature)	Date/Time	Airbill No.(s)
	07/13/2011 / 1600	8754 3340 5315, 5326,5337,5750,5760

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 19, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/14/2011
Group Number: 1256325
SDG: DE199
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-046-SA6-SS-0.0-0.5 Soil	6344255

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Tracy A. Cole
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-046-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA6-SS-0.0-0.5

LLI Sample # SW 6344255
LLI Group # 1256325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 10:23

Submitted: 07/14/2011 09:10
Reported: 08/19/2011 11:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9923 SDG#: DE199-23*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	16.8	U	16.8	33.7		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-046-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA6-SS-0.0-0.5

LLI Sample # SW 6344255
LLI Group # 1256325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 10:23

Submitted: 07/14/2011 09:10
Reported: 08/19/2011 11:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9923 SDG#: DE199-23*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.54	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.5	J	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.7		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	7.7		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.97	J	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	3.2		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	9.9	J	6.1	18		1
10138	Chrysene	218-01-9	4.5		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	4.1		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.72	J	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.9	J	6.1	18		1
10138	Phenanthrene	85-01-8	1.4	J	0.67	1.7		1
10138	Pyrene	129-00-0	3.1		0.67	1.7		1
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate 7.9 ug/kg These blank values were not subtracted from the analytical results.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-046-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA6-SS-0.0-0.5

LLI Sample # SW 6344255
LLI Group # 1256325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 10:23

Submitted: 07/14/2011 09:10
Reported: 08/19/2011 11:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9923 SDG#: DE199-23*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	50	U	50	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	5.0	U	5.0	5.0		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	1,000		77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

The LCS data for dinoseb and 2,4,5-TP is outside the QC limits. Results from the reextraction are within the limits. Dicamba, MCPP, and 2,4,5-T were detected in the method blank. These analytes were not detected in the method

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-046-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA6-SS-0.0-0.5

LLI Sample # SW 6344255
LLI Group # 1256325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 10:23

Submitted: 07/14/2011 09:10
Reported: 08/19/2011 11:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9923 SDG#: DE199-23*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	blank associated with the reextraction. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that MCPA was not detected in the reextract. Reporting limits were raised for 2,4-DB due to interference from the sample matrix.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.076	J	0.034	0.17		1
01363	Chlordane	57-74-9	2.3	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.22	U	0.22	0.34		1
01363	p,p-DDT	50-29-3	1.6		0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.20	U	0.20	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.14	U	0.14	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.26	U	0.26	0.34		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.046	U	0.046	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.0	U	5.0	17		5
10225	Aroclor 5442	12642-23-8	5.0	U	5.0	17		5
10225	Aroclor 5460	11126-42-4	5.0	U	5.0	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.6		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6		5
10225	PCB-1254	11097-69-1	15		1.7	8.6		5
10225	PCB-1260	11096-82-5	2.0	U	2.0	8.6		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6		5

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-046-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA6-SS-0.0-0.5

LLI Sample # SW 6344255
LLI Group # 1256325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 10:23

Submitted: 07/14/2011 09:10
Reported: 08/19/2011 11:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9923 SDG#: DE199-23*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	1.1	J	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	11		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	23		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.44	J	0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,600		6.05	20.0		1
07914	Boron	7440-42-8	0.823	J	0.360	5.00		1
01650	Calcium	7440-70-2	2,100		2.50	20.0		1
01654	Iron	7439-89-6	18,500		2.61	20.0		1
01656	Lithium	7439-93-2	24.8		0.62	2.0		1
01657	Magnesium	7439-95-4	4,240		0.440	10.0		1
06958	Manganese	7439-96-5	287		0.0360	0.500		1
10145	Phosphorus	7723-14-0	348		0.350	10.0		1
01662	Potassium	7440-09-7	3,180		11.3	50.0		1
01667	Sodium	7440-23-5	63.9	J	5.95	100		1
07968	Strontium	7440-24-6	16.2		0.0250	0.500		1
06969	Tin	7440-31-5	1.80	J	0.320	10.0		1
06970	Titanium	7440-32-6	873		0.0710	1.00		1
10146	Zirconium	7440-67-7	1.44	J	0.460	5.00		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0747	U	0.0747	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.33		0.0808	0.404		2
06126	Barium	7440-39-3	65.2		0.107	0.404		2

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Sample Description: SL-046-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA6-SS-0.0-0.5

LLI Sample # SW 6344255
LLI Group # 1256325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 10:23

Submitted: 07/14/2011 09:10
Reported: 08/19/2011 11:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9923 SDG#: DE199-23*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.397		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.151		0.0444	0.101		2
06131	Chromium	7440-47-3	12.1		0.121	0.404		2
06132	Cobalt	7440-48-4	3.80		0.0202	0.101		2
06133	Copper	7440-50-8	9.88		0.0808	0.404		2
06135	Lead	7439-92-1	9.76		0.0103	0.202		2
06138	Molybdenum	7439-98-7	0.399		0.0505	0.101		2
06139	Nickel	7440-02-0	7.92		0.101	0.404		2
06141	Selenium	7782-49-2	0.169	J	0.0586	0.404		2
06142	Silver	7440-22-4	0.0309	J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.204		0.0303	0.101		2
06148	Vanadium	7440-62-2	23.9		0.0222	0.101		2
06149	Zinc	7440-66-6	47.5		0.565	3.03		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0068	U	0.0068	0.0967		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.9		0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	0.98		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.28		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.96		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-046-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA6-SS-0.0-0.5

LLI Sample # SW 6344255
LLI Group # 1256325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 10:23

Submitted: 07/14/2011 09:10
Reported: 08/19/2011 11:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9923 SDG#: DE199-23*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11201SLB026	07/21/2011 19:17	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11201SLH026	08/01/2011 17:08	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11201SLL026	07/23/2011 03:15	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11201SLB026	07/20/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11201SLL026	07/21/2011 06:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11201SLH026	07/21/2011 06:30	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	112070007A	07/28/2011 07:20	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111970007A	07/19/2011 00:41	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112010012A	07/23/2011 09:16	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112010008A	08/12/2011 22:24	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112020012A	07/23/2011 07:40	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112010008A	07/20/2011 16:00	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112020012A	07/21/2011 18:35	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112010012A	07/20/2011 20:30	Elaine F Stoltzfus	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111970007A	07/17/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112070007A	07/26/2011 15:15	Kelli M Barto	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111960030A	07/17/2011 02:20	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111960003A	07/15/2011 20:04	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112020029A	07/22/2011 21:23	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020030A	07/22/2011 23:52	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112020030A	07/22/2011 07:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112020029A	07/22/2011 07:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111960030A	07/16/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111960003A	07/15/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111995708002	07/25/2011 00:56	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111995708002	07/25/2011 00:56	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111995708002	07/26/2011 05:06	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111995708002	07/25/2011 00:56	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111995708002	07/25/2011 00:56	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111995708002	07/26/2011 05:06	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111995708002	07/25/2011 00:56	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111995708002	07/25/2011 00:56	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111995708002	07/26/2011 05:06	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111995708002	07/26/2011 05:06	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111995708002	07/25/2011 00:56	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111995708002	07/25/2011 00:56	Tara L Snyder	1

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Sample Description: SL-046-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA6-SS-0.0-0.5

LLI Sample # SW 6344255
LLI Group # 1256325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 10:23

Submitted: 07/14/2011 09:10
Reported: 08/19/2011 11:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9923 SDG#: DE199-23*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111995708002	07/25/2011 00:56	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111995708002	07/25/2011 00:56	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111991026001A	07/23/2011 02:37	David K Beck	2
06125	Arsenic	SW-846 6020	1	111991026001A	07/23/2011 02:37	David K Beck	2
06126	Barium	SW-846 6020	1	111991026001D	07/23/2011 02:37	David K Beck	2
06127	Beryllium	SW-846 6020	1	111991026001A	07/23/2011 02:37	David K Beck	2
06128	Cadmium	SW-846 6020	1	111991026001A	07/23/2011 02:37	David K Beck	2
06131	Chromium	SW-846 6020	1	111991026001A	07/23/2011 02:37	David K Beck	2
06132	Cobalt	SW-846 6020	1	111991026001A	07/23/2011 02:37	David K Beck	2
06133	Copper	SW-846 6020	1	111991026001A	07/23/2011 02:37	David K Beck	2
06135	Lead	SW-846 6020	1	111991026001A	07/23/2011 02:37	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111991026001C	07/23/2011 02:37	David K Beck	2
06139	Nickel	SW-846 6020	1	111991026001A	07/23/2011 02:37	David K Beck	2
06141	Selenium	SW-846 6020	1	111991026001B	07/23/2011 02:37	David K Beck	2
06142	Silver	SW-846 6020	1	111991026001A	07/23/2011 02:37	David K Beck	2
06145	Thallium	SW-846 6020	1	111991026001A	07/23/2011 02:37	David K Beck	2
06148	Vanadium	SW-846 6020	1	111991026001A	07/23/2011 02:37	David K Beck	2
06149	Zinc	SW-846 6020	1	111991026001A	07/23/2011 02:37	David K Beck	2
00159	Mercury	SW-846 7471A	1	111995711002	07/18/2011 19:18	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708002	07/18/2011 12:05	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026001	07/18/2011 11:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711002	07/18/2011 13:38	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621201B	07/28/2011 02:34	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11207621201B	07/28/2011 02:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11200621202B	07/29/2011 10:30	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11211243201A	08/01/2011 20:25	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11201102201A	07/21/2011 19:00	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621201B	07/26/2011 07:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11200621202B	07/19/2011 07:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11201102201A	07/20/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039403B	07/25/2011 21:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11211243201A	07/30/2011 08:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256325
Reported: 08/19/11 at 11:52 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11201SLB026	Sample number(s): 6344255									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	98		70-130		
Batch number: 11201SLH026	Sample number(s): 6344255									
Aniline	170 U		170.	500	ug/kg	69		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	63		15-121		
Benzoic acid	170 U		170.	500	ug/kg	38*		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	91		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	96		79-117		
Carbazole	17	U	17.	170	ug/kg	96		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	95		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	69		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	92		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	89		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	86		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	78		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	95		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	96		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	93		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	87		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	89		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	85		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	65		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	95		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	95		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	98		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	30*		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	16*		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	95		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	100		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	98		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	100		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	93		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	98		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	90		68-105		
Isophorone	17	U	17.	170	ug/kg	93		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	93		66-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256325
Reported: 08/19/11 at 11:52 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Methylphenol	33	U	33.	170	ug/kg	89		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	101		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	94		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	65		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	92		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	97		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	84		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	87		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	100		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	86		51-117		
Phenol	17	U	17.	170	ug/kg	90		58-112		
Tetralin	170	U	170.	170	ug/kg	106		70-130		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	88		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	101		78-111		
Batch number: 11201SLL026	Sample number(s): 6344255									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	102		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	100		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	104		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	125		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	135		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	127		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	132		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	110		65-131		
Di-n-butylphthalate	7.9	J	6.0	18	ug/kg	117		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	97		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	128		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	110		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	107		79-121		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	107		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	102		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	129		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	85		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	89		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	111		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	140		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	101		56-121		
Batch number: 112070007A	Sample number(s): 6344255									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	111		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	111		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	98	100	54-134	3	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	97	100	54-134	3	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	115		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	106		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
HMX	100	U	100.	300	ug/kg	96		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	110		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	85		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256325
Reported: 08/19/11 at 11:52 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Nitrotoluene	80	U	80.	120	ug/kg	108		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	116		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	106		80-120		
PETN	800	U	800.	2,400	ug/kg	99		80-120		
RDX	50	U	50.	120	ug/kg	97		75-131		
Tetryl	61	U	61.	120	ug/kg	95		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	108		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
Batch number: 111970007A	Sample number(s): 6344255									
25a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	99		80-126		
Batch number: 112010012A	Sample number(s): 6344255									
2,4-D	1.2	U	1.2	3.6	ug/kg	79		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	51		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	68		62-131		
Dicamba	1.2	J	0.40	1.2	ug/kg	92		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	6*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	119		62-170		
MCPA	76	U	76.	250	ug/kg	79		60-130		
MCPP (Mecoprop)	470		75.	250	ug/kg	71		54-137		
2,4,5-T	0.090	J	0.082	0.17	ug/kg	73		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	64*		68-114		
Batch number: 112010008A	Sample number(s): 6344255									
Aldrin	0.066	U	0.066	0.17	ug/kg	79		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	65		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	97		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	79		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	90		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	98		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	94		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	94		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	87		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	82		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	94		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	103		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	85		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	85		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	102		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	76		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	103		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	97		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112020012A	Sample number(s): 6344255									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	97	88	36-106	10	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	93		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256325
Reported: 08/19/11 at 11:52 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	100		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111960003A	Sample number(s): 6344255									
Diethylene glycol	5.0	U	5.0	10	mg/kg	94		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	91		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	87		75-125		
Batch number: 111960030A	Sample number(s): 6344255									
Ethanol	100 U		100.	500	ug/kg	91		71-129		
Isopropanol	100 U		100.	500	ug/kg	92		75-125		
Methanol	100 U		100.	500	ug/kg	87		68-129		
Batch number: 112020029A	Sample number(s): 6344255									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	84		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	94		75-125		
Batch number: 112020030A	Sample number(s): 6344255									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	104		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	108		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	112		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	88		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	70		54-107		
Batch number: 111991026001A	Sample number(s): 6344255									
Antimony	0.0740	U	0.0740	0.200	mg/kg	54		40-224		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	98		78-122		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	100		80-120		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	101		81-119		
Chromium	0.120	U	0.120	0.400	mg/kg	102		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	95		80-119		
Copper	0.0800	U	0.0800	0.400	mg/kg	97		78-122		
Lead	0.0203	J	0.0102	0.200	mg/kg	98		77-123		
Nickel	0.100	U	0.100	0.400	mg/kg	105		80-120		
Silver	0.0142	U	0.0142	0.100	mg/kg	100		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	97		75-124		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	105		76-124		
Zinc	0.560	U	0.560	3.00	mg/kg	101		79-121		
Batch number: 111991026001B	Sample number(s): 6344255									
Selenium	0.0580	U	0.0580	0.400	mg/kg	104		77-123		
Batch number: 111991026001C	Sample number(s): 6344255									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	96		76-123		
Batch number: 111991026001D	Sample number(s): 6344255									
Barium	0.106	U	0.106	0.400	mg/kg	100		80-120		
Batch number: 111995708002	Sample number(s): 6344255									
Aluminum	5.93	U	5.93	19.6	mg/kg	129		42-158		
Boron	0.353	U	0.353	4.90	mg/kg	99		66-134		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256325
Reported: 08/19/11 at 11:52 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Calcium	6.19	J	2.45	19.6	mg/kg	108		79-121		
Iron	4.55	J	2.56	19.6	mg/kg	118		51-149		
Lithium	0.61	U	0.61	2.0	mg/kg	95		80-120		
Magnesium	0.739	J	0.431	9.80	mg/kg	115		64-136		
Manganese	0.0471	J	0.0353	0.490	mg/kg	100		78-122		
Phosphorus	1.56	J	0.343	9.80	mg/kg	98		80-120		
Potassium	11.1	U	11.1	49.0	mg/kg	113		69-131		
Sodium	5.83	U	5.83	98.0	mg/kg	106		71-129		
Strontium	0.0333	J	0.0245	0.490	mg/kg	102		81-119		
Tin	1.55	J	0.314	9.80	mg/kg	92		74-126		
Titanium	0.0765	J	0.0696	0.980	mg/kg	150		40-186		
Zirconium	0.517	J	0.451	4.90	mg/kg	99		80-120		
Batch number: 111995711002	Sample number(s): 6344255									
Mercury	0.0066	U	0.0066	0.0944	mg/kg	100		72-128		
Batch number: 11200621202B	Sample number(s): 6344255									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	113		85-115		
Batch number: 11201102201A	Sample number(s): 6344255									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11207621201B	Sample number(s): 6344255									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	106		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	100		90-110		
Batch number: 11211243201A	Sample number(s): 6344255									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11206039403B	Sample number(s): 6344255									
18a pH by 9045C						100		95-105		
Batch number: 11214162401A	Sample number(s): 6344255									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11201SLB026	Sample number(s): 6344255 UNSPK: P342215								
N-Nitrosodimethylamine	85	95	70-130	11	30				
Batch number: 11201SLH026	Sample number(s): 6344255 UNSPK: P343393								
Aniline	65	65	35-95	0	30				
Benzidine	34*	32*	35-141	7	30				
Benzoic acid	38	44	10-173	15	30				
Benzyl alcohol	88	91	67-115	4	30				
4-Bromophenyl-phenylether	94	93	67-129	0	30				
Carbazole	94	95	64-120	2	30				
4-Chloro-3-methylphenol	92	94	76-110	3	30				
4-Chloroaniline	66	72	23-95	9	30				

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Quality Control Summary

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Reported: 08/19/11 at 11:52 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Chloroethoxy)methane	92	95	75-104	4	30				
bis(2-Chloroethyl)ether	88	86	60-116	3	30				
bis(2-Chloroisopropyl)ether	86	87	55-142	1	30				
2-Chloronaphthalene	80	80	50-141	0	30				
2-Chlorophenol	93	94	73-121	1	30				
4-Chlorophenyl-phenylether	94	92	80-109	2	30				
Dibenzofuran	91	89	71-112	3	30				
1,2-Dichlorobenzene	83	85	66-108	3	30				
1,3-Dichlorobenzene	82	84	63-109	3	30				
1,4-Dichlorobenzene	83	85	70-100	2	30				
3,3'-Dichlorobenzidine	84	90	16-119	7	30				
2,4-Dichlorophenol	91	96	78-117	5	30				
2,4-Dimethylphenol	92	95	78-110	3	30				
3,5-Dimethylphenol	94	97	70-130	3	30				
4,6-Dinitro-2-methylphenol	10*	12*	24-116	13	30				
2,4-Dinitrophenol	0*	0*	20-143	0	30				
2,4-Dinitrotoluene	78	75	73-113	3	30				
2,6-Dinitrotoluene	90	86	69-123	5	30				
1,2-Diphenylhydrazine	99	98	71-129	0	30				
bis(2-Ethylhexyl)phthalate	106	109	63-122	2	30				
Hexachlorobenzene	92	89	77-114	3	30				
Hexachlorobutadiene	91	96	62-120	6	30				
Hexachlorocyclopentadiene	11	14	10-153	21	30				
Hexachloroethane	55*	58	57-109	5	30				
Isophorone	92	94	73-102	2	30				
2-Methylphenol	91	91	75-111	1	30				
4-Methylphenol	87	86	71-111	2	30				
2-Nitroaniline	111	109	67-125	2	30				
3-Nitroaniline	103	100	59-122	4	30				
4-Nitroaniline	83	82	52-112	1	30				
Nitrobenzene	91	93	72-106	3	30				
2-Nitrophenol	76	80	74-115	5	30				
4-Nitrophenol	81	78	54-113	4	30				
N-Nitroso-di-n-propylamine	87	87	60-116	0	30				
N-Nitrosodiphenylamine	100	98	86-145	1	30				
Pentachlorophenol	64	68	28-127	6	30				
Phenol	83	83	58-126	1	30				
Tetralin	0*	0*	70-130	0	30				
1,2,4-Trichlorobenzene	89	93	72-115	4	30				
2,4,5-Trichlorophenol	99	88	78-109	11	30				
2,4,6-Trichlorophenol	103	101	77-115	2	30				
Batch number: 11201SLL026	Sample number(s): 6344255 UNSPK: P343393								
Acenaphthene	93	92	63-105	1	30				
Acenaphthylene	95	97	67-114	1	30				
Anthracene	98	99	60-122	1	30				
Benzo(a)anthracene	112	116	59-128	4	30				
Benzo(a)pyrene	127	130	45-138	3	30				
Benzo(b)fluoranthene	140	137	43-155	2	30				
Benzo(g,h,i)perylene	84	77	33-141	8	30				
Benzo(k)fluoranthene	115	119	42-144	4	30				
Butylbenzylphthalate	161	164	57-173	2	30				
Di-n-butylphthalate	96	102	65-148	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256325
Reported: 08/19/11 at 11:52 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chrysene	96	90	48-134	6	30				
Dibenz(a,h)anthracene	106	101	22-133	4	30				
Diethylphthalate	119	121	70-136	2	30				
Dimethylphthalate	106	106	74-118	0	30				
Fluoranthene	112	114	26-166	2	30				
Fluorene	102	104	66-122	2	30				
Indeno(1,2,3-cd)pyrene	102	97	21-143	5	30				
1-Methylnaphthalene	84	84	72-123	0	30				
2-Methylnaphthalene	86	86	64-103	0	30				
Naphthalene	92	90	61-102	2	30				
N-Nitrosodimethylamine	87	109	48-113	23	30				
Di-n-octylphthalate	201*	201*	40-192	0	30				
Phenanthrene	102	102	12-165	0	30				
Pyrene	104	101	15-153	2	30				
Batch number: 112070007A	Sample number(s): 6344255 UNSPK: P343396								
4-Amino-2,6-Dinitrotoluene	107	108	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	105	107	80-137	2	50				
1,3-Dinitrobenzene	110	112	38-166	2	50				
2,4-Dinitrotoluene	101	104	80-131	2	50				
2,6-Dinitrotoluene	105	107	80-127	3	50				
HMX	90	91	63-128	1	50				
Nitrobenzene	103	107	80-125	4	50				
Nitroglycerin	85	85	80-120	1	50				
2-Nitrotoluene	103	106	80-122	3	50				
3-Nitrotoluene	111	114	72-119	2	50				
4-Nitrotoluene	102	105	80-125	3	50				
PETN	98	100	80-121	2	50				
RDX	87	89	75-129	2	50				
Tetryl	88	87	55-174	1	50				
1,3,5-Trinitrobenzene	102	105	82-126	3	50				
2,4,6-Trinitrotoluene	108	110	82-130	2	50				
Batch number: 111970007A	Sample number(s): 6344255 UNSPK: P342215								
25a Formaldehyde 8315A	99	96	80-120	2	50				
Batch number: 112010012A	Sample number(s): 6344255 UNSPK: P343393								
2,4-D	63	81	17-180	24	35				
Dalapon	37	42	10-125	12	50				
2,4-DB	176	168	10-201	5	50				
Dicamba	89	98	10-190	9	50				
Dinoseb	0*	6*	10-46	200*	35				
2,4-DP (Dichlorprop)	94	51	33-178	60*	50				
MCPA	-10*	2*	10-213	40	50				
MCPP (Mecoprop)	34	48	10-184	33	50				
2,4,5-T	49	72	10-156	29	35				
2,4,5-TP	28	66	24-141	82*	35				
Batch number: 112010008A	Sample number(s): 6344255 UNSPK: P343393								
Aldrin	0*	0*	16-126	0	50				
Alpha BHC	79	74	10-129	8	50				
Beta BHC	0*	134	14-147	200*	50				
Gamma BHC - Lindane	79	150*	10-140	62*	50				

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256325
Reported: 08/19/11 at 11:52 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
p,p-DDD	0*	0*	16-163	0	50				
p,p-DDE	358*	363*	18-161	1	50				
p,p-DDT	-1369 (2)	-1292 (2)	10-176	6	50				
Delta BHC	81	106	23-140	27	50				
Dieldrin	366*	404*	19-154	10	50				
Endosulfan I	0*	0*	16-137	0	50				
Endosulfan II	172*	200*	28-154	15	50				
Endosulfan Sulfate	0*	0*	21-160	0	50				
Endrin	164*	173*	11-149	5	50				
Endrin Aldehyde	108	117	10-148	8	35				
Endrin Ketone	97	88	22-165	10	50				
Heptachlor	0*	0*	13-126	0	50				
Heptachlor Epoxide	385*	355*	13-157	8	50				
Methoxychlor	105	113	32-147	8	50				
Batch number: 112020012A	Sample number(s): 6344255 UNSPK: P343394								
PCB-1016	372*	273*	29-146	31	50				
PCB-1260	563*	998*	39-149	56*	50				
Batch number: 111960003A	Sample number(s): 6344255 UNSPK: P343393								
Diethylene glycol	22*	30*	59-109	31*	20				
Ethylene glycol	49*	70	63-107	34*	20				
Propylene glycol	57*	79	63-107	33*	20				
Batch number: 111960030A	Sample number(s): 6344255 UNSPK: P343394								
Ethanol	84	89	48-130	6	20				
Isopropanol	92	95	12-149	4	20				
Methanol	84	91	43-138	7	20				
Batch number: 112020029A	Sample number(s): 6344255 UNSPK: P343395								
m-Terphenyl	31*	56*	75-125	57*	20				
o-Terphenyl	36*	64*	75-125	57*	20				
p-Terphenyl	34*	60*	75-125	57*	20				
Batch number: 112020030A	Sample number(s): 6344255 UNSPK: P343393								
EFH (C12-C14)	144*	126*	49-123	13	20				
EFH (C15-C20)	117	97	49-123	7	20				
EFH (C21-C30)	-327 (2)	-1170 (2)	49-123	56*	20				
EFH (C30 - C40)	-511 (2)	-105 (2)	49-123	17	20				
EFH (C8-C11)	98	0*	49-123	200*	20				
Batch number: 111991026001A	Sample number(s): 6344255 UNSPK: P343393 BKG: P343393								
Antimony	22*	14*	75-125	28*	20	0.112 J	0.168 J	40* (1)	20
Arsenic	127*	124	75-125	1	20	5.43	7.59	33*	20
Beryllium	89	96	75-125	5	20	0.424	0.483	13 (1)	20
Cadmium	98	100	75-125	1	20	0.168	0.239	35* (1)	20
Chromium	123	99	75-125	9	20	15.8	16.8	7	20
Cobalt	85	84	75-125	1	20	6.15	8.65	34*	20
Copper	93	65*	75-125	13	20	12.6	15.1	18	20
Lead	103	116	75-125	4	20	7.00	8.15	15	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256325
Reported: 08/19/11 at 11:52 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Nickel	85	86	75-125	1	20	10.6	11.0	4	20
Silver	100	100	75-125	0	20	0.0424 J	0.0364 J	15 (1)	20
Thallium	96	100	75-125	3	20	0.188	0.221	16 (1)	20
Vanadium	74*	107	75-125	8	20	34.3	37.8	10	20
Zinc	76 (2)	114 (2)	75-125	5	20	60.5	70.0	15	20
Batch number: 111991026001B	Sample number(s): 6344255 UNSPK: P343393 BKG: P343393								
Selenium	85	89	75-125	4	20	0.104 J	0.0929 J	12 (1)	20
Batch number: 111991026001C	Sample number(s): 6344255 UNSPK: P343393 BKG: P343393								
Molybdenum	101	91	75-125	10	20	0.463	0.543	16 (1)	20
Batch number: 111991026001D	Sample number(s): 6344255 UNSPK: P343393 BKG: P343393								
Barium	164 (2)	160 (2)	75-125	1	20	76.7	86.3	12	20
Batch number: 111995708002	Sample number(s): 6344255 UNSPK: P343400 BKG: P343400								
Aluminum	807 (2)	999 (2)	75-125	3	20	7,970	8,630	8	20
Boron	91	91	84-115	4	20	0.629 J	0.379 J	50* (1)	20
Calcium	-66 (2)	-147 (2)	75-125	12	20	2,870	1,850	43*	20
Iron	-34 (2)	1073 (2)	75-125	7	20	14,200	16,900	18	20
Lithium	98	102	82-114	1	20	50.1	50.3	0	20
Magnesium	120 (2)	171 (2)	75-125	2	20	3,450	3,480	1	20
Manganese	70 (2)	99 (2)	75-125	5	20	211	209	1	20
Phosphorus	233*	109	75-125	28*	20	296	324	9	20
Potassium	93	99	75-125	0	20	2,700	2,420	11	20
Sodium	94	94	75-125	4	20	98.9	99.5	1 (1)	20
Strontium	97	97	75-115	4	20	6.98	7.87	12	20
Tin	90	88	80-110	7	20	2.05 J	2.19 J	6 (1)	20
Titanium	164 (2)	213 (2)	75-125	4	20	780	775	1	20
Zirconium	97	96	75-125	5	20	1.60 J	1.66 J	4 (1)	20
Batch number: 111995711002	Sample number(s): 6344255 UNSPK: P343405 BKG: P343405								
Mercury	109	110	65-135	2	20	0.0068 U	0.0068 U	0 (1)	20
Batch number: 11200621202B	Sample number(s): 6344255 UNSPK: P343403 BKG: P343403								
7a Perchlorate EPA 314.0	105		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11201102201A	Sample number(s): 6344255 UNSPK: P343396 BKG: P343396								
17a Cyanide by 9012B	99		75-125			0.18 U	0.22 J	200* (1)	20
Batch number: 11207621201B	Sample number(s): 6344255 UNSPK: P343403 BKG: P343403								
11a Anions by 300.0 - Fluoride	105		80-120			0.80 U	1.5	200* (1)	20
11a Anions by 300.0 - Nitrate	100		80-120			1.8	2.3	25* (1)	20
Batch number: 11211243201A	Sample number(s): 6344255 UNSPK: P343394 BKG: P343394								
3a Cr VI by EPA 7199	77		75-125			0.54 J	0.75 J	32* (1)	20
Batch number: 11206039403B	Sample number(s): 6344255 BKG: P343402								
18a pH by 9045C						6.55	6.56	0	3
Batch number: 11214162401A	Sample number(s): 6344255 BKG: P345435								

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256325
Reported: 08/19/11 at 11:52 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Moisture Content by 160.3						0.50	U	0.50	U	0 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 15a NDMA by 1625C
Batch number: 11201SLB026

	N-Nitrosodimethylamine-d6
6344255	64
Blank	82
LCS	79
MS	63
MSD	62
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11201SLH026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6344255	89	87	81	86	91	79
Blank	77	79	75	78	83	74
LCS	93	92	88	88	93	81
MS	91	91	83	88	94	80
MSD	91	91	83	90	93	82
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11201SLL026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6344255	105	90	89
Blank	99	86	94
LCS	105	91	98
MS	108	92	85
MSD	106	88	80
Limits:	40-130	45-130	45-135

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111970007A

	Butyraldehyde
6344255	100
Blank	101

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256325
Reported: 08/19/11 at 11:52 AM

Surrogate Quality Control

LCS	99	
MS	98	
MSD	95	
Limits:	64-126	

Analysis Name: 12a Pesticides by 8081A
Batch number: 112010008A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6344255	70	61
Blank	56	102
LCS	66	103
MS	66	86
MSD	71	99
Limits:	50-130	20-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112010012A

	2,4-Dichlorophenylacetic acid
6344255	92
Blank	60
LCS	87
MS	100
MSD	111
Limits:	36-156

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112020012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6344255	87	84
Blank	102	91
LCS	96	93
LCSD	101	99
MS	73	84
MSD	79	89
Limits:	53-139	45-120

Analysis Name: 16a Energetics by 8330A
Batch number: 112070007A

	2-Nitro-m-xylene
6344255	133
Blank	132
LCS	131
LCSD	117
MS	117
MSD	112
Limits:	80-146

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256325
Reported: 08/19/11 at 11:52 AM

Surrogate Quality Control

Analysis Name: 21a Glycols by 8015B
Batch number: 111960003A

	Tetramethylene glycol
6344255	89
Blank	90
LCS	95
MS	98
MSD	102
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 111960030A

	Acetone
6344255	91
Blank	91
LCS	92
MS	96
MSD	98
Limits:	42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 112020029A

	n-Triacontane-d62
6344255	65
Blank	85
LCS	87
MS	22*
MSD	40*
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112020030A

	Chlorobenzene	Orthoterphenyl
6344255	73	105
Blank	80	106
LCS	87	114
MS	78	111
MSD	68	99
Limits:	37-125	47-145

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
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acct#13013 Cp#1256325 sample#6344255

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-E/PH EPA 8015 Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-280-SA6-SS-0.0-0.5	07.12.11	1543	SOIL	NONE	1-SS Sleeve			X	X																				
SL-280-SA6-SS-0.0-0.5	07.12.11	1543	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X		X	X			X	X	X	
SL-281-SA6-SS-0.0-0.5	07.12.11	1430	SOIL	NONE	1-SS Sleeve			X	X																				
SL-281-SA6-SS-0.0-0.5	07.12.11	1430	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X		X	X			X	X	X	
SL-300-SA6-SS-0.0-0.5	07.12.11	1505	SOIL	NONE	1-SS Sleeve			X	X																				
SL-300-SA6-SS-0.0-0.5	07.12.11	1505	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X		X	X			X	X	X	
SL-030-SA6-SS-0.0-0.5	07.13.11	1110	SOIL	NONE	1-SS Sleeve			X	X																				
SL-030-SA6-SS-0.0-0.5	07.13.11	1110	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X		X	X			X	X	X	
SL-035-SA6-SS-0.0-0.5	07.13.11	1005	SOIL	NONE	1-SS Sleeve			X	X																				
SL-035-SA6-SS-0.0-0.5	07.13.11	1005	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X	X	X	X	X	X	X	X	X	
SL-040-SA6-SS-0.0-0.5	07.13.11	0945	SOIL	NONE	1-SS Sleeve			X	X																				
SL-040-SA6-SS-0.0-0.5	07.13.11	0945	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-047-SA6-SS-0.0-0.5	07.13.11	1353	SOIL	NONE	1-SS Sleeve			X	X																				
SL-047-SA6-SS-0.0-0.5	07.13.11	1353	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X	X						X	X	
SL-059-SA6-SS-0.0-0.5	07.13.11	1323	SOIL	NONE	1-SS Sleeve			X	X																				
SL-059-SA6-SS-0.0-0.5	07.13.11	1323	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X	X	X	X	X	X	X	X	X	
SL-066-SA6-SS-0.0-0.5	07.13.11	1443	SOIL	NONE	1-SS Sleeve			X	X																				
SL-066-SA6-SS-0.0-0.5	07.13.11	1443	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X				X						X	X	X	
SL-067-SA6-SS-0.0-0.5	07.13.11	1413	SOIL	NONE	1-SS Sleeve			X	X																				
SL-067-SA6-SS-0.0-0.5	07.13.11	1413	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X	X	X	X	X	X	X	X	X	
SL-278-SA6-SS-0.0-0.5	07.13.11	0910	SOIL	NONE	1-SS Sleeve			X	X																				
SL-278-SA6-SS-0.0-0.5	07.13.11	0910	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X	X	X	X	X	X	X	X	X	
SL-278-SA6-SS-0.0-0.5	07.13.11	0910	SOIL	NONE	5- Encores												X	X	X										PIDs 10ppm so encores collected
SL-279-SA6-SS-0.0-0.5	07.13.11	0738	SOIL	NONE	1-SS Sleeve			X	X																				
SL-279-SA6-SS-0.0-0.5	07.13.11	0738	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X						X	X	X	Primary,alcohols,glycols,terphenyls,TPH only

Relinquished by: (Signature) — Date/Time: 07/13/2011 / 1600 — Received for Laboratory by: (Signature)

Received by: (Signature) — Date/Time: 7/14/11 @ 0800 — Airbill No.(s): 8754 3340 5315, 5326,5337,5750,5760

Laboratory: Lancaster Laboratories, Inc.

SL-046-SA6-SS-0.0-0.5 (collected 7/13/11 @10:23) was received. All primary, secondary, and pest/herb analyses were requested per PH. NLM 7/18/11

Tamara J. Helsel

From: Nicole Maljovec
Sent: Thursday, July 14, 2011 4:59 PM
To: Tamara J. Helsel
Subject: FW: SSFL COC 7/13/11- extra sample

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Thursday, July 14, 2011 4:39 PM
To: Nicole Maljovec
Subject: RE: SSFL COC 7/13/11- extra sample

Yes! Thanks Nicole!

-- Sent from my Palm Pre

On Jul 14, 2011 1:11 PM, Nicole Maljovec <nmaljovec@lancasterlabs.com> wrote:

Do you need pest and herbs too?

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Thursday, July 14, 2011 12:19 PM
To: Nicole Maljovec
Subject: RE: SSFL COC 7/13/11- extra sample

ugh. I missed one! SL-046 needs all primary and secondary.

Thanks!!

Pam

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Thursday, July 14, 2011 9:13 AM
To: Hartman, Pamela
Subject: RE: SSFL COC 7/13/11- extra sample

Hi Pam,
We received one extra sample, SL-046-SA6-SS-0.0-0.5. I have 2 jars and
1 sleeve. Can you let me know what tests it gets?

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Wednesday, July 13, 2011 7:22 PM
To: Bloisa, Peggy; 'Laura Rainey'; SA Env Entry; Zakowski, Cherie; Nicole Maljovec; Burgesser, Todd
Subject: SSFL COC 7/13/11

COC for Wednesday 7/13/11

Thanks,

Pam

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 03, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/14/2011
Group Number: 1256326
SDG: DX112
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-046-SA6-SS-0.0-0.5 Soil	6344256

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-046-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA6-SS-0.0-0.5

LLI Sample # SW 6344256
LLI Group # 1256326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 10:23

Submitted: 07/14/2011 09:10
Reported: 08/03/2011 07:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1209 SDG#: DX112-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.96	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-046-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA6-SS-0.0-0.5

LLI Sample # SW 6344256
LLI Group # 1256326
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Collected: 07/13/2011 10:23

Submitted: 07/14/2011 09:10
Reported: 08/03/2011 07:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1209 SDG#: DX112-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0661	J	0.0368	0.990	1
11031	12378-PeCDD	40321-76-4	0.278	JQ	0.0521	4.95	1
11031	123478-HxCDD	39227-28-6	0.677	J	0.0923	4.95	1
11031	123678-HxCDD	57653-85-7	2.09	JB	0.0960	4.95	1
11031	123789-HxCDD	19408-74-3	1.28	JB	0.0973	4.95	1
11031	1234678-HpCDD	35822-46-9	60.1	B	0.121	4.95	1
11031	OCDD	3268-87-9	762	B	0.118	9.90	1
11031	2378-TCDF	51207-31-9	0.457	J	0.0817	0.990	1
11031	12378-PeCDF	57117-41-6	0.833	JB	0.0540	4.95	1
11031	23478-PeCDF	57117-31-4	0.757	JB	0.0539	4.95	1
11031	123478-HxCDF	70648-26-9	1.25	JB	0.0737	4.95	1
11031	123678-HxCDF	57117-44-9	0.448	JBQ	0.0657	4.95	1
11031	123789-HxCDF	72918-21-9	0.186	J	0.0851	4.95	1
11031	234678-HxCDF	60851-34-5	0.561	JB	0.0732	4.95	1
11031	1234678-HpCDF	67562-39-4	7.52	B	0.0512	4.95	1
11031	1234789-HpCDF	55673-89-7	0.832	JB	0.0848	4.95	1
11031	OCDF	39001-02-0	18.7	B	0.0663	9.90	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	57	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	49	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-046-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA6-SS-0.0-0.5

LLI Sample # SW 6344256
LLI Group # 1256326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 10:23

Submitted: 07/14/2011 09:10
Reported: 08/03/2011 07:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1209 SDG#: DX112-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-046-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA6-SS-0.0-0.5

LLI Sample # SW 6344256
LLI Group # 1256326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 10:23

Submitted: 07/14/2011 09:10
Reported: 08/03/2011 07:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1209 SDG#: DX112-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11207001	07/29/2011 14:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11207001	07/26/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256326
Reported: 08/03/11 at 07:36 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11214162401A	Sample number(s): 6344256								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11207001	Sample number(s): 6344256								
2378-TCDD	0.0511 U	0.0511	1.00	ng/kg	91		67-158		
12378-PeCDD	0.0399 U	0.0399	5.00	ng/kg	92		70-142		
123478-HxCDD	0.0233 U	0.0233	5.00	ng/kg	91		70-164		
123678-HxCDD	0.0231 J	0.0221	5.00	ng/kg	88		76-134		
123789-HxCDD	0.0584 J	0.0215	5.00	ng/kg	89		64-162		
1234678-HpCDD	0.365 J	0.0356	5.00	ng/kg	89		70-140		
OCDD	0.801 J	0.0350	10.0	ng/kg	86		78-144		
2378-TCDF	0.0441 U	0.0441	1.00	ng/kg	93		75-158		
12378-PeCDF	0.0259 J	0.0209	5.00	ng/kg	87		80-134		
23478-PeCDF	0.0391 J	0.0196	5.00	ng/kg	87		68-160		
123478-HxCDF	0.0221 J	0.0166	5.00	ng/kg	85		72-134		
123678-HxCDF	0.0227 J	0.0143	5.00	ng/kg	87		84-130		
123789-HxCDF	0.0197 U	0.0197	5.00	ng/kg	84		78-130		
234678-HxCDF	0.0195 J	0.0153	5.00	ng/kg	85		70-156		
1234678-HpCDF	0.0647 J	0.0104	5.00	ng/kg	84		82-122		
1234789-HpCDF	0.0217 J	0.0183	5.00	ng/kg	87		78-138		
OCDF	0.114 J	0.0398	10.0	ng/kg	85		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Batch number: 11214162401A	Sample number(s): 6344256			BKG: P345435							
Moisture Content by 160.3						0.50	U	0.50	U	0 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256326
Reported: 08/03/11 at 07:36 AM

Surrogate Quality Control

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11207001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6344256	79	61	58	63	57	56
Blank	66	62	58	67	61	56
OPR	58	59	55	61	58	56
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6344256	74	55	49	75	77	77
Blank	92	66	73	72	76	80
OPR	85	64	71	66	71	74
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6344256	74	80	74	66	69
Blank	78	93	104	57	66
OPR	72	88	100	51	62
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cp#1256326 sample#6344256

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260B/M $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015M/Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-280-SA6-SS-0.0-0.5	07.12.11	1543	SOIL	NONE	1-SS Sleeve			X	X																				
SL-280-SA6-SS-0.0-0.5	07.12.11	1543	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X		X	X			X	X	X	
SL-281-SA6-SS-0.0-0.5	07.12.11	1430	SOIL	NONE	1-SS Sleeve			X	X																				
SL-281-SA6-SS-0.0-0.5	07.12.11	1430	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X		X	X			X	X	X	
SL-300-SA6-SS-0.0-0.5	07.12.11	1505	SOIL	NONE	1-SS Sleeve			X	X																				
SL-300-SA6-SS-0.0-0.5	07.12.11	1505	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X		X	X			X	X	X	
SL-030-SA6-SS-0.0-0.5	07.13.11	1110	SOIL	NONE	1-SS Sleeve			X	X																				
SL-030-SA6-SS-0.0-0.5	07.13.11	1110	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X	X	X	X	X	X	X	X	X	
SL-035-SA6-SS-0.0-0.5	07.13.11	1005	SOIL	NONE	1-SS Sleeve			X	X																				
SL-035-SA6-SS-0.0-0.5	07.13.11	1005	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X	X	X	X	X	X	X	X	X	
SL-040-SA6-SS-0.0-0.5	07.13.11	0945	SOIL	NONE	1-SS Sleeve			X	X																				
SL-040-SA6-SS-0.0-0.5	07.13.11	0945	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X				X	X						X	X	
SL-047-SA6-SS-0.0-0.5	07.13.11	1353	SOIL	NONE	1-SS Sleeve			X	X																				
SL-047-SA6-SS-0.0-0.5	07.13.11	1353	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X	X	X	X	X	X	X	X	X	
SL-059-SA6-SS-0.0-0.5	07.13.11	1323	SOIL	NONE	1-SS Sleeve			X	X																				
SL-059-SA6-SS-0.0-0.5	07.13.11	1323	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X				X						X	X	X	
SL-066-SA6-SS-0.0-0.5	07.13.11	1443	SOIL	NONE	1-SS Sleeve			X	X																				
SL-066-SA6-SS-0.0-0.5	07.13.11	1443	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X	X	X	X	X	X	X	X	X	
SL-067-SA6-SS-0.0-0.5	07.13.11	1413	SOIL	NONE	1-SS Sleeve			X	X																				
SL-067-SA6-SS-0.0-0.5	07.13.11	1413	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X	X	X	X	X	X	X	X	X	
SL-278-SA6-SS-0.0-0.5	07.13.11	0910	SOIL	NONE	1-SS Sleeve			X	X																				
SL-278-SA6-SS-0.0-0.5	07.13.11	0910	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X	X	X	X	X	X	X	X	X	
SL-278-SA6-SS-0.0-0.5	07.13.11	0910	SOIL	NONE	5- Encores												X	X	X										
SL-279-SA6-SS-0.0-0.5	07.13.11	0738	SOIL	NONE	1-SS Sleeve			X	X																				
SL-279-SA6-SS-0.0-0.5	07.13.11	0738	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X				X						X	X	X	

*Dioxin<10ppm so encores collected

Relinquished by: (Signature) — Date/Time: 07/13/2011 / 1800 — Received for Laboratory by: (Signature)

Received by: (Signature) — Date/Time: 7/14/11 0800 — Airbill No.(s): 8754 3340 5315, 5326,5337,5750,5760

Primary; alcohols, glycols, terphenyls, TPH only

Laboratory: Lancaster Laboratories, Inc.

SL-046-SA6-SS-0.0-0.5 (7/13/11 @10:23) received. Entered for all primary, secondary, and pest/herbs analyses per PH. NLM 7/18/11

Tamara J. Helsel

From: Nicole Maljovec
Sent: Thursday, July 14, 2011 4:59 PM
To: Tamara J. Helsel
Subject: FW: SSFL COC 7/13/11- extra sample

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Thursday, July 14, 2011 4:39 PM
To: Nicole Maljovec
Subject: RE: SSFL COC 7/13/11- extra sample

Yes! Thanks Nicole!

-- Sent from my Palm Pre

On Jul 14, 2011 1:11 PM, Nicole Maljovec <nmaljovec@lancasterlabs.com> wrote:

Do you need pest and herbs too?

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Thursday, July 14, 2011 12:19 PM
To: Nicole Maljovec
Subject: RE: SSFL COC 7/13/11- extra sample

ugh. I missed one! SL-046 needs all primary and secondary.

Thanks!!

Pam

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Thursday, July 14, 2011 9:13 AM
To: Hartman, Pamela
Subject: RE: SSFL COC 7/13/11- extra sample

Hi Pam,
We received one extra sample, SL-046-SA6-SS-0.0-0.5. I have 2 jars and 1 sleeve. Can you let me know what tests it gets?

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Wednesday, July 13, 2011 7:22 PM
To: Bloisa, Peggy; 'Laura Rainey'; SA Env Entry; Zakowski, Cherie; Nicole Maljovec; Burgesser, Todd
Subject: SSFL COC 7/13/11

COC for Wednesday 7/13/11

Thanks,

Pam

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 24, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/15/2011
Group Number: 1256494
SDG: DE200
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-037-SA6-SS-0.0-0.5 Soil	6345434
SL-048-SA6-SS-0.0-0.5 Soil	6345435
SL-049-SA6-SS-0.0-0.5 Soil	6345436
SL-050-SA6-SS-0.0-0.5 Soil	6345437
SL-051-SA6-SS-0.0-0.5 Soil	6345438
SL-052-SA6-SS-0.0-0.5 Soil	6345439
SL-053-SA6-SS-0.0-0.5 Soil	6345440
SL-054-SA6-SS-0.0-0.5 Soil	6345441
SL-055-SA6-SS-0.0-0.5 Soil	6345442
SL-060-SA6-SS-0.0-0.5 Soil	6345443
SL-063-SA6-SS-0.0-0.5 Soil	6345444
SL-064-SA6-SS-0.0-0.5 Soil	6345445
SL-071-SA6-SB-4.0-5.0 Soil	6345446
SL-071-SA6-SB-6.0-7.0 Soil	6345447
SL-074-SA6-SB-4.0-5.0 Soil	6345448
SL-074-SA6-SB-4.0-5.0MS Soil	6345449
SL-074-SA6-SB-4.0-5.0MSD Soil	6345450
SL-074-SA6-SB-4.0-5.0DUP Soil	6345451
SL-074-SA6-SB-9.0-10.0 Soil	6345452
SL-088-SA6-SB-4.0-5.0 Soil	6345453
SL-088-SA6-SB-9.0-10.0 Soil	6345454
DUP02-SA6-QC-071411 Soil	6345455
TB-071411 Water	6345456

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Analysis Report

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Chad A. Moline
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-037-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA6-SS-0.0-0.5

LLI Sample # SW 6345434
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:54

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0001 SDG#: DE200-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	17.0	U	17.0	34.0		1
	This sample was extracted outside of the method required holding time due to a laboratory error.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-037-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA6-SS-0.0-0.5

LLI Sample # SW 6345434
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:54

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0001 SDG#: DE200-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.85	J	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.6	J	0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.99	J	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	12		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	9.2	J	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	1.5	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	1.7	J	0.68	1.7		1
10138	Fluorene	86-73-7	2.7		0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.98	J	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.84	J	0.68	1.7		1
10138	Naphthalene	91-20-3	1.8		0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	8.2	J	6.1	18		1
10138	Phenanthrene	85-01-8	1.5	J	0.68	1.7		1
10138	Pyrene	129-00-0	1.3	J	0.68	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-037-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA6-SS-0.0-0.5

LLI Sample # SW 6345434
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:54

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0001 SDG#: DE200-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	1.1	J	0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	79	U	79	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1
	Reporting limits were raised for MCPA due to interference from the sample matrix.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-037-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA6-SS-0.0-0.5

LLI Sample # SW 6345434
LLI Group # 1256494
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:54

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0001 SDG#: DE200-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	8.9		0.82	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.45		0.067	0.35		1
01363	p,p-DDT	50-29-3	0.68		0.067	0.35		1
01363	Delta BHC	319-86-8	0.20		0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.18	U	0.18	0.18		1
01363	Endosulfan II	33213-65-9	0.13	U	0.13	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.13	U	0.13	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.17	U	0.17	0.35		1
01363	Toxaphene	8001-35-2	14		2.2	6.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.3	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	2.7		0.34	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-037-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA6-SS-0.0-0.5

LLI Sample # SW 6345434
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:54

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0001 SDG#: DE200-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.99	J	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	4.7		0.41	1.2		1
10199	EFH (C21-C30)	n.a.	18		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	40		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.90	J	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,300		6.05	20.0		1
07914	Boron	7440-42-8	4.23	J	0.367	5.10		1
01650	Calcium	7440-70-2	3,610		2.55	20.4		1
01654	Iron	7439-89-6	15,500		2.66	20.4		1
01656	Lithium	7439-93-2	21.6		0.63	2.0		1
01657	Magnesium	7439-95-4	3,570		0.449	10.2		1
06958	Manganese	7439-96-5	258		0.0367	0.510		1
10145	Phosphorus	7723-14-0	339		0.357	10.2		1
01662	Potassium	7440-09-7	3,280		11.5	51.0		1
01667	Sodium	7440-23-5	52.9	J	6.07	102		1
07968	Strontium	7440-24-6	31.1		0.0255	0.510		1
06969	Tin	7440-31-5	2.34	J	0.327	10.2		1
06970	Titanium	7440-32-6	946		0.0710	1.00		1
10146	Zirconium	7440-67-7	1.52	J	0.469	5.10		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.180	J	0.0740	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.59		0.0800	0.400		2
06126	Barium	7440-39-3	125		0.106	0.400		2
06127	Beryllium	7440-41-7	0.596		0.0160	0.100		2
06128	Cadmium	7440-43-9	0.229		0.0440	0.100		2
06131	Chromium	7440-47-3	16.0		0.120	0.400		2
06132	Cobalt	7440-48-4	5.75		0.0200	0.100		2
06133	Copper	7440-50-8	9.11		0.0800	0.400		2
06135	Lead	7439-92-1	12.5		0.0102	0.200		2

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Sample Description: SL-037-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA6-SS-0.0-0.5

LLI Sample # SW 6345434
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:54

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0001 SDG#: DE200-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg		mg/kg	mg/kg	mg/kg	
06138	Molybdenum	7439-98-7	0.703		0.0500	0.100		2
06139	Nickel	7440-02-0	13.1		0.100	0.400		2
06141	Selenium	7782-49-2	0.178	J	0.0580	0.400		2
06142	Silver	7440-22-4	0.0689	J	0.0142	0.100		2
06145	Thallium	7440-28-0	0.330		0.0300	0.100		2
06148	Vanadium	7440-62-2	31.5		0.0220	0.100		2
06149	Zinc	7440-66-6	62.8		0.560	3.00		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0077	J	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.81	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.81	1.5		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.37		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	2.0		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-037-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA6-SS-0.0-0.5

LLI Sample # SW 6345434
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:54

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0001 SDG#: DE200-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11217SLD026	08/10/2011 14:43	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11202SLA026	08/02/2011 02:46	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11202SLC026	07/28/2011 23:38	Brian K Graham	1
11630	NDMA Soil Microwave	SW-846 3546	1	11217SLD026	08/05/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11202SLC026	07/23/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11202SLA026	07/22/2011 06:00	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	112070007A	07/28/2011 08:03	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111970008A	07/19/2011 01:09	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112030003A	07/25/2011 13:52	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112020040A	08/16/2011 00:21	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112020040A	08/17/2011 02:48	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060004A	07/26/2011 18:33	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112020040A	07/22/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060004A	07/25/2011 14:30	Wanda F Oswald	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112030003A	07/23/2011 08:25	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111970008A	07/17/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112070007A	07/26/2011 15:15	Kelli M Barto	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111990026A	07/21/2011 00:14	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111990002A	07/19/2011 08:38	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112030005A	07/26/2011 04:26	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112040003A	07/26/2011 04:49	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112040003A	07/25/2011 02:45	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	112030005A	07/25/2011 07:30	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111990026A	07/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111990002A	07/18/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708001	07/27/2011 14:41	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111995708003	07/25/2011 19:44	John P Hook	1
01650	Calcium	SW-846 6010B	1	111995708003	07/25/2011 19:44	John P Hook	1
01654	Iron	SW-846 6010B	1	111995708003	07/25/2011 19:44	John P Hook	1
01656	Lithium	SW-846 6010B	1	111995708003	07/25/2011 19:44	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111995708003	07/25/2011 19:44	John P Hook	1
06958	Manganese	SW-846 6010B	1	111995708003	07/25/2011 19:44	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111995708003	07/25/2011 19:44	John P Hook	1
01662	Potassium	SW-846 6010B	1	111995708003	07/25/2011 19:44	John P Hook	1
01667	Sodium	SW-846 6010B	1	111995708003	07/25/2011 19:44	John P Hook	1
07968	Strontium	SW-846 6010B	1	111995708003	07/25/2011 19:44	John P Hook	1
06969	Tin	SW-846 6010B	1	111995708003	07/25/2011 19:44	John P Hook	1
06970	Titanium	SW-846 6010B	1	112075708001	07/27/2011 14:41	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111995708003	07/25/2011 19:44	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-037-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA6-SS-0.0-0.5

LLI Sample # SW 6345434
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:54

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0001 SDG#: DE200-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	111991026002A	07/25/2011 07:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111991026002A	07/25/2011 07:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111991026002D	07/25/2011 07:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111991026002A	07/25/2011 07:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111991026002A	07/25/2011 07:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111991026002A	07/25/2011 07:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111991026002A	07/25/2011 07:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111991026002A	07/25/2011 07:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111991026002A	07/25/2011 07:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111991026002C	07/25/2011 07:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111991026002A	07/25/2011 07:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111991026002B	07/25/2011 07:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111991026002A	07/25/2011 07:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111991026002A	07/25/2011 07:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111991026002A	07/25/2011 07:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111991026002A	07/25/2011 07:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111995711003	07/19/2011 07:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708003	07/18/2011 22:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112075708001	07/26/2011 22:49	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026002	07/18/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711003	07/19/2011 02:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621202A	07/28/2011 02:49	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11207621202A	07/28/2011 02:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206206201A	07/27/2011 03:32	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243202A	07/28/2011 12:51	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11209102201A	07/28/2011 21:01	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621202A	07/26/2011 08:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206206201A	07/25/2011 15:20	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	3	11209102201A	07/28/2011 17:15	Venia B McFadden	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039404A	07/25/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243202A	07/27/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-048-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA6-SS-0.0-0.5

LLI Sample # SW 6345435
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 15:46

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0002 SDG#: DE200-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	283		16.5	33.0		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 168 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank. N-Nitrosodimethylamine was detected in the re-analysis of the sample at 23 ng/kg. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Chrysene	218-01-9	17	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-048-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA6-SS-0.0-0.5

LLI Sample # SW 6345435
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 15:46

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0002 SDG#: DE200-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.66	U	0.66	1.7		1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7		1
10138	Anthracene	120-12-7	0.33	U	0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.66	U	0.66	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.66	U	0.66	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.66	U	0.66	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.66	U	0.66	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.66	U	0.66	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	J	5.9	18		1
10138	Di-n-butylphthalate	84-74-2	5.9	U	5.9	18		1
10138	Dibenz(a,h)anthracene	53-70-3	0.66	U	0.66	1.7		1
10138	Diethylphthalate	84-66-2	5.9	U	5.9	18		1
10138	Dimethylphthalate	131-11-3	5.9	U	5.9	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	5.9	U	5.9	18		1
10138	Fluoranthene	206-44-0	0.66	U	0.66	1.7		1
10138	Fluorene	86-73-7	0.66	U	0.66	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.66	U	0.66	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.66	U	0.66	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.66	U	0.66	1.7		1
10138	Naphthalene	91-20-3	0.66	U	0.66	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.66	U	0.66	1.7		1
10138	Di-n-octylphthalate	117-84-0	5.9	U	5.9	18		1
10138	Phenanthrene	85-01-8	0.66	U	0.66	1.7		1
10138	Pyrene	129-00-0	0.66	U	0.66	1.7		1
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-048-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA6-SS-0.0-0.5

LLI Sample # SW 6345435
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 15:46

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0002 SDG#: DE200-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	60	U	60	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	80	U	80	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	80	U	80	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	800	U	800	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	80	U	80	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	80	U	80	120	10000000	1
10132	PETN	78-11-5	800	U	800	2,400	10000000	1
10132	RDX	121-82-4	50	U	50	120	10000000	1
10132	Tetryl	479-45-8	61	U	61	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	9.1	U	9.1	9.1		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	1,000		76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.10	U	0.10	0.17		1

MCPA was detected in the method blank at 190 ug/kg and in the sample at 1000

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Sample Description: SL-048-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA6-SS-0.0-0.5

LLI Sample # SW 6345435
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 15:46

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0002 SDG#: DE200-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	ug/kg. The sample was reextracted outside the method hold time. The blank and the sample associated with the reextraction did not have a MCPA detection. The original data was reported. Reporting limits were raised for 2,4,5-TP and 2,4-DB due to interference from the sample matrix.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	600	U	600	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.80	U	0.80	3.4		1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34		1
01363	p,p-DDE	72-55-9	0.071	J	0.066	0.34		1
01363	p,p-DDT	50-29-3	0.47		0.066	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.066	U	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.13	J	0.066	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.066	U	0.066	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.11	J	0.066	0.34		1
01363	Endrin Ketone	53494-70-5	0.10	J	0.066	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.039	J	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1

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Sample Description: SL-048-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA6-SS-0.0-0.5

LLI Sample # SW 6345435
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 15:46

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0002 SDG#: DE200-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	0.52	J	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	5.1		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	14		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,400		5.82	19.2		1
07914	Boron	7440-42-8	1.99	J	0.356	4.95		1
01650	Calcium	7440-70-2	2,430		2.48	19.8		1
01654	Iron	7439-89-6	19,000		2.58	19.8		1
01656	Lithium	7439-93-2	40.0		0.61	2.0		1
01657	Magnesium	7439-95-4	4,630		0.436	9.90		1
06958	Manganese	7439-96-5	294		0.0356	0.495		1
10145	Phosphorus	7723-14-0	459		0.347	9.90		1
01662	Potassium	7440-09-7	3,560		11.2	49.5		1
01667	Sodium	7440-23-5	64.6	J	5.89	99.0		1
07968	Strontium	7440-24-6	13.3		0.0248	0.495		1
06969	Tin	7440-31-5	2.72	J	0.317	9.90		1
06970	Titanium	7440-32-6	967		0.0683	0.962		1
10146	Zirconium	7440-67-7	2.80	J	0.455	4.95		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.188	J	0.0733	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.40		0.0792	0.396		2
06126	Barium	7440-39-3	128		0.105	0.396		2
06127	Beryllium	7440-41-7	0.660		0.0158	0.0990		2

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Sample Description: SL-048-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA6-SS-0.0-0.5

LLI Sample # SW 6345435
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 15:46

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0002 SDG#: DE200-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.578		0.0436	0.0990		2
06131	Chromium	7440-47-3	19.9		0.119	0.396		2
06132	Cobalt	7440-48-4	7.16		0.0198	0.0990		2
06133	Copper	7440-50-8	10.0		0.0792	0.396		2
06135	Lead	7439-92-1	14.4		0.0101	0.198		2
06138	Molybdenum	7439-98-7	0.910		0.0495	0.0990		2
06139	Nickel	7440-02-0	15.6		0.0990	0.396		2
06141	Selenium	7782-49-2	0.169	J	0.0574	0.396		2
06142	Silver	7440-22-4	0.177		0.0141	0.0990		2
06145	Thallium	7440-28-0	0.338		0.0297	0.0990		2
06148	Vanadium	7440-62-2	36.6		0.0218	0.0990		2
06149	Zinc	7440-66-6	92.1		0.554	2.97		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0555	J	0.0066	0.0945		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.1		0.80	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.0	U	9.0	30.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44	J	0.20	0.99		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.26		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-048-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA6-SS-0.0-0.5

LLI Sample # SW 6345435
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 15:46

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E0002 SDG#: DE200-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11207SLC026	08/09/2011 16:32	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11202SLA026	08/02/2011 03:11	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11202SLC026	07/29/2011 00:10	Brian K Graham	1
11630	NDMA Soil Microwave	SW-846 3546	1	11207SLC026	07/27/2011 07:35	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11202SLC026	07/23/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11202SLA026	07/22/2011 06:00	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	112070007A	07/28/2011 08:45	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111970008A	07/19/2011 01:47	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112030003A	07/25/2011 15:15	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112020040A	08/16/2011 01:17	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060004A	07/26/2011 18:51	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112020040A	07/22/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060004A	07/25/2011 14:30	Wanda F Oswald	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112030003A	07/23/2011 08:25	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111970008A	07/17/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112070007A	07/26/2011 15:15	Kelli M Barto	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111990026A	07/21/2011 00:29	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111990002A	07/19/2011 08:50	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112030005A	07/25/2011 21:45	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112080002A	07/28/2011 04:11	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	112080002A	07/27/2011 09:55	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112030005A	07/25/2011 07:30	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111990026A	07/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111990002A	07/18/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708001	07/27/2011 14:45	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111995708003	07/25/2011 19:57	John P Hook	1
01650	Calcium	SW-846 6010B	1	111995708003	07/25/2011 19:57	John P Hook	1
01654	Iron	SW-846 6010B	1	111995708003	07/25/2011 19:57	John P Hook	1
01656	Lithium	SW-846 6010B	1	111995708003	07/25/2011 19:57	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111995708003	07/25/2011 19:57	John P Hook	1
06958	Manganese	SW-846 6010B	1	111995708003	07/25/2011 19:57	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111995708003	07/25/2011 19:57	John P Hook	1
01662	Potassium	SW-846 6010B	1	111995708003	07/25/2011 19:57	John P Hook	1
01667	Sodium	SW-846 6010B	1	111995708003	07/25/2011 19:57	John P Hook	1
07968	Strontium	SW-846 6010B	1	111995708003	07/25/2011 19:57	John P Hook	1
06969	Tin	SW-846 6010B	1	111995708003	07/25/2011 19:57	John P Hook	1
06970	Titanium	SW-846 6010B	1	112075708001	07/27/2011 14:45	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111995708003	07/25/2011 19:57	John P Hook	1
06124	Antimony	SW-846 6020	1	111991026002A	07/25/2011 08:00	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-048-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA6-SS-0.0-0.5

LLI Sample # SW 6345435
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 15:46

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0002 SDG#: DE200-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	111991026002A	07/25/2011 08:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111991026002D	07/25/2011 08:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111991026002A	07/25/2011 08:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111991026002A	07/25/2011 08:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111991026002A	07/25/2011 08:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111991026002A	07/25/2011 08:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111991026002A	07/25/2011 08:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111991026002A	07/25/2011 08:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111991026002C	07/25/2011 08:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111991026002A	07/25/2011 08:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111991026002B	07/25/2011 08:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111991026002A	07/25/2011 08:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111991026002A	07/25/2011 08:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111991026002A	07/25/2011 08:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111991026002A	07/25/2011 08:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111995711003	07/19/2011 07:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708003	07/18/2011 22:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112075708001	07/26/2011 22:49	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026002	07/18/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711003	07/19/2011 02:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621202A	07/28/2011 03:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11207621202A	07/28/2011 03:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206206201A	07/27/2011 04:41	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11208243202A	07/28/2011 13:11	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11209102201A	07/28/2011 21:02	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621202A	07/26/2011 08:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206206201A	07/25/2011 15:20	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	3	11209102201A	07/28/2011 17:15	Venia B McFadden	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039404A	07/25/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243202A	07/27/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-049-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA6-SS-0.0-0.5

LLI Sample # SW 6345436
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:26

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0003 SDG#: DE200-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	703		16.5	33.0		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 168 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank or the re-analysis of the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-049-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA6-SS-0.0-0.5

LLI Sample # SW 6345436
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:26

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0003 SDG#: DE200-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7		1
10138	Anthracene	120-12-7	0.33	U	0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.68	J	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.91	J	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.6	J	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.82	J	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	2.2		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	7.2	J	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	1.6	J	0.33	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Fluoranthene	206-44-0	2.1		0.67	1.7		1
10138	Fluorene	86-73-7	0.73	J	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	8.6	J	6.0	18		1
10138	Phenanthrene	85-01-8	0.97	J	0.67	1.7		1
10138	Pyrene	129-00-0	1.6	J	0.67	1.7		1
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-049-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA6-SS-0.0-0.5

LLI Sample # SW 6345436
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:26

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0003 SDG#: DE200-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	60	U	60	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	50	U	50	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	9.1	U	9.1	9.1		1
10401	Dicamba	1918-00-9	0.68	J	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.3	U	1.3	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.086	J	0.075	0.17		1

Reporting limits were raised for 2,4-DP and 2,4-DB due to interference from the

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-049-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA6-SS-0.0-0.5

LLI Sample # SW 6345436
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:26

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0003 SDG#: DE200-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
sample matrix.								
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	800	J	600	1,500		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.13	J	0.067	0.34		1
01363	p,p-DDT	50-29-3	0.21	J	0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.								
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	0.65	J	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	280	J	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-049-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA6-SS-0.0-0.5

LLI Sample # SW 6345436
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:26

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0003 SDG#: DE200-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	1.3		0.40	1.2		1
10199	EFH (C21-C30)	n.a.	4.6		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	19		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,700		6.04	20.0		1
07914	Boron	7440-42-8	2.57	J	0.359	4.99		1
01650	Calcium	7440-70-2	2,190		2.49	20.0		1
01654	Iron	7439-89-6	18,200		2.60	20.0		1
01656	Lithium	7439-93-2	26.4		0.62	2.0		1
01657	Magnesium	7439-95-4	3,430		0.439	9.98		1
06958	Manganese	7439-96-5	296		0.0359	0.499		1
10145	Phosphorus	7723-14-0	464		0.349	9.98		1
01662	Potassium	7440-09-7	4,030		11.3	49.9		1
01667	Sodium	7440-23-5	67.0	J	5.94	99.8		1
07968	Strontium	7440-24-6	22.5		0.0249	0.499		1
06969	Tin	7440-31-5	2.68	J	0.319	9.98		1
06970	Titanium	7440-32-6	970		0.0708	0.998		1
10146	Zirconium	7440-67-7	0.670	J	0.459	4.99		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.127	J	0.0731	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.10		0.0790	0.395		2
06126	Barium	7440-39-3	114		0.105	0.395		2
06127	Beryllium	7440-41-7	0.681		0.0158	0.0988		2
06128	Cadmium	7440-43-9	0.129		0.0435	0.0988		2
06131	Chromium	7440-47-3	13.7		0.119	0.395		2
06132	Cobalt	7440-48-4	5.40		0.0198	0.0988		2
06133	Copper	7440-50-8	8.51		0.0790	0.395		2
06135	Lead	7439-92-1	9.41		0.0101	0.198		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-049-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA6-SS-0.0-0.5

LLI Sample # SW 6345436
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:26

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0003 SDG#: DE200-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg		mg/kg	mg/kg	mg/kg	
06138	Molybdenum	7439-98-7	0.804		0.0494	0.0988		2
06139	Nickel	7440-02-0	11.0		0.0988	0.395		2
06141	Selenium	7782-49-2	0.132	J	0.0573	0.395		2
06142	Silver	7440-22-4	0.0567	J	0.0140	0.0988		2
06145	Thallium	7440-28-0	0.302		0.0296	0.0988		2
06148	Vanadium	7440-62-2	28.1		0.0217	0.0988		2
06149	Zinc	7440-66-6	70.2		0.553	2.96		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0069	U	0.0069	0.0986		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.80	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.2		0.80	1.5		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.24		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	0.78		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-049-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA6-SS-0.0-0.5

LLI Sample # SW 6345436
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:26

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0003 SDG#: DE200-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11207SLC026	08/09/2011 17:31	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11202SLA026	08/02/2011 03:36	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11202SLC026	07/29/2011 00:42	Brian K Graham	1
11630	NDMA Soil Microwave	SW-846 3546	1	11207SLC026	07/27/2011 07:35	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11202SLC026	07/23/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11202SLA026	07/22/2011 06:00	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	112070007A	07/28/2011 09:27	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111970008A	07/19/2011 01:57	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112030003A	07/25/2011 15:43	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112020040A	08/16/2011 01:31	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060004A	07/26/2011 19:10	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112020040A	07/22/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060004A	07/25/2011 14:30	Wanda F Oswald	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112030003A	07/23/2011 08:25	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111970008A	07/17/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112070007A	07/26/2011 15:15	Kelli M Barto	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111990026A	07/21/2011 00:44	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111990002A	07/19/2011 09:03	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112030005A	07/25/2011 22:30	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112040003A	07/26/2011 03:59	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112040003A	07/25/2011 02:45	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	112030005A	07/25/2011 07:30	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111990026A	07/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111990002A	07/18/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708001	07/27/2011 14:56	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111995708003	07/25/2011 20:01	John P Hook	1
01650	Calcium	SW-846 6010B	1	111995708003	07/25/2011 20:01	John P Hook	1
01654	Iron	SW-846 6010B	1	111995708003	07/25/2011 20:01	John P Hook	1
01656	Lithium	SW-846 6010B	1	111995708003	07/25/2011 20:01	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111995708003	07/25/2011 20:01	John P Hook	1
06958	Manganese	SW-846 6010B	1	111995708003	07/25/2011 20:01	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111995708003	07/25/2011 20:01	John P Hook	1
01662	Potassium	SW-846 6010B	1	111995708003	07/25/2011 20:01	John P Hook	1
01667	Sodium	SW-846 6010B	1	111995708003	07/25/2011 20:01	John P Hook	1
07968	Strontium	SW-846 6010B	1	111995708003	07/25/2011 20:01	John P Hook	1
06969	Tin	SW-846 6010B	1	111995708003	07/25/2011 20:01	John P Hook	1
06970	Titanium	SW-846 6010B	1	112075708001	07/27/2011 14:56	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111995708003	07/25/2011 20:01	John P Hook	1
06124	Antimony	SW-846 6020	1	111991026002A	07/25/2011 08:09	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA6-SS-0.0-0.5

LLI Sample # SW 6345436
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:26

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0003 SDG#: DE200-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	111991026002A	07/25/2011 08:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111991026002D	07/25/2011 08:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111991026002A	07/25/2011 08:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111991026002A	07/26/2011 01:02	David K Beck	2
06131	Chromium	SW-846 6020	1	111991026002A	07/25/2011 08:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111991026002A	07/25/2011 08:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111991026002A	07/25/2011 08:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111991026002A	07/25/2011 08:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111991026002C	07/25/2011 08:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111991026002A	07/25/2011 08:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111991026002B	07/25/2011 08:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111991026002A	07/25/2011 08:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111991026002A	07/25/2011 08:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111991026002A	07/25/2011 08:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111991026002A	07/25/2011 08:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111995711003	07/19/2011 07:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708003	07/18/2011 22:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112075708001	07/26/2011 22:49	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026002	07/18/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711003	07/19/2011 02:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621202A	07/28/2011 03:48	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11207621202A	07/28/2011 03:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206206201A	07/27/2011 05:27	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243202A	07/28/2011 13:18	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11209102201A	07/28/2011 21:03	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621202A	07/26/2011 08:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206206201A	07/25/2011 15:20	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	3	11209102201A	07/28/2011 17:15	Venia B McFadden	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039404A	07/25/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243202A	07/27/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA6-SS-0.0-0.5

LLI Sample # SW 6345437
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:27

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0004 SDG#: DE200-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA6-SS-0.0-0.5

LLI Sample # SW 6345437
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:27

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0004 SDG#: DE200-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.89	J	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	2.4		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	3.4		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	J	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	2.4		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	2.9		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.94	J	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.69	J	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	1.7	J	0.68	1.7		1
10138	Pyrene	129-00-0	1.7		0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	2.0	U	2.0	2.0		1
10401	Dicamba	1918-00-9	1.4		0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1

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Sample Description: SL-050-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA6-SS-0.0-0.5

LLI Sample # SW 6345437
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:27

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0004 SDG#: DE200-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	Reporting limits were raised for 2,4-DB due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.53		0.067	0.35		1
01363	p,p-DDT	50-29-3	0.84		0.067	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.11	U	0.11	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.27	U	0.27	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.080	J	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.12	U	0.12	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.12	U	0.12	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	7.2		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	2.3		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1

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Sample Description: SL-050-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA6-SS-0.0-0.5

LLI Sample # SW 6345437
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:27

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0004 SDG#: DE200-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	J	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	4.0		0.41	1.2		1
10199	EFH (C21-C30)	n.a.	19		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	38		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.64	J	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,700		6.15	20.3		1
07914	Boron	7440-42-8	1.73	J	0.356	4.94		1
01650	Calcium	7440-70-2	2,130		2.47	19.8		1
01654	Iron	7439-89-6	15,800		2.58	19.8		1
01656	Lithium	7439-93-2	23.2		0.61	2.0		1
01657	Magnesium	7439-95-4	3,270		0.435	9.88		1
06958	Manganese	7439-96-5	228		0.0356	0.494		1
10145	Phosphorus	7723-14-0	297		0.346	9.88		1
01662	Potassium	7440-09-7	2,870		11.2	49.4		1
01667	Sodium	7440-23-5	62.4	J	5.88	98.8		1
07968	Strontium	7440-24-6	13.5		0.0247	0.494		1
06969	Tin	7440-31-5	2.37	J	0.316	9.88		1
06970	Titanium	7440-32-6	857		0.0722	1.02		1
10146	Zirconium	7440-67-7	1.92	J	0.454	4.94		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.111	J	0.0745	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.09		0.0806	0.403		2
06126	Barium	7440-39-3	69.5		0.107	0.403		2
06127	Beryllium	7440-41-7	0.506		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.137		0.0443	0.101		2

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Analysis Report

Sample Description: SL-050-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA6-SS-0.0-0.5

LLI Sample # SW 6345437
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:27

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0004 SDG#: DE200-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	14.1	0.121	0.403		2
06132	Cobalt	7440-48-4	4.65	0.0201	0.101		2
06133	Copper	7440-50-8	6.96	0.0806	0.403		2
06135	Lead	7439-92-1	7.09	0.0103	0.201		2
06138	Molybdenum	7439-98-7	0.520	0.0504	0.101		2
06139	Nickel	7440-02-0	8.77	0.101	0.403		2
06141	Selenium	7782-49-2	0.179 J	0.0584	0.403		2
06142	Silver	7440-22-4	0.0328 J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.270	0.0302	0.101		2
06148	Vanadium	7440-62-2	26.6	0.0222	0.101		2
06149	Zinc	7440-66-6	109	0.564	3.02		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0135 J	0.0068	0.0964		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82 U	0.82	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2 U	9.2	30.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42 J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.48	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Sample Description: SL-050-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA6-SS-0.0-0.5

LLI Sample # SW 6345437
LLI Group # 1256494
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E0004 SDG#: DE200-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11202SLA026	08/02/2011 04:01	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11202SLC026	07/29/2011 01:13	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11202SLC026	07/23/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11202SLA026	07/22/2011 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112030003A	07/25/2011 16:11	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112020040A	08/16/2011 01:46	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112020040A	08/17/2011 03:02	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060004A	07/26/2011 19:28	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112020040A	07/22/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060004A	07/25/2011 14:30	Wanda F Oswald	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112030003A	07/23/2011 08:25	Karen L Beyer	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111990026A	07/21/2011 00:59	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111990002A	07/19/2011 09:16	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112030005A	07/25/2011 23:14	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112040003A	07/26/2011 06:30	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112040003A	07/25/2011 02:45	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	112030005A	07/25/2011 07:30	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111990026A	07/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111990002A	07/18/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708001	07/27/2011 15:00	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111995708003	07/25/2011 20:06	John P Hook	1
01650	Calcium	SW-846 6010B	1	111995708003	07/25/2011 20:06	John P Hook	1
01654	Iron	SW-846 6010B	1	111995708003	07/25/2011 20:06	John P Hook	1
01656	Lithium	SW-846 6010B	1	111995708003	07/25/2011 20:06	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111995708003	07/25/2011 20:06	John P Hook	1
06958	Manganese	SW-846 6010B	1	111995708003	07/25/2011 20:06	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111995708003	07/25/2011 20:06	John P Hook	1
01662	Potassium	SW-846 6010B	1	111995708003	07/25/2011 20:06	John P Hook	1
01667	Sodium	SW-846 6010B	1	111995708003	07/25/2011 20:06	John P Hook	1
07968	Strontium	SW-846 6010B	1	111995708003	07/25/2011 20:06	John P Hook	1
06969	Tin	SW-846 6010B	1	111995708003	07/25/2011 20:06	John P Hook	1
06970	Titanium	SW-846 6010B	1	112075708001	07/27/2011 15:00	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111995708003	07/25/2011 20:06	John P Hook	1
06124	Antimony	SW-846 6020	1	111991026002A	07/25/2011 08:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111991026002A	07/25/2011 08:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111991026002D	07/25/2011 08:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111991026002A	07/25/2011 08:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111991026002A	07/25/2011 08:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111991026002A	07/25/2011 08:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111991026002A	07/25/2011 08:12	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA6-SS-0.0-0.5

LLI Sample # SW 6345437
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:27

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0004 SDG#: DE200-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111991026002A	07/25/2011 08:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111991026002A	07/25/2011 08:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111991026002C	07/25/2011 08:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111991026002A	07/25/2011 08:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111991026002B	07/25/2011 08:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111991026002A	07/25/2011 08:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111991026002A	07/25/2011 08:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111991026002A	07/25/2011 08:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111991026002A	07/25/2011 08:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111995711003	07/19/2011 07:41	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708003	07/18/2011 22:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112075708001	07/26/2011 22:49	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026002	07/18/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711003	07/19/2011 02:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621202A	07/28/2011 18:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206206201A	07/27/2011 05:50	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243202A	07/28/2011 13:32	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621202A	07/26/2011 08:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206206201A	07/25/2011 15:20	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039404A	07/25/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243202A	07/27/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11199162401B	07/18/2011 20:06	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-051-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA6-SS-0.0-0.5

LLI Sample # SW 6345438
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:07

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0005 SDG#: DE200-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-051-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA6-SS-0.0-0.5

LLI Sample # SW 6345438
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:07

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0005 SDG#: DE200-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.68	U	0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	J	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	0.54	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	0.68	U	0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	8.8	J	6.1	18		1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7		1
10138	Pyrene	129-00-0	0.68	U	0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	1.0	U	1.0	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	78	U	78	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.23		0.084	0.17		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-051-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA6-SS-0.0-0.5

LLI Sample # SW 6345438
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:07

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0005 SDG#: DE200-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	Reporting limits were raised for 2,4-DB due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	3.7		0.82	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	1.1		0.067	0.35		1
01363	p,p-DDT	50-29-3	2.4		0.067	0.35		1
01363	Delta BHC	319-86-8	0.072	U	0.072	0.17		1
01363	Dieldrin	60-57-1	0.11	U	0.11	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.47	U	0.47	0.47		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.80	U	0.80	0.80		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.10	J	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.30	U	0.30	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	0.96	J	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-051-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA6-SS-0.0-0.5

LLI Sample # SW 6345438
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:07

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0005 SDG#: DE200-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C15-C20)	n.a.	8.4		2.0	6.1		5
10199	EFH (C21-C30)	n.a.	54		2.0	6.1		5
10199	EFH (C30 - C40)	n.a.	150		2.0	6.1		5
10199	EFH (C8-C11)	n.a.	4.1	J	2.0	6.1		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,400		6.06	20.0		1
07914	Boron	7440-42-8	2.60	J	0.361	5.01		1
01650	Calcium	7440-70-2	2,330		2.50	20.0		1
01654	Iron	7439-89-6	15,900		2.61	20.0		1
01656	Lithium	7439-93-2	19.9		0.62	2.0		1
01657	Magnesium	7439-95-4	3,410		0.441	10.0		1
06958	Manganese	7439-96-5	247		0.0361	0.501		1
10145	Phosphorus	7723-14-0	363		0.350	10.0		1
01662	Potassium	7440-09-7	3,450		11.3	50.1		1
01667	Sodium	7440-23-5	51.7	J	5.96	100		1
07968	Strontium	7440-24-6	16.4		0.0250	0.501		1
06969	Tin	7440-31-5	2.55	J	0.320	10.0		1
06970	Titanium	7440-32-6	959		0.0711	1.00		1
10146	Zirconium	7440-67-7	1.65	J	0.461	5.01		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.124	J	0.0741	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.45		0.0801	0.401		2
06126	Barium	7440-39-3	79.9		0.106	0.401		2
06127	Beryllium	7440-41-7	0.571		0.0160	0.100		2
06128	Cadmium	7440-43-9	0.154		0.0441	0.100		2

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Sample Description: SL-051-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA6-SS-0.0-0.5

LLI Sample # SW 6345438
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:07

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0005 SDG#: DE200-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	15.8	0.120	0.401		2
06132	Cobalt	7440-48-4	5.24	0.0200	0.100		2
06133	Copper	7440-50-8	11.2	0.0801	0.401		2
06135	Lead	7439-92-1	13.8	0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.723	0.0501	0.100		2
06139	Nickel	7440-02-0	11.0	0.100	0.401		2
06141	Selenium	7782-49-2	0.220 J	0.0581	0.401		2
06142	Silver	7440-22-4	0.0469 J	0.0142	0.100		2
06145	Thallium	7440-28-0	0.316	0.0300	0.100		2
06148	Vanadium	7440-62-2	29.8	0.0220	0.100		2
06149	Zinc	7440-66-6	67.2	0.561	3.00		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0153 J	0.0070	0.0990		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81 U	0.81	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2 U	9.2	30.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20 U	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.15	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-051-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA6-SS-0.0-0.5

LLI Sample # SW 6345438
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:07

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0005 SDG#: DE200-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11202SLA026	08/02/2011	04:26	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11202SLC026	07/29/2011	01:45	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11202SLC026	07/23/2011	07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11202SLA026	07/22/2011	06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112030003A	07/25/2011	16:38	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112020040A	08/16/2011	02:14	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060004A	07/26/2011	19:47	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112020040A	07/22/2011	18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060004A	07/25/2011	14:30	Wanda F Oswald	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112030003A	07/23/2011	08:25	Karen L Beyer	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111990026A	07/21/2011	01:13	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111990002A	07/19/2011	09:29	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112030005A	07/26/2011	05:55	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112040003A	07/26/2011	09:26	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112040003A	07/25/2011	02:45	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	112030005A	07/25/2011	07:30	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111990026A	07/19/2011	19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111990002A	07/18/2011	12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708001	07/27/2011	15:03	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111995708003	07/25/2011	20:10	John P Hook	1
01650	Calcium	SW-846 6010B	1	111995708003	07/25/2011	20:10	John P Hook	1
01654	Iron	SW-846 6010B	1	111995708003	07/25/2011	20:10	John P Hook	1
01656	Lithium	SW-846 6010B	1	111995708003	07/25/2011	20:10	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111995708003	07/25/2011	20:10	John P Hook	1
06958	Manganese	SW-846 6010B	1	111995708003	07/25/2011	20:10	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111995708003	07/25/2011	20:10	John P Hook	1
01662	Potassium	SW-846 6010B	1	111995708003	07/25/2011	20:10	John P Hook	1
01667	Sodium	SW-846 6010B	1	111995708003	07/25/2011	20:10	John P Hook	1
07968	Strontium	SW-846 6010B	1	111995708003	07/25/2011	20:10	John P Hook	1
06969	Tin	SW-846 6010B	1	111995708003	07/25/2011	20:10	John P Hook	1
06970	Titanium	SW-846 6010B	1	112075708001	07/27/2011	15:03	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111995708003	07/25/2011	20:10	John P Hook	1
06124	Antimony	SW-846 6020	1	111991026002A	07/25/2011	08:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111991026002A	07/25/2011	08:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111991026002D	07/25/2011	08:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111991026002A	07/25/2011	08:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111991026002A	07/25/2011	08:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111991026002A	07/25/2011	08:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111991026002A	07/25/2011	08:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111991026002A	07/25/2011	08:15	Choon Y Tian	2

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Sample Description: SL-051-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA6-SS-0.0-0.5

LLI Sample # SW 6345438
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:07

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0005 SDG#: DE200-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	111991026002A	07/25/2011 08:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111991026002C	07/25/2011 08:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111991026002A	07/25/2011 08:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111991026002B	07/25/2011 08:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111991026002A	07/25/2011 08:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111991026002A	07/25/2011 08:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111991026002A	07/25/2011 08:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111991026002A	07/25/2011 08:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111995711003	07/19/2011 07:42	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708003	07/18/2011 22:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112075708001	07/26/2011 22:49	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026002	07/18/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711003	07/19/2011 02:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621202A	07/28/2011 18:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206206201A	07/27/2011 06:13	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243202A	07/28/2011 13:52	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621202A	07/26/2011 08:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206206201A	07/25/2011 15:20	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039404A	07/25/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243202A	07/27/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11199162401B	07/18/2011 20:06	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-052-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA6-SS-0.0-0.5

LLI Sample # SW 6345439
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:17

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0006 SDG#: DE200-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	616		168	335		10
	Reporting limits were raised due to interference from the sample matrix.							
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 168 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank or the re-analysis of the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1

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Sample Description: SL-052-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA6-SS-0.0-0.5

LLI Sample # SW 6345439
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:17

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0006 SDG#: DE200-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.74	J	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.5	J	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	J	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	1.6	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	6.1	18		1
10138	Fluoranthene	206-44-0	0.67	U	0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	8.2	J	6.1	18		1
10138	Phenanthrene	85-01-8	0.67	U	0.67	1.7		1
10138	Pyrene	129-00-0	0.67	U	0.67	1.7		1

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Sample Description: SL-052-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA6-SS-0.0-0.5

LLI Sample # SW 6345439
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:17

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0006 SDG#: DE200-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	2.1		0.63	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	170	U	170	250		1
10401	2,4,5-T	93-76-5	0.091	J	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

Reporting limits were raised for MCPP due to interference from the sample

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-052-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA6-SS-0.0-0.5

LLI Sample # SW 6345439
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:17

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0006 SDG#: DE200-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
matrix.								
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.066	J	0.034	0.17		1
01363	Chlordane	57-74-9	4.0	U	4.0	17		5
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	3.1		0.33	1.7		5
01363	p,p-DDT	50-29-3	16		0.67	3.4		10
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	3.3		0.33	1.7		5
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	5.7	U	5.7	5.7		5
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	1.2	U	1.2	1.2		1
01363	Endrin Ketone	53494-70-5	0.16	U	0.16	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	1.0	U	1.0	1.0		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17		5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17		5
10225	Aroclor 5460	11126-42-4	5.1	U	5.1	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.6		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6		5
10225	PCB-1254	11097-69-1	20		1.7	8.6		5
10225	PCB-1260	11096-82-5	2.0	U	2.0	8.6		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1

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Sample Description: SL-052-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA6-SS-0.0-0.5

LLI Sample # SW 6345439
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:17

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0006 SDG#: DE200-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	1.4		0.40	1.2		1
10199	EFH (C21-C30)	n.a.	13		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	35		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,200		5.89	19.5		1
07914	Boron	7440-42-8	1.87	J	0.354	4.91		1
01650	Calcium	7440-70-2	2,180		2.46	19.7		1
01654	Iron	7439-89-6	19,100		2.56	19.7		1
01656	Lithium	7439-93-2	22.1		0.61	2.0		1
01657	Magnesium	7439-95-4	3,980		0.432	9.83		1
06958	Manganese	7439-96-5	245		0.0354	0.491		1
10145	Phosphorus	7723-14-0	334		0.344	9.83		1
01662	Potassium	7440-09-7	3,330		11.1	49.1		1
01667	Sodium	7440-23-5	60.1	J	5.85	98.3		1
07968	Strontium	7440-24-6	12.6		0.0246	0.491		1
06969	Tin	7440-31-5	2.60	J	0.314	9.83		1
06970	Titanium	7440-32-6	949		0.0691	0.973		1
10146	Zirconium	7440-67-7	2.00	J	0.452	4.91		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.137	J	0.0742	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.25		0.0802	0.401		2
06126	Barium	7440-39-3	105		0.106	0.401		2
06127	Beryllium	7440-41-7	0.773		0.0160	0.100		2
06128	Cadmium	7440-43-9	0.139		0.0441	0.100		2
06131	Chromium	7440-47-3	20.9		0.120	0.401		2
06132	Cobalt	7440-48-4	7.40		0.0200	0.100		2
06133	Copper	7440-50-8	10.3		0.0802	0.401		2

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Sample Description: SL-052-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA6-SS-0.0-0.5

LLI Sample # SW 6345439
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:17

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0006 SDG#: DE200-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	11.0		0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.670		0.0501	0.100		2
06139	Nickel	7440-02-0	14.1		0.100	0.401		2
06141	Selenium	7782-49-2	0.205	J	0.0581	0.401		2
06142	Silver	7440-22-4	0.0921	J	0.0142	0.100		2
06145	Thallium	7440-28-0	0.367		0.0301	0.100		2
06148	Vanadium	7440-62-2	39.4		0.0220	0.100		2
06149	Zinc	7440-66-6	80.0		0.561	3.01		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0147	J	0.0070	0.0993		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.3		0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.52	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.07		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-052-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA6-SS-0.0-0.5

LLI Sample # SW 6345439
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:17

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Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0006 SDG#: DE200-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11207SLC026	08/09/2011 17:50	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11202SLA026	08/02/2011 04:51	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11202SLC026	07/29/2011 03:10	Brian K Graham	1
11630	NDMA Soil Microwave	SW-846 3546	1	11207SLC026	07/27/2011 07:35	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11202SLC026	07/23/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11202SLA026	07/22/2011 06:00	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	112070007A	07/28/2011 10:10	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111970008A	07/19/2011 02:06	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112030003A	07/25/2011 17:06	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112020040A	08/16/2011 02:28	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112020040A	08/16/2011 02:42	Jamie L Brillhart	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112020040A	08/17/2011 03:16	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060004A	07/26/2011 20:06	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112020040A	07/22/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060004A	07/25/2011 14:30	Wanda F Oswald	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112030003A	07/23/2011 08:25	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111970008A	07/17/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112070007A	07/26/2011 15:15	Kelli M Barto	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111990026A	07/21/2011 01:28	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111990002A	07/19/2011 09:42	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112030005A	07/26/2011 06:39	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112040003A	07/26/2011 07:20	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112040003A	07/25/2011 02:45	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	112030005A	07/25/2011 07:30	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111990026A	07/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111990002A	07/18/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708001	07/27/2011 15:07	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111995708003	07/25/2011 20:14	John P Hook	1
01650	Calcium	SW-846 6010B	1	111995708003	07/25/2011 20:14	John P Hook	1
01654	Iron	SW-846 6010B	1	111995708003	07/25/2011 20:14	John P Hook	1
01656	Lithium	SW-846 6010B	1	111995708003	07/25/2011 20:14	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111995708003	07/25/2011 20:14	John P Hook	1
06958	Manganese	SW-846 6010B	1	111995708003	07/25/2011 20:14	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111995708003	07/25/2011 20:14	John P Hook	1
01662	Potassium	SW-846 6010B	1	111995708003	07/25/2011 20:14	John P Hook	1
01667	Sodium	SW-846 6010B	1	111995708003	07/25/2011 20:14	John P Hook	1
07968	Strontium	SW-846 6010B	1	111995708003	07/25/2011 20:14	John P Hook	1
06969	Tin	SW-846 6010B	1	111995708003	07/25/2011 20:14	John P Hook	1
06970	Titanium	SW-846 6010B	1	112075708001	07/27/2011 15:07	Eric L Eby	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-052-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA6-SS-0.0-0.5

LLI Sample # SW 6345439
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:17

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0006 SDG#: DE200-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111995708003	07/25/2011 20:14	John P Hook	1
06124	Antimony	SW-846 6020	1	111991026002A	07/25/2011 08:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111991026002A	07/25/2011 08:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111991026002D	07/25/2011 08:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111991026002A	07/25/2011 08:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111991026002A	07/25/2011 08:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111991026002A	07/25/2011 08:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111991026002A	07/25/2011 08:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111991026002A	07/25/2011 08:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111991026002A	07/25/2011 08:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111991026002C	07/25/2011 08:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111991026002A	07/25/2011 08:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111991026002B	07/25/2011 08:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111991026002A	07/25/2011 08:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111991026002A	07/25/2011 08:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111991026002A	07/25/2011 08:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111991026002A	07/25/2011 08:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111995711003	07/19/2011 07:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708003	07/18/2011 22:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112075708001	07/26/2011 22:49	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026002	07/18/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711003	07/19/2011 02:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621202A	07/28/2011 04:03	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11207621202A	07/28/2011 04:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206206201A	07/27/2011 06:36	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11208243202A	07/28/2011 14:12	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11209102201A	07/28/2011 21:04	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621202A	07/26/2011 08:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206206201A	07/25/2011 15:20	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	3	11209102201A	07/28/2011 17:15	Venia B McFadden	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039404A	07/25/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243202A	07/27/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-053-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA6-SS-0.0-0.5

LLI Sample # SW 6345440
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:52

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0007 SDG#: DE200-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	432		16.8	33.5		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 168 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank or the re-analysis of the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-053-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA6-SS-0.0-0.5

LLI Sample # SW 6345440
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:52

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0007 SDG#: DE200-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.3	U	3.3	8.3		1
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.3		1
10138	Anthracene	120-12-7	1.7	U	1.7	8.3		1
10138	Benzo(a)anthracene	56-55-3	3.3	U	3.3	8.3		1
10138	Benzo(a)pyrene	50-32-8	3.3	U	3.3	8.3		1
10138	Benzo(b)fluoranthene	205-99-2	3.3	U	3.3	8.3		1
10138	Benzo(g,h,i)perylene	191-24-2	3.3	U	3.3	8.3		1
10138	Benzo(k)fluoranthene	207-08-9	3.3	U	3.3	8.3		1
10138	Butylbenzylphthalate	85-68-7	30	U	30	90		1
10138	Di-n-butylphthalate	84-74-2	30	U	30	90		1
10138	Chrysene	218-01-9	2.4	J	1.7	8.3		1
10138	Dibenz(a,h)anthracene	53-70-3	3.3	U	3.3	8.3		1
10138	Diethylphthalate	84-66-2	30	U	30	90		1
10138	Dimethylphthalate	131-11-3	30	U	30	90		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	30	U	30	90		1
10138	Fluoranthene	206-44-0	3.3	U	3.3	8.3		1
10138	Fluorene	86-73-7	3.3	U	3.3	8.3		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.3	U	3.3	8.3		1
10138	1-Methylnaphthalene	90-12-0	3.3	U	3.3	8.3		1
10138	2-Methylnaphthalene	91-57-6	3.3	U	3.3	8.3		1
10138	Naphthalene	91-20-3	3.3	U	3.3	8.3		1
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.3		1
10138	Di-n-octylphthalate	117-84-0	30	U	30	90		1
10138	Phenanthrene	85-01-8	3.3	U	3.3	8.3		1
10138	Pyrene	129-00-0	3.3	U	3.3	8.3		1
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-053-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA6-SS-0.0-0.5

LLI Sample # SW 6345440
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:52

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0007 SDG#: DE200-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	4.3		0.63	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	490		77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

MCPA was detected in the method blank at 190 ug/kg and in the sample at 480

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Sample Description: SL-053-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA6-SS-0.0-0.5

LLI Sample # SW 6345440
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:52

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0007 SDG#: DE200-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	ug/kg. The sample was reextracted outside the method hold time. The blank and the sample associated with the reextraction did not have a MCPA detection. The original data was reported.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.5		1
01363	p,p-DDD	72-54-8	0.14	U	0.14	0.35		1
01363	p,p-DDE	72-55-9	0.35		0.067	0.35		1
01363	p,p-DDT	50-29-3	0.60		0.067	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.11	U	0.11	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.12	U	0.12	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	1.3	J	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1

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Sample Description: SL-053-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA6-SS-0.0-0.5

LLI Sample # SW 6345440
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:52

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0007 SDG#: DE200-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	3.7		0.40	1.2		1
10199	EFH (C21-C30)	n.a.	13		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	39		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	1.7		0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,900		6.02	19.9		1
07914	Boron	7440-42-8	2.79	J	0.362	5.03		1
01650	Calcium	7440-70-2	2,830		2.51	20.1		1
01654	Iron	7439-89-6	18,100		2.62	20.1		1
01656	Lithium	7439-93-2	25.1		0.62	2.0		1
01657	Magnesium	7439-95-4	4,090		0.442	10.1		1
06958	Manganese	7439-96-5	280		0.0362	0.503		1
10145	Phosphorus	7723-14-0	435		0.352	10.1		1
01662	Potassium	7440-09-7	3,690		11.4	50.3		1
01667	Sodium	7440-23-5	69.3	J	5.98	101		1
07968	Strontium	7440-24-6	17.1		0.0251	0.503		1
06969	Tin	7440-31-5	2.34	J	0.322	10.1		1
06970	Titanium	7440-32-6	913		0.0707	0.995		1
10146	Zirconium	7440-67-7	1.96	J	0.462	5.03		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.118	J	0.0744	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.55		0.0804	0.402		2
06126	Barium	7440-39-3	102		0.107	0.402		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-053-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA6-SS-0.0-0.5

LLI Sample # SW 6345440
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:52

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0007 SDG#: DE200-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.648		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.124		0.0442	0.101		2
06131	Chromium	7440-47-3	17.8		0.121	0.402		2
06132	Cobalt	7440-48-4	5.93		0.0201	0.101		2
06133	Copper	7440-50-8	10.7		0.0804	0.402		2
06135	Lead	7439-92-1	9.42		0.0103	0.201		2
06138	Molybdenum	7439-98-7	0.659		0.0503	0.101		2
06139	Nickel	7440-02-0	12.1		0.101	0.402		2
06141	Selenium	7782-49-2	0.176	J	0.0583	0.402		2
06142	Silver	7440-22-4	0.0442	J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.312		0.0302	0.101		2
06148	Vanadium	7440-62-2	34.3		0.0221	0.101		2
06149	Zinc	7440-66-6	75.1		0.563	3.02		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0093	J	0.0070	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.81	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.37		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-053-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA6-SS-0.0-0.5

LLI Sample # SW 6345440
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:52

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0007 SDG#: DE200-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11207SLC026	08/09/2011 18:09	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11202SLA026	08/02/2011 05:17	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11202SLC026	07/29/2011 03:42	Brian K Graham	1
11630	NDMA Soil Microwave	SW-846 3546	1	11207SLC026	07/27/2011 07:35	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11202SLC026	07/23/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11202SLA026	07/22/2011 06:00	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	112070007A	07/28/2011 10:52	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111970008A	07/19/2011 02:16	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112030003A	07/25/2011 18:29	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112020040A	08/16/2011 02:57	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112020040A	08/17/2011 04:28	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060004A	07/26/2011 20:24	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112020040A	07/22/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060004A	07/25/2011 14:30	Wanda F Oswald	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112030003A	07/23/2011 08:25	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111970008A	07/17/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112070007A	07/26/2011 15:15	Kelli M Barto	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111990026A	07/21/2011 01:43	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111990002A	07/19/2011 10:33	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112030005A	07/25/2011 23:59	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112040003A	07/26/2011 05:15	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112040003A	07/25/2011 02:45	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	112030005A	07/25/2011 07:30	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111990026A	07/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111990002A	07/18/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708001	07/27/2011 15:11	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111995708003	07/25/2011 20:19	John P Hook	1
01650	Calcium	SW-846 6010B	1	111995708003	07/25/2011 20:19	John P Hook	1
01654	Iron	SW-846 6010B	1	111995708003	07/25/2011 20:19	John P Hook	1
01656	Lithium	SW-846 6010B	1	111995708003	07/25/2011 20:19	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111995708003	07/25/2011 20:19	John P Hook	1
06958	Manganese	SW-846 6010B	1	111995708003	07/25/2011 20:19	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111995708003	07/25/2011 20:19	John P Hook	1
01662	Potassium	SW-846 6010B	1	111995708003	07/25/2011 20:19	John P Hook	1
01667	Sodium	SW-846 6010B	1	111995708003	07/25/2011 20:19	John P Hook	1
07968	Strontium	SW-846 6010B	1	111995708003	07/25/2011 20:19	John P Hook	1
06969	Tin	SW-846 6010B	1	111995708003	07/25/2011 20:19	John P Hook	1
06970	Titanium	SW-846 6010B	1	112075708001	07/27/2011 15:11	Eric L Eby	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-053-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA6-SS-0.0-0.5

LLI Sample # SW 6345440
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:52

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0007 SDG#: DE200-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111995708003	07/25/2011 20:19	John P Hook	1
06124	Antimony	SW-846 6020	1	111991026002A	07/25/2011 08:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111991026002A	07/25/2011 08:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111991026002D	07/25/2011 08:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111991026002A	07/25/2011 08:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111991026002A	07/25/2011 08:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111991026002A	07/25/2011 08:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111991026002A	07/25/2011 08:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111991026002A	07/25/2011 08:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111991026002A	07/25/2011 08:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111991026002C	07/25/2011 08:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111991026002A	07/25/2011 08:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111991026002B	07/25/2011 08:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111991026002A	07/25/2011 08:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111991026002A	07/25/2011 08:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111991026002A	07/25/2011 08:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111991026002A	07/25/2011 08:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111995711003	07/19/2011 07:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708003	07/18/2011 22:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112075708001	07/26/2011 22:49	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026002	07/18/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711003	07/19/2011 02:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621202A	07/28/2011 04:18	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11207621202A	07/28/2011 04:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206206201A	07/27/2011 06:59	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11208243202A	07/28/2011 14:39	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11209102201A	07/28/2011 21:05	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621202A	07/26/2011 08:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206206201A	07/25/2011 15:20	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	3	11209102201A	07/28/2011 17:15	Venia B McFadden	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039404A	07/25/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243202A	07/27/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-054-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA6-SS-0.0-0.5

LLI Sample # SW 6345441
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:20

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0008 SDG#: DE200-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	714		167	334		10
	Reporting limits were raised due to interference from the sample matrix.							
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 168 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank or the re-analysis of the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-054-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA6-SS-0.0-0.5

LLI Sample # SW 6345441
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:20

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0008 SDG#: DE200-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7		1
10138	Anthracene	120-12-7	0.84	J	0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	5.4		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	5.4		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	14		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	2.7		0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	5.2		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	16	J	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.3	J	6.0	18		1
10138	Chrysene	218-01-9	8.6		0.33	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	1.3	J	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	21		6.0	18		1
10138	Fluoranthene	206-44-0	14		0.67	1.7		1
10138	Fluorene	86-73-7	2.5		0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.2		0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.90	J	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	8.4	J	6.0	18		1
10138	Phenanthrene	85-01-8	5.1		0.67	1.7		1
10138	Pyrene	129-00-0	8.9		0.67	1.7		1

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Sample Description: SL-054-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA6-SS-0.0-0.5

LLI Sample # SW 6345441
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:20

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0008 SDG#: DE200-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	56	J	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	3.0		0.63	1.7		1
10401	Dicamba	1918-00-9	0.47	J	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.28	U	0.28	0.28		1
10401	2,4,5-TP	93-72-1	0.43		0.076	0.17		1

Reporting limits were raised for 2,4,5-T due to interference from the sample

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SSFL Area IV Collocated Soil Sampling
SL-054-SA6-SS-0.0-0.5

LLI Sample # SW 6345441
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
Suite 210
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E0008 SDG#: DE200-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
matrix.								
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	640	J	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.49		0.067	0.35		1
01363	p,p-DDT	50-29-3	1.4		0.067	0.35		1
01363	Delta BHC	319-86-8	0.041	J	0.037	0.17		1
01363	Dieldrin	60-57-1	0.091	U	0.091	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.13	U	0.13	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.15	U	0.15	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.051	J	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.18	U	0.18	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	5.8		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	2.9		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1

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Sample Description: SL-054-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA6-SS-0.0-0.5

LLI Sample # SW 6345441
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:20

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0008 SDG#: DE200-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	2.1		0.41	1.2		1
10199	EFH (C21-C30)	n.a.	13		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	44		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.53	J	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,600		5.97	19.7		1
07914	Boron	7440-42-8	2.80	J	0.362	5.03		1
01650	Calcium	7440-70-2	3,450		2.52	20.1		1
01654	Iron	7439-89-6	17,900		2.63	20.1		1
01656	Lithium	7439-93-2	26.8		0.62	2.0		1
01657	Magnesium	7439-95-4	4,110		0.443	10.1		1
06958	Manganese	7439-96-5	275		0.0362	0.503		1
10145	Phosphorus	7723-14-0	393		0.352	10.1		1
01662	Potassium	7440-09-7	3,340		11.4	50.3		1
01667	Sodium	7440-23-5	61.5	J	5.99	101		1
07968	Strontium	7440-24-6	19.6		0.0252	0.503		1
06969	Tin	7440-31-5	2.73	J	0.322	10.1		1
06970	Titanium	7440-32-6	931		0.0701	0.987		1
10146	Zirconium	7440-67-7	2.05	J	0.463	5.03		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.114	J	0.0737	0.199		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.59		0.0797	0.399		2
06126	Barium	7440-39-3	114		0.106	0.399		2
06127	Beryllium	7440-41-7	0.688		0.0159	0.0996		2
06128	Cadmium	7440-43-9	0.222		0.0438	0.0996		2
06131	Chromium	7440-47-3	18.1		0.120	0.399		2
06132	Cobalt	7440-48-4	6.40		0.0199	0.0996		2
06133	Copper	7440-50-8	10.6		0.0797	0.399		2

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Sample Description: SL-054-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA6-SS-0.0-0.5

LLI Sample # SW 6345441
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:20

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0008 SDG#: DE200-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	14.6		0.0102	0.199		2
06138	Molybdenum	7439-98-7	0.769		0.0498	0.0996		2
06139	Nickel	7440-02-0	13.4		0.0996	0.399		2
06141	Selenium	7782-49-2	0.200	J	0.0578	0.399		2
06142	Silver	7440-22-4	0.0434	J	0.0141	0.0996		2
06145	Thallium	7440-28-0	0.338		0.0299	0.0996		2
06148	Vanadium	7440-62-2	36.2		0.0219	0.0996		2
06149	Zinc	7440-66-6	78.8		0.558	2.99		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0202	J	0.0068	0.0968		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.40		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.6		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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SSFL Area IV Collocated Soil Sampling
SL-054-SA6-SS-0.0-0.5

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E0008 SDG#: DE200-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11207SLC026	08/09/2011 18:29	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11202SLA026	08/02/2011 05:42	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11202SLC026	07/29/2011 04:13	Brian K Graham	1
11630	NDMA Soil Microwave	SW-846 3546	1	11207SLC026	07/27/2011 07:35	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11202SLC026	07/23/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11202SLA026	07/22/2011 06:00	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	112070007A	07/28/2011 11:35	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111970008A	07/19/2011 02:26	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112030003A	07/25/2011 18:57	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112020040A	08/16/2011 03:25	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112020040A	08/17/2011 03:30	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060004A	07/26/2011 20:43	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112020040A	07/22/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060004A	07/25/2011 14:30	Wanda F Oswald	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112030003A	07/23/2011 08:25	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111970008A	07/17/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112070007A	07/26/2011 15:15	Kelli M Barto	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111990026A	07/21/2011 01:58	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111990002A	07/19/2011 10:46	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112030005A	07/26/2011 00:43	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112040003A	07/26/2011 05:40	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112040003A	07/25/2011 02:45	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	112030005A	07/25/2011 07:30	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111990026A	07/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111990002A	07/18/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708001	07/27/2011 15:15	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111995708003	07/25/2011 20:23	John P Hook	1
01650	Calcium	SW-846 6010B	1	111995708003	07/25/2011 20:23	John P Hook	1
01654	Iron	SW-846 6010B	1	111995708003	07/25/2011 20:23	John P Hook	1
01656	Lithium	SW-846 6010B	1	111995708003	07/25/2011 20:23	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111995708003	07/25/2011 20:23	John P Hook	1
06958	Manganese	SW-846 6010B	1	111995708003	07/25/2011 20:23	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111995708003	07/25/2011 20:23	John P Hook	1
01662	Potassium	SW-846 6010B	1	111995708003	07/25/2011 20:23	John P Hook	1
01667	Sodium	SW-846 6010B	1	111995708003	07/25/2011 20:23	John P Hook	1
07968	Strontium	SW-846 6010B	1	111995708003	07/25/2011 20:23	John P Hook	1
06969	Tin	SW-846 6010B	1	111995708003	07/25/2011 20:23	John P Hook	1
06970	Titanium	SW-846 6010B	1	112075708001	07/27/2011 15:15	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111995708003	07/25/2011 20:23	John P Hook	1

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SSFL Area IV Collocated Soil Sampling
SL-054-SA6-SS-0.0-0.5

LLI Sample # SW 6345441
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E0008 SDG#: DE200-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	111991026002A	07/25/2011 08:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111991026002A	07/25/2011 08:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111991026002D	07/25/2011 08:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111991026002A	07/25/2011 08:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111991026002A	07/25/2011 08:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111991026002A	07/25/2011 08:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111991026002A	07/25/2011 08:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111991026002A	07/25/2011 08:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111991026002A	07/25/2011 08:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111991026002C	07/25/2011 08:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111991026002A	07/25/2011 08:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111991026002B	07/25/2011 08:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111991026002A	07/25/2011 08:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111991026002A	07/25/2011 08:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111991026002A	07/25/2011 08:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111991026002A	07/25/2011 08:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111995711003	07/19/2011 07:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708003	07/18/2011 22:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112075708001	07/26/2011 22:49	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026002	07/18/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711003	07/19/2011 02:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621202A	07/28/2011 04:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11207621202A	07/28/2011 04:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206206201A	07/27/2011 07:22	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243202A	07/28/2011 14:45	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11209102201A	07/28/2011 21:07	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621202A	07/26/2011 08:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206206201A	07/25/2011 15:20	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	3	11209102201A	07/28/2011 17:15	Venia B McFadden	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039404A	07/25/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243202A	07/27/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-055-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA6-SS-0.0-0.5

LLI Sample # SW 6345442
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:53

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0009 SDG#: DE200-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	2,010		168	336		10
	Reporting limits were raised due to interference from the sample matrix.							
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 168 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank or the re-analysis of the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1

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Sample Description: SL-055-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA6-SS-0.0-0.5

LLI Sample # SW 6345442
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:53

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0009 SDG#: DE200-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7		1
10138	Anthracene	120-12-7	0.33	U	0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.67	U	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	J	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	0.47	J	0.33	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.0	U	6.0	18		1
10138	Fluoranthene	206-44-0	0.67	U	0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.73	J	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	0.67	U	0.67	1.7		1
10138	Pyrene	129-00-0	0.67	U	0.67	1.7		1

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Sample Description: SL-055-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA6-SS-0.0-0.5

LLI Sample # SW 6345442
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:53

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0009 SDG#: DE200-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	15	U	15	15		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	2.3	U	2.3	2.3		1
10401	MCPA	94-74-6	160	U	160	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.14	U	0.14	0.17		1
10401	2,4,5-TP	93-72-1	0.10	J	0.076	0.17		1

Reporting limits were raised for MCPA, 2,4-DP, 2,4,5-T, and 2,4-DB due to

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Sample Description: SL-055-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA6-SS-0.0-0.5

LLI Sample # SW 6345442
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:53

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0009 SDG#: DE200-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	interference from the sample matrix.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	5.4		0.81	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.74		0.067	0.35		1
01363	p,p-DDT	50-29-3	2.4		0.067	0.35		1
01363	Delta BHC	319-86-8	0.039	J	0.037	0.17		1
01363	Dieldrin	60-57-1	0.085	J	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.14	J	0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.22	J	0.067	0.35		1
01363	Endrin Ketone	53494-70-5	0.11	U	0.11	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.062	J	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1

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Sample Description: SL-055-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA6-SS-0.0-0.5

LLI Sample # SW 6345442
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:53

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0009 SDG#: DE200-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	2.8		0.41	1.2		1
10199	EFH (C21-C30)	n.a.	13		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	27		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	J	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,800		6.08	20.1		1
07914	Boron	7440-42-8	1.94	J	0.362	5.03		1
01650	Calcium	7440-70-2	2,040		2.51	20.1		1
01654	Iron	7439-89-6	18,300		2.62	20.1		1
01656	Lithium	7439-93-2	26.0		0.62	2.0		1
01657	Magnesium	7439-95-4	3,920		0.442	10.1		1
06958	Manganese	7439-96-5	285		0.0362	0.503		1
10145	Phosphorus	7723-14-0	348		0.352	10.1		1
01662	Potassium	7440-09-7	3,620		11.4	50.3		1
01667	Sodium	7440-23-5	58.2	J	5.98	101		1
07968	Strontium	7440-24-6	16.0		0.0251	0.503		1
06969	Tin	7440-31-5	2.66	J	0.322	10.1		1
06970	Titanium	7440-32-6	926		0.0714	1.01		1
10146	Zirconium	7440-67-7	1.77	J	0.462	5.03		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0722	U	0.0722	0.195		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.82		0.0781	0.390		2
06126	Barium	7440-39-3	82.1		0.103	0.390		2
06127	Beryllium	7440-41-7	0.539		0.0156	0.0976		2
06128	Cadmium	7440-43-9	0.154		0.0430	0.0976		2
06131	Chromium	7440-47-3	14.3		0.117	0.390		2
06132	Cobalt	7440-48-4	5.16		0.0195	0.0976		2
06133	Copper	7440-50-8	7.43		0.0781	0.390		2

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Sample Description: SL-055-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA6-SS-0.0-0.5

LLI Sample # SW 6345442
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:53

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0009 SDG#: DE200-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	9.88		0.010	0.195		2
06138	Molybdenum	7439-98-7	0.600		0.0488	0.0976		2
06139	Nickel	7440-02-0	10.3		0.0976	0.390		2
06141	Selenium	7782-49-2	0.194	J	0.0566	0.390		2
06142	Silver	7440-22-4	0.0395	J	0.0139	0.0976		2
06145	Thallium	7440-28-0	0.278		0.0293	0.0976		2
06148	Vanadium	7440-62-2	29.2		0.0215	0.0976		2
06149	Zinc	7440-66-6	56.6		0.547	2.93		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0128	J	0.0069	0.0987		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.98	J	0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	5.15		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-055-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA6-SS-0.0-0.5

LLI Sample # SW 6345442
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:53

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0009 SDG#: DE200-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11207SLC026	08/09/2011 18:48	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11202SLA026	08/02/2011 06:07	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11202SLC026	07/29/2011 04:45	Brian K Graham	1
11630	NDMA Soil Microwave	SW-846 3546	1	11207SLC026	07/27/2011 07:35	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11202SLC026	07/23/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11202SLA026	07/22/2011 06:00	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	112070007A	07/28/2011 12:17	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111970008A	07/19/2011 02:35	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112030003A	07/25/2011 19:24	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112020040A	08/16/2011 03:53	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112020040A	08/17/2011 03:44	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060004A	07/26/2011 21:01	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112020040A	07/22/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060004A	07/25/2011 14:30	Wanda F Oswald	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112030003A	07/23/2011 08:25	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111970008A	07/17/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112070007A	07/26/2011 15:15	Kelli M Barto	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111990026A	07/21/2011 02:13	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111990002A	07/19/2011 10:59	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112030005A	07/26/2011 01:28	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112040003A	07/26/2011 04:24	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112040003A	07/25/2011 02:45	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	112030005A	07/25/2011 07:30	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111990026A	07/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111990002A	07/18/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708001	07/27/2011 15:19	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111995708003	07/25/2011 20:28	John P Hook	1
01650	Calcium	SW-846 6010B	1	111995708003	07/25/2011 20:28	John P Hook	1
01654	Iron	SW-846 6010B	1	111995708003	07/25/2011 20:28	John P Hook	1
01656	Lithium	SW-846 6010B	1	111995708003	07/25/2011 20:28	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111995708003	07/25/2011 20:28	John P Hook	1
06958	Manganese	SW-846 6010B	1	111995708003	07/25/2011 20:28	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111995708003	07/25/2011 20:28	John P Hook	1
01662	Potassium	SW-846 6010B	1	111995708003	07/25/2011 20:28	John P Hook	1
01667	Sodium	SW-846 6010B	1	111995708003	07/25/2011 20:28	John P Hook	1
07968	Strontium	SW-846 6010B	1	111995708003	07/25/2011 20:28	John P Hook	1
06969	Tin	SW-846 6010B	1	111995708003	07/25/2011 20:28	John P Hook	1
06970	Titanium	SW-846 6010B	1	112075708001	07/27/2011 15:19	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111995708003	07/25/2011 20:28	John P Hook	1

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Sample Description: SL-055-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA6-SS-0.0-0.5

LLI Sample # SW 6345442
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:53

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0009 SDG#: DE200-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	111991026002A	07/25/2011 08:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111991026002A	07/25/2011 08:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111991026002D	07/25/2011 08:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111991026002A	07/25/2011 08:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111991026002A	07/25/2011 08:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111991026002A	07/25/2011 08:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111991026002A	07/25/2011 08:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111991026002A	07/25/2011 08:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111991026002A	07/25/2011 08:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111991026002C	07/25/2011 08:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111991026002A	07/25/2011 08:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111991026002B	07/25/2011 08:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111991026002A	07/25/2011 08:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111991026002A	07/25/2011 08:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111991026002A	07/25/2011 08:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111991026002A	07/25/2011 08:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111995711003	07/19/2011 07:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708003	07/18/2011 22:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112075708001	07/26/2011 22:49	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026002	07/18/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711003	07/19/2011 02:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621202A	07/28/2011 05:17	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11207621202A	07/28/2011 05:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206206201A	07/28/2011 20:17	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243202A	07/28/2011 14:59	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11209102201A	07/28/2011 21:08	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621202A	07/26/2011 08:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206206201A	07/25/2011 15:20	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	3	11209102201A	07/28/2011 17:15	Venia B McFadden	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039404A	07/25/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243202A	07/27/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-060-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA6-SS-0.0-0.5

LLI Sample # SW 6345443
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:38

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0010 SDG#: DE200-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	736		169	337		10
	Reporting limits were raised due to interference from the sample matrix.							
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 168 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank or the re-analysis of the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-060-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA6-SS-0.0-0.5

LLI Sample # SW 6345443
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:38

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0010 SDG#: DE200-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.4	J	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.2	J	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	1.1	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.0	U	6.0	18		1
10138	Fluoranthene	206-44-0	1.1	J	0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	0.67	U	0.67	1.7		1
10138	Pyrene	129-00-0	0.71	J	0.67	1.7		1

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Sample Description: SL-060-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA6-SS-0.0-0.5

LLI Sample # SW 6345443
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:38

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0010 SDG#: DE200-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	3.1	U	3.1	3.1		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	1.7		1
10401	MCPA	94-74-6	170	U	170	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.41	U	0.41	0.41		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1

Reporting limits were raised for MCPA, 2,4-DP, 2,4,5-T, and 2,4-DB due to

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SL-060-SA6-SS-0.0-0.5

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0010 SDG#: DE200-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	interference from the sample matrix.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.11	U	0.11	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.047	J	0.035	0.17		1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	1.6		0.068	0.35		1
01363	p,p-DDT	50-29-3	5.9		0.34	1.7		5
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.57	U	0.57	0.57		1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	0.068	U	0.068	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.37	U	0.37	0.37		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.42	U	0.42	0.42		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.22	U	0.22	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	5.8		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	6.8		0.34	1.7		1
10225	PCB-1260	11096-82-5	2.5		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1

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Sample Description: SL-060-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA6-SS-0.0-0.5

LLI Sample # SW 6345443
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:38

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E0010 SDG#: DE200-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.1	U	4.1	12		10
10199	EFH (C15-C20)	n.a.	4.1	U	4.1	12		10
10199	EFH (C21-C30)	n.a.	71		4.1	12		10
10199	EFH (C30 - C40)	n.a.	260		4.1	12		10
10199	EFH (C8-C11)	n.a.	4.1	U	4.1	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,700		6.08	20.1		1
07914	Boron	7440-42-8	3.33	J	0.358	4.97		1
01650	Calcium	7440-70-2	3,260		2.49	19.9		1
01654	Iron	7439-89-6	19,800		2.60	19.9		1
01656	Lithium	7439-93-2	23.3		0.62	2.0		1
01657	Magnesium	7439-95-4	4,460		0.438	9.95		1
06958	Manganese	7439-96-5	272		0.0358	0.497		1
10145	Phosphorus	7723-14-0	454		0.348	9.95		1
01662	Potassium	7440-09-7	3,580		11.2	49.7		1
01667	Sodium	7440-23-5	75.1	J	5.92	99.5		1
07968	Strontium	7440-24-6	16.9		0.0249	0.497		1
06969	Tin	7440-31-5	2.64	J	0.318	9.95		1
06970	Titanium	7440-32-6	1,020		0.0713	1.00		1
10146	Zirconium	7440-67-7	2.12	J	0.458	4.97		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.783		0.0758	0.205		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.28		0.0820	0.410		2
06126	Barium	7440-39-3	101		0.109	0.410		2
06127	Beryllium	7440-41-7	0.714		0.0164	0.102		2
06128	Cadmium	7440-43-9	0.340		0.0451	0.102		2
06131	Chromium	7440-47-3	21.2		0.123	0.410		2
06132	Cobalt	7440-48-4	6.98		0.0205	0.102		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-060-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA6-SS-0.0-0.5

LLI Sample # SW 6345443
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:38

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0010 SDG#: DE200-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06133	Copper	7440-50-8	12.6		0.0820	0.410		2
06135	Lead	7439-92-1	18.8		0.0105	0.205		2
06138	Molybdenum	7439-98-7	0.871		0.0512	0.102		2
06139	Nickel	7440-02-0	14.6		0.102	0.410		2
06141	Selenium	7782-49-2	0.157	J	0.0594	0.410		2
06142	Silver	7440-22-4	0.0663	J	0.0145	0.102		2
06145	Thallium	7440-28-0	0.343		0.0307	0.102		2
06148	Vanadium	7440-62-2	41.8		0.0225	0.102		2
06149	Zinc	7440-66-6	98.6		0.574	3.07		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.213		0.0072	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	9.1		0.83	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.89		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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E0010 SDG#: DE200-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11207SLC026	08/09/2011 19:27	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11202SLA026	08/02/2011 06:32	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11202SLC026	07/29/2011 05:17	Brian K Graham	1
11630	NDMA Soil Microwave	SW-846 3546	1	11207SLC026	07/27/2011 07:35	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11202SLC026	07/23/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11202SLA026	07/22/2011 06:00	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	112070007A	07/28/2011 14:24	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111970008A	07/19/2011 02:45	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112030003A	07/25/2011 19:52	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112020040A	08/16/2011 04:22	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112020040A	08/16/2011 06:02	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060004A	07/26/2011 21:20	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112020040A	07/22/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060004A	07/25/2011 14:30	Wanda F Oswald	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112030003A	07/23/2011 08:25	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111970008A	07/17/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112070007A	07/26/2011 15:15	Kelli M Barto	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111990026A	07/21/2011 02:28	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111990002A	07/19/2011 11:12	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112030005A	07/26/2011 08:52	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112040003A	07/26/2011 11:06	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112040003A	07/25/2011 02:45	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	112030005A	07/25/2011 07:30	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111990026A	07/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111990002A	07/18/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708001	07/27/2011 15:23	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111995708003	07/25/2011 20:32	John P Hook	1
01650	Calcium	SW-846 6010B	1	111995708003	07/25/2011 20:32	John P Hook	1
01654	Iron	SW-846 6010B	1	111995708003	07/25/2011 20:32	John P Hook	1
01656	Lithium	SW-846 6010B	1	111995708003	07/25/2011 20:32	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111995708003	07/25/2011 20:32	John P Hook	1
06958	Manganese	SW-846 6010B	1	111995708003	07/25/2011 20:32	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111995708003	07/25/2011 20:32	John P Hook	1
01662	Potassium	SW-846 6010B	1	111995708003	07/25/2011 20:32	John P Hook	1
01667	Sodium	SW-846 6010B	1	111995708003	07/25/2011 20:32	John P Hook	1
07968	Strontium	SW-846 6010B	1	111995708003	07/25/2011 20:32	John P Hook	1
06969	Tin	SW-846 6010B	1	111995708003	07/25/2011 20:32	John P Hook	1
06970	Titanium	SW-846 6010B	1	112075708001	07/27/2011 15:23	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111995708003	07/25/2011 20:32	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-060-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA6-SS-0.0-0.5

LLI Sample # SW 6345443
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:38

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0010 SDG#: DE200-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	111991026002A	07/25/2011 08:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111991026002A	07/25/2011 08:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111991026002D	07/25/2011 08:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111991026002A	07/25/2011 08:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111991026002A	07/25/2011 08:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111991026002A	07/25/2011 08:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111991026002A	07/25/2011 08:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111991026002A	07/25/2011 08:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111991026002A	07/25/2011 08:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111991026002C	07/25/2011 08:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111991026002A	07/25/2011 08:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111991026002B	07/25/2011 08:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111991026002A	07/25/2011 08:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111991026002A	07/25/2011 08:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111991026002A	07/25/2011 08:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111991026002A	07/25/2011 08:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111995711003	07/19/2011 07:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708003	07/18/2011 22:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112075708001	07/26/2011 22:49	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026002	07/18/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711003	07/19/2011 02:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621202A	07/28/2011 05:32	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11207621202A	07/28/2011 05:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206206201A	07/28/2011 20:40	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243202A	07/28/2011 15:12	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11209102201A	07/28/2011 21:09	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621202A	07/26/2011 08:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206206201A	07/25/2011 15:20	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	3	11209102201A	07/28/2011 17:15	Venia B McFadden	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039404B	07/25/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243202A	07/27/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-063-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA6-SS-0.0-0.5

LLI Sample # SW 6345444
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 11:16

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0011 SDG#: DE200-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	308	J	170	339		10

Reporting limits were raised due to interference from the sample matrix.

N-Nitrosodimethylamine was detected in the method blank at a concentration of 168 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank or the re-analysis of the sample. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzo(g,h,i)perylene	191-24-2	18	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	30	J	17	350		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1

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Sample Description: SL-063-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA6-SS-0.0-0.5

LLI Sample # SW 6345444
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 11:16

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0011 SDG#: DE200-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.6		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.6		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.6		5
10138	Benzo(a)anthracene	56-55-3	3.4	U	3.4	8.6		5
10138	Benzo(a)pyrene	50-32-8	3.8	J	3.4	8.6		5
10138	Benzo(b)fluoranthene	205-99-2	6.1	J	3.4	8.6		5
10138	Benzo(k)fluoranthene	207-08-9	7.6	J	3.4	8.6		5
10138	Chrysene	218-01-9	6.1	J	1.7	8.6		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.6		5
10138	Fluoranthene	206-44-0	6.6	J	3.4	8.6		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.6		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.6		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.6		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.6		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.6		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.6		5
10138	Phenanthrene	85-01-8	3.4	U	3.4	8.6		5
10138	Pyrene	129-00-0	4.5	J	3.4	8.6		5
	Reporting limits were raised due to interference from the sample matrix.							

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Sample Description: SL-063-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA6-SS-0.0-0.5

LLI Sample # SW 6345444
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 11:16

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0011 SDG#: DE200-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	83	U	83	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	83	U	83	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	830	U	830	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	83	U	83	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	83	U	83	120	10000000	1
10132	PETN	78-11-5	830	U	830	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.3		1
10401	2,4-DB	94-82-6	4.7		0.64	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	83	U	83	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.21	U	0.21	0.21		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1

Reporting limits were raised for MCPA and 2,4,5-T due to interference from the

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Sample Description: SL-063-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA6-SS-0.0-0.5

LLI Sample # SW 6345444
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 11:16

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E0011 SDG#: DE200-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	sample matrix. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	910	J	620	1,600		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.072	U	0.072	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	13		0.83	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	1.8	U	1.8	1.8		1
01363	p,p-DDT	50-29-3	15		0.68	3.5		10
01363	Delta BHC	319-86-8	0.24	U	0.24	0.24		1
01363	Dieldrin	60-57-1	2.8		0.34	1.8		5
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	3.8	U	3.8	3.8		5
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	1.1	U	1.1	1.1		1
01363	Endrin Aldehyde	7421-93-4	1.7	U	1.7	1.7		1
01363	Endrin Ketone	53494-70-5	0.14	U	0.14	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.53	U	0.53	0.53		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	10	U	10	34		10
10225	Aroclor 5442	12642-23-8	10	U	10	34		10
10225	Aroclor 5460	11126-42-4	25	J	10	34		10
10225	PCB-1016	12674-11-2	3.4	U	3.4	18		10
10225	PCB-1221	11104-28-2	3.4	U	3.4	18		10
10225	PCB-1232	11141-16-5	3.4	U	3.4	18		10
10225	PCB-1242	53469-21-9	3.4	U	3.4	18		10
10225	PCB-1248	12672-29-6	3.4	U	3.4	18		10
10225	PCB-1254	11097-69-1	3.4	U	3.4	18		10
10225	PCB-1260	11096-82-5	70		4.0	18		10
10225	PCB-1262	37324-23-5	3.4	U	3.4	18		10
10225	PCB-1268	11100-14-4	3.4	U	3.4	18		10

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Sample Description: SL-063-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA6-SS-0.0-0.5

LLI Sample # SW 6345444
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 11:16

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E0011 SDG#: DE200-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.2		5
10199	EFH (C15-C20)	n.a.	4.9	J	2.1	6.2		5
10199	EFH (C21-C30)	n.a.	48		2.1	6.2		5
10199	EFH (C30 - C40)	n.a.	170		2.1	6.2		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.2		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,300		6.02	19.9		1
07914	Boron	7440-42-8	4.53	J	0.365	5.07		1
01650	Calcium	7440-70-2	5,510		2.54	20.3		1
01654	Iron	7439-89-6	21,600		2.65	20.3		1
01656	Lithium	7439-93-2	28.7		0.63	2.0		1
01657	Magnesium	7439-95-4	4,500		0.447	10.1		1
06958	Manganese	7439-96-5	764		0.0365	0.507		1
10145	Phosphorus	7723-14-0	477		0.355	10.1		1
01662	Potassium	7440-09-7	3,070		11.5	50.7		1
01667	Sodium	7440-23-5	104		6.04	101		1
07968	Strontium	7440-24-6	33.4		0.0254	0.507		1
06969	Tin	7440-31-5	3.26	J	0.325	10.1		1
06970	Titanium	7440-32-6	893		0.0707	0.995		1
10146	Zirconium	7440-67-7	1.47	J	0.467	5.07		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.510		0.0751	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-063-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA6-SS-0.0-0.5

LLI Sample # SW 6345444
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 11:16

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0011 SDG#: DE200-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	6.10		0.0812	0.406		2
06126	Barium	7440-39-3	141		0.108	0.406		2
06127	Beryllium	7440-41-7	0.624		0.0162	0.101		2
06128	Cadmium	7440-43-9	1.15		0.0447	0.101		2
06131	Chromium	7440-47-3	21.0		0.122	0.406		2
06132	Cobalt	7440-48-4	8.19		0.0203	0.101		2
06133	Copper	7440-50-8	25.3		0.0812	0.406		2
06135	Lead	7439-92-1	20.3		0.0104	0.203		2
06138	Molybdenum	7439-98-7	0.949		0.0507	0.101		2
06139	Nickel	7440-02-0	14.7		0.101	0.406		2
06141	Selenium	7782-49-2	0.210	J	0.0589	0.406		2
06142	Silver	7440-22-4	0.102		0.0144	0.101		2
06145	Thallium	7440-28-0	0.272		0.0304	0.101		2
06148	Vanadium	7440-62-2	39.0		0.0223	0.101		2
06149	Zinc	7440-66-6	321		1.42	7.61		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.243		0.0068	0.0973		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.91	J	0.84	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.6		0.84	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.12		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

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Sample Description: SL-063-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA6-SS-0.0-0.5

LLI Sample # SW 6345444
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 11:16

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0011 SDG#: DE200-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11207SLC026	08/09/2011 19:46	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11202SLA026	08/02/2011 07:41	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11202SLC026	07/29/2011 05:49	Brian K Graham	5
11630	NDMA Soil Microwave	SW-846 3546	1	11207SLC026	07/27/2011 07:35	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11202SLC026	07/23/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11202SLA026	07/22/2011 06:00	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	112070007A	07/28/2011 15:07	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111970008A	07/19/2011 02:54	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112030003A	07/25/2011 20:19	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112020040A	08/16/2011 06:16	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112020040A	08/16/2011 06:30	Jamie L Brillhart	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112020040A	08/17/2011 04:00	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060004A	07/27/2011 17:50	Sarah M Snyder	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112020040A	07/22/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060004A	07/25/2011 14:30	Wanda F Oswald	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112030003A	07/23/2011 08:25	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111970008A	07/17/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112070007A	07/26/2011 15:15	Kelli M Barto	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111990026A	07/21/2011 02:43	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111990002A	07/19/2011 11:24	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112030005A	07/26/2011 09:37	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112040003A	07/26/2011 09:51	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112040003A	07/25/2011 02:45	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	112030005A	07/25/2011 07:30	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111990026A	07/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111990002A	07/18/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708001	07/27/2011 15:27	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111995708003	07/25/2011 20:36	John P Hook	1
01650	Calcium	SW-846 6010B	1	111995708003	07/25/2011 20:36	John P Hook	1
01654	Iron	SW-846 6010B	1	111995708003	07/25/2011 20:36	John P Hook	1
01656	Lithium	SW-846 6010B	1	111995708003	07/25/2011 20:36	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111995708003	07/25/2011 20:36	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-063-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA6-SS-0.0-0.5

LLI Sample # SW 6345444
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 11:16

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0011 SDG#: DE200-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	111995708003	07/25/2011 20:36	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111995708003	07/25/2011 20:36	John P Hook	1
01662	Potassium	SW-846 6010B	1	111995708003	07/25/2011 20:36	John P Hook	1
01667	Sodium	SW-846 6010B	1	111995708003	07/25/2011 20:36	John P Hook	1
07968	Strontium	SW-846 6010B	1	111995708003	07/25/2011 20:36	John P Hook	1
06969	Tin	SW-846 6010B	1	111995708003	07/25/2011 20:36	John P Hook	1
06970	Titanium	SW-846 6010B	1	112075708001	07/27/2011 15:27	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111995708003	07/25/2011 20:36	John P Hook	1
06124	Antimony	SW-846 6020	1	111991026002A	07/25/2011 08:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111991026002A	07/25/2011 08:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111991026002D	07/25/2011 08:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111991026002A	07/25/2011 08:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111991026002A	07/25/2011 08:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111991026002A	07/25/2011 08:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111991026002A	07/25/2011 08:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111991026002A	07/25/2011 08:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111991026002A	07/25/2011 08:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111991026002C	07/25/2011 08:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111991026002A	07/25/2011 08:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111991026002B	07/25/2011 08:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111991026002A	07/25/2011 08:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111991026002A	07/25/2011 08:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111991026002A	07/25/2011 08:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111991026002A	07/26/2011 01:04	David K Beck	5
00159	Mercury	SW-846 7471A	1	111995711003	07/19/2011 07:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708003	07/18/2011 22:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112075708001	07/26/2011 22:49	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026002	07/18/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711003	07/19/2011 02:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621202B	07/28/2011 05:47	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11207621202B	07/28/2011 05:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206206201B	07/27/2011 10:04	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243202A	07/28/2011 15:26	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11209102201A	07/28/2011 21:12	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621202B	07/26/2011 08:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206206201B	07/25/2011 15:20	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	3	11209102201A	07/28/2011 17:15	Venia B McFadden	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039404B	07/25/2011 22:10	Luz M Groff	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-063-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA6-SS-0.0-0.5

LLI Sample # SW 6345444
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 11:16

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0011 SDG#: DE200-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243202A	07/27/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-064-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA6-SS-0.0-0.5

LLI Sample # SW 6345445
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:29

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0012 SDG#: DE200-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	513		169	339		10
	Reporting limits were raised due to interference from the sample matrix.							
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 168 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank or the re-analysis of the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1

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Sample Description: SL-064-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA6-SS-0.0-0.5

LLI Sample # SW 6345445
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:29

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0012 SDG#: DE200-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.1	J	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.4	J	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	2.8		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	4.8		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	9.7	J	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	3.6		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.1	18		1
10138	Fluoranthene	206-44-0	3.3		0.67	1.7		1
10138	Fluorene	86-73-7	1.1	J	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.81	J	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	1.3	J	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	1.8		0.67	1.7		1
10138	Pyrene	129-00-0	2.7		0.67	1.7		1

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Sample Description: SL-064-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA6-SS-0.0-0.5

LLI Sample # SW 6345445
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:29

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E0012 SDG#: DE200-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	2.0	U	2.0	2.0		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	78	U	78	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1

Reporting limits were raised for 2,4-DB due to interference from the sample

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SL-064-SA6-SS-0.0-0.5

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
matrix.								
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.27		0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.80	U	0.80	0.80		1
01363	p,p-DDT	50-29-3	1.7	U	1.7	1.7		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.30	U	0.30	0.30		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.40	U	0.40	0.40		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.11	U	0.11	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.10	U	0.10	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.42	U	0.42	0.42		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	3.7		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	4.4		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	4,400		100	510		1
10501	Isopropanol	67-63-0	190	J	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1

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SL-064-SA6-SS-0.0-0.5

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E0012 SDG#: DE200-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	J	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	3.7		0.41	1.2		1
10199	EFH (C21-C30)	n.a.	25		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	34		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.78	J	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,700		5.89	19.5		1
07914	Boron	7440-42-8	2.68	J	0.368	5.11		1
01650	Calcium	7440-70-2	3,060		2.56	20.4		1
01654	Iron	7439-89-6	18,200		2.67	20.4		1
01656	Lithium	7439-93-2	26.6		0.63	2.0		1
01657	Magnesium	7439-95-4	4,340		0.450	10.2		1
06958	Manganese	7439-96-5	288		0.0368	0.511		1
10145	Phosphorus	7723-14-0	439		0.358	10.2		1
01662	Potassium	7440-09-7	3,840		11.6	51.1		1
01667	Sodium	7440-23-5	65.0	J	6.08	102		1
07968	Strontium	7440-24-6	20.1		0.0256	0.511		1
06969	Tin	7440-31-5	2.72	J	0.327	10.2		1
06970	Titanium	7440-32-6	1,040		0.0691	0.974		1
10146	Zirconium	7440-67-7	2.19	J	0.470	5.11		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.119	J	0.0735	0.199		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.12		0.0794	0.397		2
06126	Barium	7440-39-3	85.7		0.105	0.397		2
06127	Beryllium	7440-41-7	0.474		0.0159	0.0993		2
06128	Cadmium	7440-43-9	0.246		0.0437	0.0993		2
06131	Chromium	7440-47-3	14.7		0.119	0.397		2
06132	Cobalt	7440-48-4	4.97		0.0199	0.0993		2
06133	Copper	7440-50-8	8.13		0.0794	0.397		2

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SSFL Area IV Collocated Soil Sampling
SL-064-SA6-SS-0.0-0.5

LLI Sample # SW 6345445
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E0012 SDG#: DE200-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	10.4		0.0101	0.199		2
06138	Molybdenum	7439-98-7	0.467		0.0496	0.0993		2
06139	Nickel	7440-02-0	10.1		0.0993	0.397		2
06141	Selenium	7782-49-2	0.0925	J	0.0576	0.397		2
06142	Silver	7440-22-4	0.0742	J	0.0141	0.0993		2
06145	Thallium	7440-28-0	0.218		0.0298	0.0993		2
06148	Vanadium	7440-62-2	29.2		0.0218	0.0993		2
06149	Zinc	7440-66-6	56.5		0.556	2.98		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0699	J	0.0068	0.0971		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.83	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.91		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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SL-064-SA6-SS-0.0-0.5

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E0012 SDG#: DE200-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11207SLC026	08/09/2011 20:06	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11202SLA026	08/02/2011 08:06	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11202SLC026	07/29/2011 06:20	Brian K Graham	1
11630	NDMA Soil Microwave	SW-846 3546	1	11207SLC026	07/27/2011 07:35	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11202SLC026	07/23/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11202SLA026	07/22/2011 06:00	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	112070007A	07/28/2011 15:49	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111970008A	07/19/2011 03:04	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112030003A	07/25/2011 20:47	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112020040A	08/16/2011 06:45	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112020040A	08/17/2011 04:14	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060004A	07/26/2011 21:57	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112020040A	07/22/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060004A	07/25/2011 14:30	Wanda F Oswald	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112030003A	07/23/2011 08:25	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111970008A	07/17/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112070007A	07/26/2011 15:15	Kelli M Barto	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111990026A	07/21/2011 02:58	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111990002A	07/19/2011 11:37	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112030005A	07/26/2011 02:13	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112040003A	07/26/2011 06:05	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112040003A	07/25/2011 02:45	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	112030005A	07/25/2011 07:30	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111990026A	07/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111990002A	07/18/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708001	07/27/2011 15:31	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111995708003	07/25/2011 20:49	John P Hook	1
01650	Calcium	SW-846 6010B	1	111995708003	07/25/2011 20:49	John P Hook	1
01654	Iron	SW-846 6010B	1	111995708003	07/25/2011 20:49	John P Hook	1
01656	Lithium	SW-846 6010B	1	111995708003	07/25/2011 20:49	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111995708003	07/25/2011 20:49	John P Hook	1
06958	Manganese	SW-846 6010B	1	111995708003	07/25/2011 20:49	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111995708003	07/25/2011 20:49	John P Hook	1
01662	Potassium	SW-846 6010B	1	111995708003	07/25/2011 20:49	John P Hook	1
01667	Sodium	SW-846 6010B	1	111995708003	07/25/2011 20:49	John P Hook	1
07968	Strontium	SW-846 6010B	1	111995708003	07/25/2011 20:49	John P Hook	1
06969	Tin	SW-846 6010B	1	111995708003	07/25/2011 20:49	John P Hook	1
06970	Titanium	SW-846 6010B	1	112075708001	07/27/2011 15:31	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111995708003	07/25/2011 20:49	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-064-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA6-SS-0.0-0.5

LLI Sample # SW 6345445
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:29

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0012 SDG#: DE200-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	111991026002A	07/25/2011 08:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111991026002A	07/25/2011 08:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111991026002D	07/25/2011 08:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111991026002A	07/25/2011 08:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111991026002A	07/25/2011 08:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111991026002A	07/25/2011 08:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111991026002A	07/25/2011 08:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111991026002A	07/25/2011 08:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111991026002A	07/25/2011 08:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111991026002C	07/25/2011 08:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111991026002A	07/25/2011 08:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111991026002B	07/25/2011 08:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111991026002A	07/25/2011 08:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111991026002A	07/25/2011 08:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111991026002A	07/25/2011 08:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111991026002A	07/25/2011 08:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111995711003	07/19/2011 07:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708003	07/18/2011 22:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112075708001	07/26/2011 22:49	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026002	07/18/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711003	07/19/2011 02:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621202B	07/28/2011 06:02	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11207621202B	07/28/2011 06:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206206201B	07/27/2011 10:27	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11208243202A	07/28/2011 15:46	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11209102201A	07/28/2011 21:14	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621202B	07/26/2011 08:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206206201B	07/25/2011 15:20	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	3	11209102201A	07/28/2011 17:15	Venia B McFadden	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039404B	07/25/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243202A	07/27/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-071-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA6-SB-4.0-5.0

LLI Sample # SW 6345446
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:35

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0013 SDG#: DE200-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	22		6.7	8.0		0.91
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.91
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.91
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.91
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.91
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.91
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.91
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.91
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.91
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.91
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.91
06192	Chloroform	67-66-3	0.12	J	0.12	4.0		0.91
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.91
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.91
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.91
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.91
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.91
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.91
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.91
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.91
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.91
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.91
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.91
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.91
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.91
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.91
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.91
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.91
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.91
06192	Methylene Chloride	75-09-2	65		0.24	4.0		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.91

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Sample Description: SL-071-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA6-SB-4.0-5.0

LLI Sample # SW 6345446
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:35

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0013 SDG#: DE200-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.91
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.91
06192	Toluene	108-88-3	0.10	J	0.08	4.0		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.91
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.91
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.91
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.91
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.91
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		21.29
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-071-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA6-SB-4.0-5.0

LLI Sample # SW 6345446
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:35

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0013 SDG#: DE200-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.1		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.1		5
10138	Anthracene	120-12-7	17		1.8	9.1		5
10138	Benzo(a)anthracene	56-55-3	140		3.6	9.1		5
10138	Benzo(a)pyrene	50-32-8	120		3.6	9.1		5
10138	Benzo(b)fluoranthene	205-99-2	190		3.6	9.1		5
10138	Benzo(g,h,i)perylene	191-24-2	37		3.6	9.1		5
10138	Benzo(k)fluoranthene	207-08-9	73		3.6	9.1		5

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-071-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA6-SB-4.0-5.0

LLI Sample # SW 6345446
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:35

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0013 SDG#: DE200-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	140		1.8	9.1		5
10138	Dibenz(a,h)anthracene	53-70-3	18		3.6	9.1		5
10138	Fluoranthene	206-44-0	230		3.6	9.1		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.1		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	44		3.6	9.1		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.1		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.1		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.1		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.1		5
10138	Phenanthrene	85-01-8	31		3.6	9.1		5
10138	Pyrene	129-00-0	150		3.6	9.1		5
Reporting limits were raised due to interference from the sample matrix.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.7
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	22	U	22	72		20
10225	Aroclor 5442	12642-23-8	22	U	22	72		20
10225	Aroclor 5460	11126-42-4	320		22	72		20
10225	PCB-1016	12674-11-2	7.2	U	7.2	37		20
10225	PCB-1221	11104-28-2	7.2	U	7.2	37		20
10225	PCB-1232	11141-16-5	7.2	U	7.2	37		20
10225	PCB-1242	53469-21-9	7.2	U	7.2	37		20
10225	PCB-1248	12672-29-6	7.2	U	7.2	37		20
10225	PCB-1254	11097-69-1	220		7.2	37		20
10225	PCB-1260	11096-82-5	8.5	U	8.5	37		20
10225	PCB-1262	37324-23-5	7.2	U	7.2	37		20
10225	PCB-1268	11100-14-4	7.2	U	7.2	37		20
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-071-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA6-SB-4.0-5.0

LLI Sample # SW 6345446
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:35

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0013 SDG#: DE200-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.87	U	0.87	2.6		2
10199	EFH (C15-C20)	n.a.	1.0	J	0.87	2.6		2
10199	EFH (C21-C30)	n.a.	21		0.87	2.6		2
10199	EFH (C30 - C40)	n.a.	55		0.87	2.6		2
10199	EFH (C8-C11)	n.a.	0.87	U	0.87	2.6		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,300		6.34	21.0		1
07914	Boron	7440-42-8	2.83	J	1.89	26.2		5
01650	Calcium	7440-70-2	12,800		2.62	21.0		1
01654	Iron	7439-89-6	86,400		13.7	105		5
01656	Lithium	7439-93-2	18.3		0.65	2.1		1
01657	Magnesium	7439-95-4	4,910		0.461	10.5		1
06958	Manganese	7439-96-5	334		0.0377	0.524		1
10145	Phosphorus	7723-14-0	589		1.83	52.4		5
01662	Potassium	7440-09-7	2,310		59.2	262		5
01667	Sodium	7440-23-5	274		6.24	105		1
07968	Strontium	7440-24-6	35.1		0.0262	0.524		1
06969	Tin	7440-31-5	3.00	J	0.336	10.5		1
06970	Titanium	7440-32-6	832		0.0744	1.05		1
10146	Zirconium	7440-67-7	0.482	U	0.482	5.24		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.393		0.0783	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	87.1		0.0847	0.424		2
06126	Barium	7440-39-3	99.8		0.112	0.424		2
06127	Beryllium	7440-41-7	0.674		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.171		0.0466	0.106		2
06131	Chromium	7440-47-3	19.3		0.127	0.424		2
06132	Cobalt	7440-48-4	45.3		0.0212	0.106		2
06133	Copper	7440-50-8	20.7		0.0847	0.424		2
06135	Lead	7439-92-1	9.77		0.0108	0.212		2
06138	Molybdenum	7439-98-7	1.67		0.0529	0.106		2
06139	Nickel	7440-02-0	14.1		0.106	0.424		2
06141	Selenium	7782-49-2	0.141	J	0.0614	0.424		2
06142	Silver	7440-22-4	0.0527	J	0.0150	0.106		2
06145	Thallium	7440-28-0	0.240		0.0318	0.106		2
06148	Vanadium	7440-62-2	39.7		0.0233	0.106		2
06149	Zinc	7440-66-6	84.7		0.593	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.809		0.0074	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-071-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA6-SB-4.0-5.0

LLI Sample # SW 6345446
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:35

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0013 SDG#: DE200-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.75	J	0.21	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.79		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-071-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B112011AA	07/20/2011 18:17	Sara E Johnson	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111961AA	07/15/2011 16:08	Jason M Long	21.29
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201119624918	07/15/2011 15:11	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201119624918	07/15/2011 15:34	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201119624918	07/15/2011 15:34	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201119624918	07/15/2011 15:11	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11202SLA026	08/02/2011 11:58	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11202SLC026	07/29/2011 06:52	Brian K Graham	5

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Sample Description: SL-071-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA6-SB-4.0-5.0

LLI Sample # SW 6345446
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:35

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0013 SDG#: DE200-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11202SLC026	07/23/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11202SLA026	07/22/2011 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11199A34A	07/19/2011 15:49	Marie D John	24.7
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119624918	07/15/2011 15:11	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060004A	07/26/2011 23:30	Sarah M Snyder	20
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060004A	07/25/2011 14:30	Wanda F Oswald	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111990026A	07/21/2011 03:13	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111990002A	07/19/2011 11:50	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112030005A	07/26/2011 12:34	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112040003A	07/26/2011 08:35	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112040003A	07/25/2011 02:45	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	112030005A	07/25/2011 07:30	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111990026A	07/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111990002A	07/18/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708001	07/27/2011 15:42	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111995708003	07/25/2011 20:57	John P Hook	5
01650	Calcium	SW-846 6010B	1	111995708003	07/25/2011 20:53	John P Hook	1
01654	Iron	SW-846 6010B	1	111995708003	07/25/2011 20:57	John P Hook	5
01656	Lithium	SW-846 6010B	1	111995708003	07/25/2011 20:53	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111995708003	07/25/2011 20:53	John P Hook	1
06958	Manganese	SW-846 6010B	1	111995708003	07/25/2011 20:53	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111995708003	07/25/2011 20:57	John P Hook	5
01662	Potassium	SW-846 6010B	1	111995708003	07/25/2011 20:57	John P Hook	5
01667	Sodium	SW-846 6010B	1	111995708003	07/25/2011 20:53	John P Hook	1
07968	Strontium	SW-846 6010B	1	111995708003	07/25/2011 20:53	John P Hook	1
06969	Tin	SW-846 6010B	1	111995708003	07/25/2011 20:53	John P Hook	1
06970	Titanium	SW-846 6010B	1	112075708001	07/27/2011 15:42	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111995708003	07/25/2011 20:53	John P Hook	1
06124	Antimony	SW-846 6020	1	111991026002A	07/25/2011 08:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111991026002A	07/25/2011 08:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111991026002D	07/25/2011 08:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111991026002A	07/25/2011 08:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111991026002A	07/26/2011 01:06	David K Beck	2
06131	Chromium	SW-846 6020	1	111991026002A	07/25/2011 08:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111991026002A	07/25/2011 08:46	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111991026002A	07/25/2011 08:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111991026002A	07/25/2011 08:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111991026002C	07/25/2011 08:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111991026002A	07/25/2011 08:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111991026002B	07/25/2011 08:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111991026002A	07/25/2011 08:46	Choon Y Tian	2

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Sample Description: SL-071-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA6-SB-4.0-5.0

LLI Sample # SW 6345446
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:35

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0013 SDG#: DE200-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	111991026002A	07/25/2011 08:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111991026002A	07/25/2011 08:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111991026002A	07/25/2011 08:46	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111995711003	07/19/2011 07:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708003	07/18/2011 22:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112075708001	07/26/2011 22:49	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026002	07/18/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711003	07/19/2011 02:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621202B	07/28/2011 19:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206206201B	07/27/2011 10:50	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243202A	07/28/2011 15:52	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621202B	07/26/2011 08:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206206201B	07/25/2011 15:20	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039404B	07/25/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243202A	07/27/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11199162401B	07/18/2011 20:06	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-071-SA6-SB-6.0-7.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA6-SB-6.0-7.0

LLI Sample # SW 6345447
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:45

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0014 SDG#: DE200-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(a)pyrene	50-32-8	54	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	47	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	44	J	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1

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Sample Description: SL-071-SA6-SB-6.0-7.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA6-SB-6.0-7.0

LLI Sample # SW 6345447
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:45

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0014 SDG#: DE200-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenanthrene	85-01-8	36	J	18	180		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	71	J	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	7.3	U	7.3	18		10
10138	Acenaphthylene	208-96-8	3.6	U	3.6	18		10
10138	Anthracene	120-12-7	9.5	J	3.6	18		10
10138	Benzo(a)anthracene	56-55-3	54		7.3	18		10
10138	Benzo(b)fluoranthene	205-99-2	78		7.3	18		10
10138	Benzo(k)fluoranthene	207-08-9	31		7.3	18		10
10138	Chrysene	218-01-9	53		3.6	18		10
10138	Dibenz(a,h)anthracene	53-70-3	7.3	J	7.3	18		10
10138	Fluoranthene	206-44-0	85		7.3	18		10
10138	Fluorene	86-73-7	7.3	U	7.3	18		10
10138	1-Methylnaphthalene	90-12-0	7.3	U	7.3	18		10
10138	2-Methylnaphthalene	91-57-6	7.3	U	7.3	18		10
10138	Naphthalene	91-20-3	7.3	U	7.3	18		10
10138	N-Nitrosodimethylamine	62-75-9	7.3	U	7.3	18		10
	Reporting limits were raised due to interference from the sample matrix.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	2.0	U	2.0	9.8		223.61
	Reporting limits were raised due to sample foaming.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	11	U	11	36		10
10225	Aroclor 5442	12642-23-8	11	U	11	36		10
10225	Aroclor 5460	11126-42-4	260		11	36		10

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Sample Description: SL-071-SA6-SB-6.0-7.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA6-SB-6.0-7.0

LLI Sample # SW 6345447
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:45

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0014 SDG#: DE200-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1016	12674-11-2	3.6	U	3.6	18		10
10225	PCB-1221	11104-28-2	3.6	U	3.6	18		10
10225	PCB-1232	11141-16-5	3.6	U	3.6	18		10
10225	PCB-1242	53469-21-9	3.6	U	3.6	18		10
10225	PCB-1248	12672-29-6	3.6	U	3.6	18		10
10225	PCB-1254	11097-69-1	260		3.6	18		10
10225	PCB-1260	11096-82-5	4.2	U	4.2	18		10
10225	PCB-1262	37324-23-5	3.6	U	3.6	18		10
10225	PCB-1268	11100-14-4	3.6	U	3.6	18		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	22	U	22	65		50
10199	EFH (C15-C20)	n.a.	22	U	22	65		50
10199	EFH (C21-C30)	n.a.	280		22	65		50
10199	EFH (C30 - C40)	n.a.	860		22	65		50
10199	EFH (C8-C11)	n.a.	22	U	22	65		50
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,500		6.35	21.0		1
07914	Boron	7440-42-8	1.45	J	0.385	5.35		1
01650	Calcium	7440-70-2	9,260		2.68	21.4		1
01654	Iron	7439-89-6	44,100		14.0	107		5
01656	Lithium	7439-93-2	18.3		0.66	2.1		1
01657	Magnesium	7439-95-4	4,290		0.471	10.7		1
06958	Manganese	7439-96-5	286		0.0385	0.535		1
10145	Phosphorus	7723-14-0	372		0.375	10.7		1
01662	Potassium	7440-09-7	2,400		12.1	53.5		1
01667	Sodium	7440-23-5	376		6.37	107		1
07968	Strontium	7440-24-6	34.3		0.0268	0.535		1

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Sample Description: SL-071-SA6-SB-6.0-7.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA6-SB-6.0-7.0

LLI Sample # SW 6345447
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:45

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0014 SDG#: DE200-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	2.48	J	0.342	10.7		1
06970	Titanium	7440-32-6	1,120		0.0745	1.05		1
10146	Zirconium	7440-67-7	1.64	J	0.492	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.282		0.0808	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	12.0		0.0873	0.437		2
06126	Barium	7440-39-3	98.0		0.116	0.437		2
06127	Beryllium	7440-41-7	0.574		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.302		0.0480	0.109		2
06131	Chromium	7440-47-3	20.2		0.131	0.437		2
06132	Cobalt	7440-48-4	15.4		0.0218	0.109		2
06133	Copper	7440-50-8	24.1		0.0873	0.437		2
06135	Lead	7439-92-1	14.7		0.0111	0.218		2
06138	Molybdenum	7439-98-7	1.10		0.0546	0.109		2
06139	Nickel	7440-02-0	15.0		0.109	0.437		2
06141	Selenium	7782-49-2	0.125	J	0.0633	0.437		2
06142	Silver	7440-22-4	0.0592	J	0.0155	0.109		2
06145	Thallium	7440-28-0	0.229		0.0328	0.109		2
06148	Vanadium	7440-62-2	49.9		0.0240	0.109		2
06149	Zinc	7440-66-6	105		0.611	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	5.07		0.0756	1.08		10
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.86	U	0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.65	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.47		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-071-SA6-SB-6.0-7.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA6-SB-6.0-7.0

LLI Sample # SW 6345447
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:45

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0014 SDG#: DE200-14

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-071-SA6-SB-7.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11202SLA026	08/02/2011 12:22	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11202SLC026	07/29/2011 07:23	Brian K Graham	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11202SLC026	07/23/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11202SLA026	07/22/2011 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11199A34A	07/19/2011 11:50	Marie D John	223.61
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119624918	07/15/2011 15:12	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060004A	07/26/2011 23:48	Sarah M Snyder	10
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060004A	07/25/2011 14:30	Wanda F Oswald	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111990026A	07/21/2011 03:28	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111990002A	07/19/2011 12:03	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112030005A	07/26/2011 14:03	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112040003A	07/26/2011 11:56	Heather E Williams	50
11238	EFH Extraction - Soils	SW-846 3550B	1	112040003A	07/25/2011 02:45	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	112030005A	07/25/2011 07:30	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111990026A	07/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111990002A	07/18/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708001	07/27/2011 15:46	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111995708003	07/25/2011 21:01	John P Hook	1
01650	Calcium	SW-846 6010B	1	111995708003	07/25/2011 21:01	John P Hook	1
01654	Iron	SW-846 6010B	1	111995708003	07/25/2011 21:06	John P Hook	5
01656	Lithium	SW-846 6010B	1	111995708003	07/25/2011 21:01	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111995708003	07/25/2011 21:01	John P Hook	1
06958	Manganese	SW-846 6010B	1	111995708003	07/25/2011 21:01	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111995708003	07/25/2011 21:01	John P Hook	1
01662	Potassium	SW-846 6010B	1	111995708003	07/25/2011 21:01	John P Hook	1
01667	Sodium	SW-846 6010B	1	111995708003	07/25/2011 21:01	John P Hook	1
07968	Strontium	SW-846 6010B	1	111995708003	07/25/2011 21:01	John P Hook	1
06969	Tin	SW-846 6010B	1	111995708003	07/25/2011 21:01	John P Hook	1
06970	Titanium	SW-846 6010B	1	112075708001	07/27/2011 15:46	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111995708003	07/25/2011 21:01	John P Hook	1
06124	Antimony	SW-846 6020	1	111991026002A	07/25/2011 08:49	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-071-SA6-SB-6.0-7.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA6-SB-6.0-7.0

LLI Sample # SW 6345447
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:45

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0014 SDG#: DE200-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	111991026002A	07/25/2011 08:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111991026002D	07/25/2011 08:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111991026002A	07/25/2011 08:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111991026002A	07/25/2011 08:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111991026002A	07/25/2011 08:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111991026002A	07/25/2011 08:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111991026002A	07/25/2011 08:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111991026002A	07/25/2011 08:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111991026002C	07/25/2011 08:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111991026002A	07/25/2011 08:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111991026002B	07/25/2011 08:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111991026002A	07/25/2011 08:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111991026002A	07/25/2011 08:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111991026002A	07/25/2011 08:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111991026002A	07/25/2011 08:49	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111995711003	07/19/2011 08:28	Damary Valentin	10
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708003	07/18/2011 22:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112075708001	07/26/2011 22:49	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026002	07/18/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711003	07/19/2011 02:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621202B	07/28/2011 20:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206206201B	07/27/2011 11:13	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11208243202A	07/28/2011 16:13	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621202B	07/26/2011 08:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206206201B	07/25/2011 15:20	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039404B	07/25/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243202A	07/27/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11199162401B	07/18/2011 20:06	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-074-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345448
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E015- SDG#: DE200-15BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	28		6.9	8.2		0.96
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.96
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.96
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.96
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.96
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.96
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.2		0.96
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.96
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.96
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.96
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.96
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.96
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.96
06192	Chloroform	67-66-3	0.17	J	0.12	4.1		0.96
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.96
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.96
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.96
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.1		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.96
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.96
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.96
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.96
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.96
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.96
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.96
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.96
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.96
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.96
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.96
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.96
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.96
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.96
06192	Freon 133a	75-88-7	0.52	U	0.52	5.1		0.96
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.96
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.96
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.96
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.96
06192	Methylene Chloride	75-09-2	82		0.25	4.1		0.96
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.96

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Sample Description: SL-074-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345448
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E015- SDG#: DE200-15BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.96
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.96
06192	Toluene	108-88-3	0.12	J	0.08	4.1		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.96
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.96
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.96
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.96
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.96
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.7	U	5.7	17		26.54
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: SL-074-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345448
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E015- SDG#: DE200-15BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.3		0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	3.5		0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.3		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.82	J	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	4.7		0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	7.9	J	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	3.0		0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1

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Sample Description: SL-074-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345448
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E015- SDG#: DE200-15BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	3.6		0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	J	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	1.3	J	0.71	1.8		1
10138	Pyrene	129-00-0	2.6		0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25.83
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.4	U	5.4	18		5
10225	Aroclor 5442	12642-23-8	5.4	U	5.4	18		5
10225	Aroclor 5460	11126-42-4	85		5.4	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.1		5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.1		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.1		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.1		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.1		5
10225	PCB-1254	11097-69-1	63		1.8	9.1		5
10225	PCB-1260	11096-82-5	2.1	U	2.1	9.1		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.1		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.1		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1

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Sample Description: SL-074-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345448
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E015- SDG#: DE200-15BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.86	U	0.86	2.6		2
10199	EFH (C15-C20)	n.a.	0.86	U	0.86	2.6		2
10199	EFH (C21-C30)	n.a.	21		0.86	2.6		2
10199	EFH (C30 - C40)	n.a.	61		0.86	2.6		2
10199	EFH (C8-C11)	n.a.	0.86	U	0.86	2.6		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,000		6.26	20.7		1
07914	Boron	7440-42-8	2.14	J	0.376	5.22		1
01650	Calcium	7440-70-2	4,720		2.61	20.9		1
01654	Iron	7439-89-6	19,500		2.72	20.9		1
01656	Lithium	7439-93-2	9.4		0.65	2.1		1
01657	Magnesium	7439-95-4	4,220		0.459	10.4		1
06958	Manganese	7439-96-5	164		0.0376	0.522		1
10145	Phosphorus	7723-14-0	377		0.365	10.4		1
01662	Potassium	7440-09-7	2,330		11.8	52.2		1
01667	Sodium	7440-23-5	306		6.21	104		1
07968	Strontium	7440-24-6	29.6		0.0261	0.522		1
06969	Tin	7440-31-5	2.31	J	0.334	10.4		1
06970	Titanium	7440-32-6	891		0.0734	1.03		1
10146	Zirconium	7440-67-7	2.66	J	0.480	5.22		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.256		0.0780	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.29		0.0843	0.422		2
06126	Barium	7440-39-3	83.2		0.112	0.422		2
06127	Beryllium	7440-41-7	1.08		0.0169	0.105		2
06128	Cadmium	7440-43-9	0.116		0.0464	0.105		2
06131	Chromium	7440-47-3	15.1		0.127	0.422		2
06132	Cobalt	7440-48-4	7.09		0.0211	0.105		2
06133	Copper	7440-50-8	12.1		0.0843	0.422		2
06135	Lead	7439-92-1	8.68		0.0108	0.211		2
06138	Molybdenum	7439-98-7	0.886		0.0527	0.105		2
06139	Nickel	7440-02-0	10.6		0.105	0.422		2
06141	Selenium	7782-49-2	0.172	J	0.0611	0.422		2
06142	Silver	7440-22-4	0.0372	J	0.0150	0.105		2
06145	Thallium	7440-28-0	0.244		0.0316	0.105		2
06148	Vanadium	7440-62-2	38.7		0.0232	0.105		2
06149	Zinc	7440-66-6	56.7		0.590	3.16		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.647		0.0074	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-074-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345448
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E015- SDG#: DE200-15BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.86	1.1		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38	J	0.22	1.1		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.83		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	7.0		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-074-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B112011AA	07/20/2011 18:40	Sara E Johnson	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111961AA	07/15/2011 16:28	Jason M Long	26.54
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201119624918	07/15/2011 15:15	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201119624918	07/15/2011 15:34	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201119624918	07/15/2011 15:34	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201119624918	07/15/2011 15:15	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11202SLA026	08/02/2011 01:31	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11202SLC026	07/29/2011 10:01	Brian K Graham	1

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Sample Description: SL-074-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345448
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E015- SDG#: DE200-15BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11202SLC026	07/23/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11202SLA026	07/22/2011 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11199A34A	07/19/2011 12:26	Marie D John	25.83
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119624918	07/15/2011 15:15	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060004A	07/27/2011 00:07	Sarah M Snyder	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060004A	07/25/2011 14:30	Wanda F Oswald	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111990026A	07/21/2011 03:43	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111990002A	07/19/2011 12:54	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112030005A	07/26/2011 07:24	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112040003A	07/26/2011 09:01	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112040003A	07/25/2011 02:45	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	112030005A	07/25/2011 07:30	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111990026A	07/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111990002A	07/18/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708001	07/27/2011 14:18	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111995708003	07/25/2011 19:19	John P Hook	1
01650	Calcium	SW-846 6010B	1	111995708003	07/25/2011 19:19	John P Hook	1
01654	Iron	SW-846 6010B	1	111995708003	07/25/2011 19:19	John P Hook	1
01656	Lithium	SW-846 6010B	1	111995708003	07/25/2011 19:19	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111995708003	07/25/2011 19:19	John P Hook	1
06958	Manganese	SW-846 6010B	1	111995708003	07/25/2011 19:19	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111995708003	07/25/2011 19:19	John P Hook	1
01662	Potassium	SW-846 6010B	1	111995708003	07/25/2011 19:19	John P Hook	1
01667	Sodium	SW-846 6010B	1	111995708003	07/25/2011 19:19	John P Hook	1
07968	Strontium	SW-846 6010B	1	111995708003	07/25/2011 19:19	John P Hook	1
06969	Tin	SW-846 6010B	1	111995708003	07/25/2011 19:19	John P Hook	1
06970	Titanium	SW-846 6010B	1	112075708001	07/27/2011 14:18	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111995708003	07/25/2011 19:19	John P Hook	1
06124	Antimony	SW-846 6020	1	111991026002A	07/25/2011 07:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111991026002A	07/25/2011 07:38	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111991026002D	07/25/2011 07:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111991026002A	07/25/2011 07:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111991026002A	07/25/2011 07:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111991026002A	07/25/2011 07:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111991026002A	07/25/2011 07:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111991026002A	07/25/2011 07:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111991026002A	07/25/2011 07:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111991026002C	07/25/2011 07:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111991026002A	07/25/2011 07:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111991026002B	07/25/2011 07:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111991026002A	07/25/2011 07:38	Choon Y Tian	2

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Sample Description: SL-074-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345448
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E015- SDG#: DE200-15BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	111991026002A	07/25/2011 07:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111991026002A	07/25/2011 07:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111991026002A	07/25/2011 07:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111995711003	07/19/2011 07:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708003	07/18/2011 22:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112075708001	07/26/2011 22:49	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026002	07/18/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711003	07/19/2011 02:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621202B	07/28/2011 19:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206206201B	07/28/2011 21:03	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11208243202A	07/28/2011 16:26	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621202B	07/26/2011 08:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206206201B	07/25/2011 15:20	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039404B	07/25/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243202A	07/27/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11199162401B	07/18/2011 20:06	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-074-SA6-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345449
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E015- SDG#: DE200-15MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	330	7.6	9.1		1.05
06192	Benzene	71-43-2	28	0.11	4.5		1.05
06192	Bromobenzene	108-86-1	24	0.15	4.5		1.05
06192	Bromochloromethane	74-97-5	29	0.37	4.5		1.05
06192	Bromodichloromethane	75-27-4	28	0.09	4.5		1.05
06192	Bromoform	75-25-2	25	0.45	4.5		1.05
06192	Bromomethane	74-83-9	16	0.28	4.5		1.05
06192	2-Butanone	78-93-3	210	1.4	9.1		1.05
06192	n-Butylbenzene	104-51-8	23	0.14	4.5		1.05
06192	sec-Butylbenzene	135-98-8	24	0.07	4.5		1.05
06192	tert-Butylbenzene	98-06-6	23	0.18	4.5		1.05
06192	Carbon Tetrachloride	56-23-5	31	0.16	4.5		1.05
06192	Chlorobenzene	108-90-7	26	0.12	4.5		1.05
06192	Chloroethane	75-00-3	15	0.15	4.5		1.05
06192	2-Chloroethyl Vinyl Ether	110-75-8	22	0.34	4.5		1.05
06192	Chloroform	67-66-3	30	0.14	4.5		1.05
06192	Chloromethane	74-87-3	19	0.37	4.5		1.05
06192	2-Chlorotoluene	95-49-8	24	0.16	4.5		1.05
06192	4-Chlorotoluene	106-43-4	25	0.16	4.5		1.05
06192	1,2-Dibromo-3-chloropropane	96-12-8	26	0.79	4.5		1.05
06192	Dibromochloromethane	124-48-1	26	0.23	4.5		1.05
06192	1,2-Dibromoethane	106-93-4	26	0.19	4.5		1.05
06192	Dibromomethane	74-95-3	27	0.27	4.5		1.05
06192	1,2-Dichlorobenzene	95-50-1	24	0.10	4.5		1.05
06192	1,3-Dichlorobenzene	541-73-1	23	0.14	4.5		1.05
06192	1,4-Dichlorobenzene	106-46-7	24	0.18	4.5		1.05
06192	Dichlorodifluoromethane	75-71-8	17	0.14	4.5		1.05
06192	1,1-Dichloroethane	75-34-3	28	0.11	4.5		1.05
06192	1,2-Dichloroethane	107-06-2	31	0.17	4.5		1.05
06192	1,1-Dichloroethene	75-35-4	32	0.44	4.5		1.05
06192	cis-1,2-Dichloroethene	156-59-2	28	0.22	4.5		1.05
06192	trans-1,2-Dichloroethene	156-60-5	29	0.14	4.5		1.05
06192	1,2-Dichloropropane	78-87-5	26	0.19	4.5		1.05
06192	1,3-Dichloropropane	142-28-9	26	0.09	4.5		1.05
06192	2,2-Dichloropropane	594-20-7	31	0.19	4.5		1.05
06192	1,1-Dichloropropene	563-58-6	28	0.15	4.5		1.05
06192	cis-1,3-Dichloropropene	10061-01-5	25	0.18	4.5		1.05
06192	trans-1,3-Dichloropropene	10061-02-6	24	0.19	4.5		1.05
06192	Ethylbenzene	100-41-4	26	0.07	4.5		1.05
06192	Freon 113	76-13-1	32	0.12	4.5		1.05
06192	Hexachlorobutadiene	87-68-3	19	0.16	4.5		1.05
06192	2-Hexanone	591-78-6	130	1.8	9.1		1.05
06192	Isopropylbenzene	98-82-8	26	0.07	4.5		1.05
06192	p-Isopropyltoluene	99-87-6	23	0.12	4.5		1.05
06192	Methyl Tertiary Butyl Ether	1634-04-4	28	0.24	4.5		1.05
06192	4-Methyl-2-pentanone	108-10-1	130	0.44	9.1		1.05
06192	Methylene Chloride	75-09-2	54	0.27	4.5		1.05
06192	n-Propylbenzene	103-65-1	25	0.08	4.5		1.05
06192	Styrene	100-42-5	26	0.11	4.5		1.05
06192	1,1,1,2-Tetrachloroethane	630-20-6	27	0.12	4.5		1.05

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Sample Description: SL-074-SA6-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345449
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E015- SDG#: DE200-15MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	1,1,2,2-Tetrachloroethane	79-34-5	24		0.26	4.5		1.05
06192	Tetrachloroethene	127-18-4	28		0.23	4.5		1.05
06192	Toluene	108-88-3	27		0.09	4.5		1.05
06192	1,2,3-Trichlorobenzene	87-61-6	20		0.16	4.5		1.05
06192	1,2,4-Trichlorobenzene	120-82-1	18		0.20	4.5		1.05
06192	1,1,1-Trichloroethane	71-55-6	30		0.23	4.5		1.05
06192	1,1,2-Trichloroethane	79-00-5	27		0.31	4.5		1.05
06192	Trichloroethene	79-01-6	28		0.17	4.5		1.05
06192	Trichlorofluoromethane	75-69-4	27		0.33	4.5		1.05
06192	1,2,3-Trichloropropane	96-18-4	26		0.37	4.5		1.05
06192	1,2,4-Trimethylbenzene	95-63-6	24		0.45	4.5		1.05
06192	1,3,5-Trimethylbenzene	108-67-8	25		0.11	4.5		1.05
06192	Vinyl Chloride	75-01-4	19		0.23	4.5		1.05
06192	m+p-Xylene	179601-23-1	53		0.19	4.5		1.05
06192	o-Xylene	95-47-6	25		0.19	4.5		1.05
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	100		5.2	16		24.22
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700		18	180		1
04688	Acenaphthylene	208-96-8	1,900		18	180		1
04688	Aniline	62-53-3	1,300		180	540		1
04688	Anthracene	120-12-7	1,800		18	180		1
04688	Benzidine	92-87-5	3,200	J	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	1,900		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,900		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,900		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,700		18	180		1
04688	Benzoic acid	65-85-0	1,100		180	540		1
04688	Benzyl alcohol	100-51-6	1,700		180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		18	180		1
04688	Butylbenzylphthalate	85-68-7	1,800		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,800		18	180		1
04688	Carbazole	86-74-8	1,600		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		36	180		1
04688	4-Chloroaniline	106-47-8	760		72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,400		18	180		1
04688	2-Chlorophenol	95-57-8	1,700		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		36	180		1
04688	Chrysene	218-01-9	1,800		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	2,000		18	180		1
04688	Dibenzofuran	132-64-9	1,700		18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,600		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,600		18	180		1

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Sample Description: SL-074-SA6-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345449
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E015- SDG#: DE200-15MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,4-Dichlorobenzene	106-46-7	1,600		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,500		110	360		1
04688	2,4-Dichlorophenol	120-83-2	1,800		18	180		1
04688	Diethylphthalate	84-66-2	1,700		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,700		36	180		1
04688	3,5-Dimethylphenol	108-68-9	1,700		36	180		1
04688	Dimethylphthalate	131-11-3	1,700		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,400		180	540		1
04688	2,4-Dinitrophenol	51-28-5	2,200		360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,700		36	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,700		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		18	360		1
04688	Fluoranthene	206-44-0	1,700		18	180		1
04688	Fluorene	86-73-7	1,800		18	180		1
04688	Hexachlorobenzene	118-74-1	1,800		18	180		1
04688	Hexachlorobutadiene	87-68-3	1,900		72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	3,400		180	540		1
04688	Hexachloroethane	67-72-1	1,600		18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900		18	180		1
04688	Isophorone	78-59-1	1,700		18	180		1
04688	1-Methylnaphthalene	90-12-0	1,600		18	180		1
04688	2-Methylnaphthalene	91-57-6	1,700		18	180		1
04688	2-Methylphenol	95-48-7	1,700		36	180		1
04688	4-Methylphenol	106-44-5	1,600		36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,600		18	180		1
04688	2-Nitroaniline	88-74-4	1,800		18	180		1
04688	3-Nitroaniline	99-09-2	1,600		36	180		1
04688	4-Nitroaniline	100-01-6	1,300		72	180		1
04688	Nitrobenzene	98-95-3	1,700		18	180		1
04688	2-Nitrophenol	88-75-5	1,800		18	180		1
04688	4-Nitrophenol	100-02-7	1,500		180	540		1
04688	N-Nitrosodimethylamine	62-75-9	1,400		36	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700		18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800		18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,900		18	180		1
04688	Pentachlorophenol	87-86-5	1,500		180	540		1
04688	Phenanthrene	85-01-8	1,700		18	180		1
04688	Phenol	108-95-2	1,600		18	180		1
04688	Pyrene	129-00-0	1,700		18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							

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Sample Description: SL-074-SA6-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345449
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E015- SDG#: DE200-15MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	1,800		18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,900		36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	2,000		36	180		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	34		0.72	1.8		1
10138	Acenaphthylene	208-96-8	34		0.36	1.8		1
10138	Anthracene	120-12-7	39		0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	45		0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	51		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	66		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	19		0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	55		0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	38		6.5	19		1
10138	Di-n-butylphthalate	84-74-2	43		6.5	19		1
10138	Chrysene	218-01-9	44		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	20		0.72	1.8		1
10138	Diethylphthalate	84-66-2	38		6.5	19		1
10138	Dimethylphthalate	131-11-3	37		6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	48		6.5	19		1
10138	Fluoranthene	206-44-0	62		0.72	1.8		1
10138	Fluorene	86-73-7	37		0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	22		0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	31		0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	30		0.72	1.8		1
10138	Naphthalene	91-20-3	31		0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	33		0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	78		6.5	19		1
10138	Phenanthrene	85-01-8	40		0.72	1.8		1
10138	Pyrene	129-00-0	44		0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	8.3		0.2	1.2		26.77
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.4	U	5.4	18		5
10225	Aroclor 5442	12642-23-8	5.4	U	5.4	18		5
10225	Aroclor 5460	11126-42-4	240		5.4	18		5
10225	PCB-1016	12674-11-2	23		1.8	9.1		5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.1		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.1		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.1		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.1		5
10225	PCB-1254	11097-69-1	130		1.8	9.1		5

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Sample Description: SL-074-SA6-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345449
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E015- SDG#: DE200-15MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	36		2.1	9.1		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.1		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.1		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	2,000		110	540		1
10501	Methanol	67-56-1	2,200		110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	71		5.4	11		1
08283	Ethylene glycol	107-21-1	120		5.4	11		1
08283	Propylene glycol	57-55-6	120		5.4	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.4	J	1.3	3.8		1
10318	o-Terphenyl	84-15-1	1.6	J	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	J	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.94	J	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	2.1		0.43	1.3		1
10199	EFH (C21-C30)	n.a.	7.8		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	21		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.70	J	0.43	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,200		6.38	21.1		1
07914	Boron	7440-42-8	203		0.380	5.27		1
01650	Calcium	7440-70-2	4,850		2.64	21.1		1
01654	Iron	7439-89-6	19,100		2.75	21.1		1
01656	Lithium	7439-93-2	118		0.65	2.1		1
01657	Magnesium	7439-95-4	5,230		0.464	10.5		1
06958	Manganese	7439-96-5	205		0.0380	0.527		1
10145	Phosphorus	7723-14-0	480		0.369	10.5		1
01662	Potassium	7440-09-7	3,390		11.9	52.7		1
01667	Sodium	7440-23-5	1,330		6.27	105		1
07968	Strontium	7440-24-6	135		0.0264	0.527		1
06969	Tin	7440-31-5	387		0.337	10.5		1
06970	Titanium	7440-32-6	1,040		0.0748	1.05		1
10146	Zirconium	7440-67-7	105		0.485	5.27		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.13		0.0780	0.211		2

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Sample Description: SL-074-SA6-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345449
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E015- SDG#: DE200-15MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.2	0.0843	0.422		2
06126	Barium	7440-39-3	126	0.112	0.422		2
06127	Beryllium	7440-41-7	2.51	0.0169	0.105		2
06128	Cadmium	7440-43-9	2.12	0.0464	0.105		2
06131	Chromium	7440-47-3	35.7	0.127	0.422		2
06132	Cobalt	7440-48-4	95.6	0.0211	0.105		2
06133	Copper	7440-50-8	34.7	0.0843	0.422		2
06135	Lead	7439-92-1	18.3	0.0108	0.211		2
06138	Molybdenum	7439-98-7	18.5	0.0527	0.105		2
06139	Nickel	7440-02-0	32.6	0.105	0.422		2
06141	Selenium	7782-49-2	3.52	0.0611	0.422		2
06142	Silver	7440-22-4	17.3	0.0150	0.105		2
06145	Thallium	7440-28-0	0.993	0.0316	0.105		2
06148	Vanadium	7440-62-2	69.4	0.0232	0.105		2
06149	Zinc	7440-66-6	94.8	0.590	3.16		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.824	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	12.4	0.86	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	496	9.7	32.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	37.0	1.1	5.4		5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	7.0	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-074-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Sample Description: SL-074-SA6-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345449
LLI Group # 1256494
Account # 13013

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E015- SDG#: DE200-15MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B112011AA	07/20/2011 22:02	Sara E Johnson	1.05
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111961AA	07/15/2011 16:48	Jason M Long	24.22
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201119624918	07/15/2011 15:18	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201119624918	07/15/2011 15:34	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201119624918	07/15/2011 15:34	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201119624918	07/15/2011 15:18	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11202SLA026	08/02/2011 01:56	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11202SLC026	07/29/2011 10:33	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11202SLC026	07/23/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11202SLA026	07/22/2011 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11199A34A	07/19/2011 13:02	Marie D John	26.77
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119624918	07/15/2011 15:18	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060004A	07/27/2011 00:25	Sarah M Snyder	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060004A	07/25/2011 14:30	Wanda F Oswald	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111990026A	07/21/2011 03:58	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111990002A	07/19/2011 14:11	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112030005A	07/26/2011 05:10	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112040003A	07/26/2011 06:55	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112040003A	07/25/2011 02:45	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	112030005A	07/25/2011 07:30	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111990026A	07/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111990002A	07/18/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708001	07/27/2011 14:29	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111995708003	07/25/2011 19:32	John P Hook	1
01650	Calcium	SW-846 6010B	1	111995708003	07/25/2011 19:32	John P Hook	1
01654	Iron	SW-846 6010B	1	111995708003	07/25/2011 19:32	John P Hook	1
01656	Lithium	SW-846 6010B	1	111995708003	07/25/2011 19:32	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111995708003	07/25/2011 19:32	John P Hook	1
06958	Manganese	SW-846 6010B	1	111995708003	07/25/2011 19:32	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111995708003	07/25/2011 19:32	John P Hook	1
01662	Potassium	SW-846 6010B	1	111995708003	07/25/2011 19:32	John P Hook	1
01667	Sodium	SW-846 6010B	1	111995708003	07/25/2011 19:32	John P Hook	1
07968	Strontium	SW-846 6010B	1	111995708003	07/25/2011 19:32	John P Hook	1
06969	Tin	SW-846 6010B	1	111995708003	07/25/2011 19:32	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-074-SA6-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345449
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E015- SDG#: DE200-15MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112075708001	07/27/2011 14:29	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111995708003	07/25/2011 19:32	John P Hook	1
06124	Antimony	SW-846 6020	1	111991026002A	07/25/2011 07:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111991026002A	07/25/2011 07:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111991026002D	07/25/2011 07:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111991026002A	07/25/2011 07:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111991026002A	07/25/2011 07:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111991026002A	07/25/2011 07:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111991026002A	07/25/2011 07:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111991026002A	07/25/2011 07:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111991026002A	07/25/2011 07:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111991026002C	07/25/2011 07:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111991026002A	07/25/2011 07:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111991026002B	07/25/2011 07:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111991026002A	07/25/2011 07:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111991026002A	07/25/2011 07:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111991026002A	07/25/2011 07:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111991026002A	07/25/2011 07:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111995711003	07/19/2011 08:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708003	07/18/2011 22:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112075708001	07/26/2011 22:49	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026002	07/18/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711003	07/19/2011 02:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621202B	07/28/2011 19:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11206206201B	08/05/2011 16:33	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11208243202A	07/28/2011 16:39	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621202B	07/26/2011 08:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11206206201B	08/03/2011 17:45	Alex M Rittle	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243202A	07/27/2011 11:40	Yolunder Y Bunch	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11199162401B	07/18/2011 20:06	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-074-SA6-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345450
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E015- SDG#: DE200-15MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	290	7.3	8.8		1.02
06192	Benzene	71-43-2	25	0.11	4.4		1.02
06192	Bromobenzene	108-86-1	22	0.14	4.4		1.02
06192	Bromochloromethane	74-97-5	26	0.36	4.4		1.02
06192	Bromodichloromethane	75-27-4	25	0.09	4.4		1.02
06192	Bromoform	75-25-2	23	0.44	4.4		1.02
06192	Bromomethane	74-83-9	14	0.27	4.4		1.02
06192	2-Butanone	78-93-3	190	1.3	8.8		1.02
06192	n-Butylbenzene	104-51-8	22	0.13	4.4		1.02
06192	sec-Butylbenzene	135-98-8	22	0.07	4.4		1.02
06192	tert-Butylbenzene	98-06-6	22	0.18	4.4		1.02
06192	Carbon Tetrachloride	56-23-5	28	0.15	4.4		1.02
06192	Chlorobenzene	108-90-7	24	0.12	4.4		1.02
06192	Chloroethane	75-00-3	12	0.14	4.4		1.02
06192	2-Chloroethyl Vinyl Ether	110-75-8	19	0.33	4.4		1.02
06192	Chloroform	67-66-3	27	0.13	4.4		1.02
06192	Chloromethane	74-87-3	16	0.36	4.4		1.02
06192	2-Chlorotoluene	95-49-8	22	0.15	4.4		1.02
06192	4-Chlorotoluene	106-43-4	23	0.15	4.4		1.02
06192	1,2-Dibromo-3-chloropropane	96-12-8	24	0.77	4.4		1.02
06192	Dibromochloromethane	124-48-1	24	0.22	4.4		1.02
06192	1,2-Dibromoethane	106-93-4	24	0.19	4.4		1.02
06192	Dibromomethane	74-95-3	24	0.26	4.4		1.02
06192	1,2-Dichlorobenzene	95-50-1	22	0.1	4.4		1.02
06192	1,3-Dichlorobenzene	541-73-1	21	0.13	4.4		1.02
06192	1,4-Dichlorobenzene	106-46-7	22	0.18	4.4		1.02
06192	Dichlorodifluoromethane	75-71-8	14	0.13	4.4		1.02
06192	1,1-Dichloroethane	75-34-3	25	0.11	4.4		1.02
06192	1,2-Dichloroethane	107-06-2	28	0.16	4.4		1.02
06192	1,1-Dichloroethene	75-35-4	28	0.43	4.4		1.02
06192	cis-1,2-Dichloroethene	156-59-2	25	0.21	4.4		1.02
06192	trans-1,2-Dichloroethene	156-60-5	26	0.13	4.4		1.02
06192	1,2-Dichloropropane	78-87-5	23	0.19	4.4		1.02
06192	1,3-Dichloropropane	142-28-9	23	0.09	4.4		1.02
06192	2,2-Dichloropropane	594-20-7	28	0.19	4.4		1.02
06192	1,1-Dichloropropene	563-58-6	25	0.14	4.4		1.02
06192	cis-1,3-Dichloropropene	10061-01-5	23	0.18	4.4		1.02
06192	trans-1,3-Dichloropropene	10061-02-6	22	0.19	4.4		1.02
06192	Ethylbenzene	100-41-4	23	0.07	4.4		1.02
06192	Freon 113	76-13-1	29	0.12	4.4		1.02
06192	Hexachlorobutadiene	87-68-3	18	0.15	4.4		1.02
06192	2-Hexanone	591-78-6	120	1.8	8.8		1.02
06192	Isopropylbenzene	98-82-8	24	0.07	4.4		1.02
06192	p-Isopropyltoluene	99-87-6	22	0.12	4.4		1.02
06192	Methyl Tertiary Butyl Ether	1634-04-4	25	0.23	4.4		1.02
06192	4-Methyl-2-pentanone	108-10-1	120	0.43	8.8		1.02
06192	Methylene Chloride	75-09-2	47	0.26	4.4		1.02
06192	n-Propylbenzene	103-65-1	23	0.08	4.4		1.02
06192	Styrene	100-42-5	24	0.11	4.4		1.02
06192	1,1,1,2-Tetrachloroethane	630-20-6	25	0.12	4.4		1.02

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-074-SA6-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345450
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E015- SDG#: DE200-15MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	1,1,2,2-Tetrachloroethane	79-34-5	22	0.25	4.4		1.02
06192	Tetrachloroethene	127-18-4	26	0.22	4.4		1.02
06192	Toluene	108-88-3	24	0.09	4.4		1.02
06192	1,2,3-Trichlorobenzene	87-61-6	18	0.15	4.4		1.02
06192	1,2,4-Trichlorobenzene	120-82-1	16	0.20	4.4		1.02
06192	1,1,1-Trichloroethane	71-55-6	27	0.22	4.4		1.02
06192	1,1,2-Trichloroethane	79-00-5	24	0.30	4.4		1.02
06192	Trichloroethene	79-01-6	25	0.16	4.4		1.02
06192	Trichlorofluoromethane	75-69-4	23	0.32	4.4		1.02
06192	1,2,3-Trichloropropane	96-18-4	23	0.36	4.4		1.02
06192	1,2,4-Trimethylbenzene	95-63-6	22	0.44	4.4		1.02
06192	1,3,5-Trimethylbenzene	108-67-8	23	0.11	4.4		1.02
06192	Vinyl Chloride	75-01-4	17	0.22	4.4		1.02
06192	m+p-Xylene	179601-23-1	48	0.19	4.4		1.02
06192	o-Xylene	95-47-6	23	0.19	4.4		1.02
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	120	5.6	17		25.93
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800	18	180		1
04688	Acenaphthylene	208-96-8	1,900	18	180		1
04688	Aniline	62-53-3	1,300	180	540		1
04688	Anthracene	120-12-7	1,800	18	180		1
04688	Benzidine	92-87-5	5,000	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	1,900	18	180		1
04688	Benzo(a)pyrene	50-32-8	2,000	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,900	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	2,000	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,800	18	180		1
04688	Benzoic acid	65-85-0	960	180	540		1
04688	Benzyl alcohol	100-51-6	1,600	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800	18	180		1
04688	Butylbenzylphthalate	85-68-7	1,800	18	180		1
04688	Di-n-butylphthalate	84-74-2	1,800	18	180		1
04688	Carbazole	86-74-8	1,700	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700	36	180		1
04688	4-Chloroaniline	106-47-8	1,000	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600	18	180		1
04688	2-Chloronaphthalene	91-58-7	1,400	18	180		1
04688	2-Chlorophenol	95-57-8	1,700	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800	36	180		1
04688	Chrysene	218-01-9	1,800	18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	2,000	18	180		1
04688	Dibenzofuran	132-64-9	1,800	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,600	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,600	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-074-SA6-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345450
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E015- SDG#: DE200-15MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,4-Dichlorobenzene	106-46-7	1,600		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,500		110	360		1
04688	2,4-Dichlorophenol	120-83-2	1,700		18	180		1
04688	Diethylphthalate	84-66-2	1,800		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,800		36	180		1
04688	3,5-Dimethylphenol	108-68-9	1,700		36	180		1
04688	Dimethylphthalate	131-11-3	1,800		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,300		180	540		1
04688	2,4-Dinitrophenol	51-28-5	2,200		360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,700		36	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,800		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		18	360		1
04688	Fluoranthene	206-44-0	1,800		18	180		1
04688	Fluorene	86-73-7	1,800		18	180		1
04688	Hexachlorobenzene	118-74-1	1,700		18	180		1
04688	Hexachlorobutadiene	87-68-3	1,900		72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	3,300		180	540		1
04688	Hexachloroethane	67-72-1	1,600		18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,000		18	180		1
04688	Isophorone	78-59-1	1,700		18	180		1
04688	1-Methylnaphthalene	90-12-0	1,700		18	180		1
04688	2-Methylnaphthalene	91-57-6	1,700		18	180		1
04688	2-Methylphenol	95-48-7	1,700		36	180		1
04688	4-Methylphenol	106-44-5	1,600		36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,700		18	180		1
04688	2-Nitroaniline	88-74-4	1,900		18	180		1
04688	3-Nitroaniline	99-09-2	1,700		36	180		1
04688	4-Nitroaniline	100-01-6	1,400		72	180		1
04688	Nitrobenzene	98-95-3	1,700		18	180		1
04688	2-Nitrophenol	88-75-5	1,800		18	180		1
04688	4-Nitrophenol	100-02-7	1,600		180	540		1
04688	N-Nitrosodimethylamine	62-75-9	1,400		36	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600		18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800		18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	2,000		18	180		1
04688	Pentachlorophenol	87-86-5	1,700		180	540		1
04688	Phenanthrene	85-01-8	1,700		18	180		1
04688	Phenol	108-95-2	1,600		18	180		1
04688	Pyrene	129-00-0	1,700		18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-074-SA6-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345450
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E015- SDG#: DE200-15MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	1,800		18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,900		36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	2,000		36	180		1
The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.								
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	33		0.71	1.8		1
10138	Acenaphthylene	208-96-8	32		0.36	1.8		1
10138	Anthracene	120-12-7	39		0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	65		0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	65		0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	72		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	47		0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	49		0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	39		6.4	19		1
10138	Di-n-butylphthalate	84-74-2	40		6.4	19		1
10138	Chrysene	218-01-9	65		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	41		0.71	1.8		1
10138	Diethylphthalate	84-66-2	41		6.4	19		1
10138	Dimethylphthalate	131-11-3	36		6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	46		6.4	19		1
10138	Fluoranthene	206-44-0	73		0.71	1.8		1
10138	Fluorene	86-73-7	34		0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	57		0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	31		0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	30		0.71	1.8		1
10138	Naphthalene	91-20-3	30		0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	31		0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	33		6.4	19		1
10138	Phenanthrene	85-01-8	47		0.71	1.8		1
10138	Pyrene	129-00-0	74		0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	8.5		0.2	1.1		26.37
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.4	U	5.4	18		5
10225	Aroclor 5442	12642-23-8	5.4	U	5.4	18		5
10225	Aroclor 5460	11126-42-4	71		5.4	18		5
10225	PCB-1016	12674-11-2	22		1.8	9.1		5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.1		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.1		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.1		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.1		5
10225	PCB-1254	11097-69-1	78		1.8	9.1		5

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Sample Description: SL-074-SA6-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345450
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E015- SDG#: DE200-15MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	28		2.1	9.1		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.1		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.1		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	160	J	110	540		1
10501	Isopropanol	67-63-0	2,100		110	540		1
10501	Methanol	67-56-1	2,200		110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	84		5.4	11		1
08283	Ethylene glycol	107-21-1	140		5.4	11		1
08283	Propylene glycol	57-55-6	150		5.4	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.4	J	1.4	3.8		1
10318	o-Terphenyl	84-15-1	1.8	J	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	J	1.5	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.4		5
10199	EFH (C15-C20)	n.a.	4.1	J	2.2	6.4		5
10199	EFH (C21-C30)	n.a.	40		2.2	6.4		5
10199	EFH (C30 - C40)	n.a.	120		2.2	6.4		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.4		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,900		6.51	21.5		1
07914	Boron	7440-42-8	204		0.376	5.22		1
01650	Calcium	7440-70-2	4,960		2.61	20.9		1
01654	Iron	7439-89-6	19,900		2.72	20.9		1
01656	Lithium	7439-93-2	119		0.65	2.1		1
01657	Magnesium	7439-95-4	5,530		0.459	10.4		1
06958	Manganese	7439-96-5	230		0.0376	0.522		1
10145	Phosphorus	7723-14-0	497		0.365	10.4		1
01662	Potassium	7440-09-7	3,470		11.8	52.2		1
01667	Sodium	7440-23-5	1,350		6.21	104		1
07968	Strontium	7440-24-6	137		0.0261	0.522		1
06969	Tin	7440-31-5	382		0.334	10.4		1
06970	Titanium	7440-32-6	1,150		0.0763	1.08		1
10146	Zirconium	7440-67-7	103		0.480	5.22		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.01		0.0780	0.211		2

*=This limit was used in the evaluation of the final result
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Sample Description: SL-074-SA6-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345450
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E015- SDG#: DE200-15MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.26	0.0843	0.422		2
06126	Barium	7440-39-3	112	0.112	0.422		2
06127	Beryllium	7440-41-7	2.20	0.0169	0.105		2
06128	Cadmium	7440-43-9	1.77	0.0464	0.105		2
06131	Chromium	7440-47-3	29.8	0.127	0.422		2
06132	Cobalt	7440-48-4	78.1	0.0211	0.105		2
06133	Copper	7440-50-8	28.2	0.0843	0.422		2
06135	Lead	7439-92-1	14.9	0.0108	0.211		2
06138	Molybdenum	7439-98-7	15.4	0.0527	0.105		2
06139	Nickel	7440-02-0	27.2	0.105	0.422		2
06141	Selenium	7782-49-2	2.77	0.0611	0.422		2
06142	Silver	7440-22-4	14.6	0.0150	0.105		2
06145	Thallium	7440-28-0	0.850	0.0316	0.105		2
06148	Vanadium	7440-62-2	56.9	0.0232	0.105		2
06149	Zinc	7440-66-6	80.1	0.590	3.16		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	1.34	0.0366	0.521		5
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	7.0	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-074-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B112011AA	07/20/2011 19:25	Sara E Johnson	1.02
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111961AA	07/15/2011 17:08	Jason M Long	25.93
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201119624918	07/15/2011 15:22	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201119624918	07/15/2011 15:34	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201119624918	07/15/2011 15:34	Christopher D Meeks	n.a.

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Sample Description: SL-074-SA6-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345450
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E015- SDG#: DE200-15MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201119624918	07/15/2011 15:21	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11202SLA026	08/02/2011 02:21	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11202SLC026	07/30/2011 09:04	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11202SLC026	07/23/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11202SLA026	07/22/2011 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11199A34A	07/19/2011 13:45	Marie D John	26.37
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119624918	07/15/2011 15:21	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060004A	07/27/2011 00:44	Sarah M Snyder	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060004A	07/25/2011 14:30	Wanda F Oswald	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111990026A	07/21/2011 04:13	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111990002A	07/19/2011 14:24	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112030005A	07/26/2011 08:08	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112040003A	07/26/2011 10:16	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112040003A	07/25/2011 02:45	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	112030005A	07/25/2011 07:30	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111990026A	07/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111990002A	07/18/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708001	07/27/2011 14:33	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111995708003	07/25/2011 19:36	John P Hook	1
01650	Calcium	SW-846 6010B	1	111995708003	07/25/2011 19:36	John P Hook	1
01654	Iron	SW-846 6010B	1	111995708003	07/25/2011 19:36	John P Hook	1
01656	Lithium	SW-846 6010B	1	111995708003	07/25/2011 19:36	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111995708003	07/25/2011 19:36	John P Hook	1
06958	Manganese	SW-846 6010B	1	111995708003	07/25/2011 19:36	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111995708003	07/25/2011 19:36	John P Hook	1
01662	Potassium	SW-846 6010B	1	111995708003	07/25/2011 19:36	John P Hook	1
01667	Sodium	SW-846 6010B	1	111995708003	07/25/2011 19:36	John P Hook	1
07968	Strontium	SW-846 6010B	1	111995708003	07/25/2011 19:36	John P Hook	1
06969	Tin	SW-846 6010B	1	111995708003	07/25/2011 19:36	John P Hook	1
06970	Titanium	SW-846 6010B	1	112075708001	07/27/2011 14:33	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111995708003	07/25/2011 19:36	John P Hook	1
06124	Antimony	SW-846 6020	1	111991026002A	07/25/2011 07:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111991026002A	07/25/2011 07:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111991026002D	07/25/2011 07:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111991026002A	07/25/2011 07:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111991026002A	07/25/2011 07:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111991026002A	07/25/2011 07:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111991026002A	07/25/2011 07:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111991026002A	07/25/2011 07:50	Choon Y Tian	2

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Sample Description: SL-074-SA6-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345450
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E015- SDG#: DE200-15MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	111991026002A	07/25/2011 07:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111991026002C	07/25/2011 07:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111991026002A	07/25/2011 07:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111991026002B	07/25/2011 07:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111991026002A	07/25/2011 07:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111991026002A	07/25/2011 07:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111991026002A	07/25/2011 07:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111991026002A	07/25/2011 07:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111995711003	07/19/2011 08:33	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708003	07/18/2011 22:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112075708001	07/26/2011 22:49	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026002	07/18/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711003	07/19/2011 02:15	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11199162401B	07/18/2011 20:06	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-074-SA6-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345451
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E015- SDG#: DE200-15DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,100		6.26	20.7		1
07914	Boron	7440-42-8	1.82	J	0.380	5.27		1
01650	Calcium	7440-70-2	4,260		2.64	21.1		1
01654	Iron	7439-89-6	18,000		2.75	21.1		1
01656	Lithium	7439-93-2	8.6		0.65	2.1		1
01657	Magnesium	7439-95-4	3,900		0.464	10.5		1
06958	Manganese	7439-96-5	139		0.0380	0.527		1
10145	Phosphorus	7723-14-0	367		0.369	10.5		1
01662	Potassium	7440-09-7	2,080		11.9	52.7		1
01667	Sodium	7440-23-5	292		6.27	105		1
07968	Strontium	7440-24-6	26.8		0.0264	0.527		1
06969	Tin	7440-31-5	2.28	J	0.337	10.5		1
06970	Titanium	7440-32-6	800		0.0734	1.03		1
10146	Zirconium	7440-67-7	3.24	J	0.485	5.27		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.155	J	0.0773	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.33		0.0835	0.418		2
06126	Barium	7440-39-3	78.2		0.111	0.418		2
06127	Beryllium	7440-41-7	0.678		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.159		0.0459	0.104		2
06131	Chromium	7440-47-3	13.1		0.125	0.418		2
06132	Cobalt	7440-48-4	7.28		0.0209	0.104		2
06133	Copper	7440-50-8	11.9		0.0835	0.418		2
06135	Lead	7439-92-1	8.81		0.0106	0.209		2
06138	Molybdenum	7439-98-7	0.928		0.0522	0.104		2
06139	Nickel	7440-02-0	9.25		0.104	0.418		2
06141	Selenium	7782-49-2	0.154	J	0.0605	0.418		2
06142	Silver	7440-22-4	0.0344	J	0.0148	0.104		2
06145	Thallium	7440-28-0	0.214		0.0313	0.104		2
06148	Vanadium	7440-62-2	33.4		0.0230	0.104		2
06149	Zinc	7440-66-6	54.7		0.585	3.13		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	1.12		0.0372	0.529		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.21	1.1		1

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Sample Description: SL-074-SA6-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345451
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E015- SDG#: DE200-15DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.79	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	7.1	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	7.0	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112075708001	07/27/2011 14:25	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111995708003	07/25/2011 19:28	John P Hook	1
01650	Calcium	SW-846 6010B	1	111995708003	07/25/2011 19:28	John P Hook	1
01654	Iron	SW-846 6010B	1	111995708003	07/25/2011 19:28	John P Hook	1
01656	Lithium	SW-846 6010B	1	111995708003	07/25/2011 19:28	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111995708003	07/25/2011 19:28	John P Hook	1
06958	Manganese	SW-846 6010B	1	111995708003	07/25/2011 19:28	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111995708003	07/25/2011 19:28	John P Hook	1
01662	Potassium	SW-846 6010B	1	111995708003	07/25/2011 19:28	John P Hook	1
01667	Sodium	SW-846 6010B	1	111995708003	07/25/2011 19:28	John P Hook	1
07968	Strontium	SW-846 6010B	1	111995708003	07/25/2011 19:28	John P Hook	1
06969	Tin	SW-846 6010B	1	111995708003	07/25/2011 19:28	John P Hook	1
06970	Titanium	SW-846 6010B	1	112075708001	07/27/2011 14:25	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111995708003	07/25/2011 19:28	John P Hook	1
06124	Antimony	SW-846 6020	1	111991026002A	07/25/2011 07:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111991026002A	07/25/2011 07:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111991026002D	07/25/2011 07:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111991026002A	07/25/2011 07:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111991026002A	07/25/2011 07:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111991026002A	07/25/2011 07:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111991026002A	07/25/2011 07:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111991026002A	07/25/2011 07:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111991026002A	07/25/2011 07:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111991026002C	07/25/2011 07:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111991026002A	07/25/2011 07:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111991026002B	07/25/2011 07:44	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-074-SA6-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345451
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E015- SDG#: DE200-15DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	111991026002A	07/25/2011 07:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111991026002A	07/25/2011 07:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111991026002A	07/25/2011 07:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111991026002A	07/25/2011 07:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111995711003	07/19/2011 08:30	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708003	07/18/2011 22:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112075708001	07/26/2011 22:49	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026002	07/18/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711003	07/19/2011 02:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621202B	07/28/2011 19:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206206201B	07/27/2011 08:55	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243202A	07/28/2011 17:26	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621202B	07/26/2011 08:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206206201B	07/25/2011 15:20	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039404B	07/25/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243202A	07/27/2011 11:40	Yolunder Y Bunch	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11199162401B	07/18/2011 20:06	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11199162401B	07/18/2011 20:06	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-074-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-9.0-10.0

LLI Sample # SW 6345452
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:35

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0016 SDG#: DE200-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	33	J	18	180		1
04688	Benzo(a)pyrene	50-32-8	33	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	41	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	35	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Chrysene	218-01-9	34	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Fluoranthene	206-44-0	51	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	21	J	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1

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Sample Description: SL-074-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-9.0-10.0

LLI Sample # SW 6345452
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:35

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0016 SDG#: DE200-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	45	J	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	5.7	J	3.6	9.0		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.0		5
10138	Anthracene	120-12-7	5.0	J	1.8	9.0		5
10138	Benzo(k)fluoranthene	207-08-9	15		3.6	9.0		5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	9.0		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	46	J	32	97		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.0		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.0		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.0		5
10138	Naphthalene	91-20-3	36		3.6	9.0		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.0		5
10138	Phenanthrene	85-01-8	12		3.6	9.0		5
	Reporting limits were raised due to interference from the sample matrix.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	2.9	U	2.9	14		325.52
	Reporting limits were raised due to sample foaming.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	220	U	220	720		200
10225	Aroclor 5442	12642-23-8	220	U	220	720		200
10225	Aroclor 5460	11126-42-4	1,400		220	720		200

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Sample Description: SL-074-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-9.0-10.0

LLI Sample # SW 6345452
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:35

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0016 SDG#: DE200-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1016	12674-11-2	72	U	72	370		200
10225	PCB-1221	11104-28-2	72	U	72	370		200
10225	PCB-1232	11141-16-5	72	U	72	370		200
10225	PCB-1242	53469-21-9	72	U	72	370		200
10225	PCB-1248	12672-29-6	72	U	72	370		200
10225	PCB-1254	11097-69-1	940		72	370		200
10225	PCB-1260	11096-82-5	85	U	85	370		200
10225	PCB-1262	37324-23-5	72	U	72	370		200
10225	PCB-1268	11100-14-4	72	U	72	370		200
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	240	J	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	11	U	11	33		25
10199	EFH (C15-C20)	n.a.	41		11	33		25
10199	EFH (C21-C30)	n.a.	170		11	33		25
10199	EFH (C30 - C40)	n.a.	750		11	33		25
10199	EFH (C8-C11)	n.a.	11	U	11	33		25
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,200		6.37	21.1		1
07914	Boron	7440-42-8	0.387	U	0.387	5.37		1
01650	Calcium	7440-70-2	15,800		2.68	21.5		1
01654	Iron	7439-89-6	46,300		14.0	107		5
01656	Lithium	7439-93-2	20.3		0.67	2.1		1
01657	Magnesium	7439-95-4	5,110		0.472	10.7		1
06958	Manganese	7439-96-5	316		0.0387	0.537		1
10145	Phosphorus	7723-14-0	480		0.376	10.7		1
01662	Potassium	7440-09-7	2,560		12.1	53.7		1
01667	Sodium	7440-23-5	308		6.39	107		1
07968	Strontium	7440-24-6	44.7		0.0268	0.537		1

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Sample Description: SL-074-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-9.0-10.0

LLI Sample # SW 6345452
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:35

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0016 SDG#: DE200-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	3.42	J	0.344	10.7		1
06970	Titanium	7440-32-6	965		0.0748	1.05		1
10146	Zirconium	7440-67-7	2.73	J	0.494	5.37		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.280		0.0787	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	16.5		0.0851	0.425		2
06126	Barium	7440-39-3	103		0.113	0.425		2
06127	Beryllium	7440-41-7	0.556		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.425		0.0468	0.106		2
06131	Chromium	7440-47-3	21.5		0.128	0.425		2
06132	Cobalt	7440-48-4	19.9		0.0213	0.106		2
06133	Copper	7440-50-8	22.7		0.0851	0.425		2
06135	Lead	7439-92-1	16.9		0.0108	0.213		2
06138	Molybdenum	7439-98-7	1.31		0.0532	0.106		2
06139	Nickel	7440-02-0	15.0		0.106	0.425		2
06141	Selenium	7782-49-2	0.132	J	0.0617	0.425		2
06142	Silver	7440-22-4	0.0542	J	0.0151	0.106		2
06145	Thallium	7440-28-0	0.237		0.0319	0.106		2
06148	Vanadium	7440-62-2	53.8		0.0234	0.106		2
06149	Zinc	7440-66-6	82.7		0.595	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	1.41		0.0383	0.544		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.87	U	0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.51	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	10.1		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-074-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-9.0-10.0

LLI Sample # SW 6345452
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:35

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0016 SDG#: DE200-16

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-074-SA6-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11202SLA026	08/02/2011 12:47	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11202SLC026	07/29/2011 07:56	Brian K Graham	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11202SLC026	07/23/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11202SLA026	07/22/2011 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11199A34A	07/19/2011 14:31	Marie D John	325.52
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119624918	07/15/2011 15:25	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060004A	07/27/2011 18:09	Sarah M Snyder	200
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060004A	07/25/2011 14:30	Wanda F Oswald	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111990026A	07/21/2011 04:27	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111990002A	07/19/2011 13:07	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112030005A	07/26/2011 15:32	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112040003A	07/26/2011 11:31	Heather E Williams	25
11238	EFH Extraction - Soils	SW-846 3550B	1	112040003A	07/25/2011 02:45	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	112030005A	07/25/2011 07:30	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111990026A	07/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111990002A	07/18/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708001	07/27/2011 15:50	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111995708003	07/25/2011 21:10	John P Hook	1
01650	Calcium	SW-846 6010B	1	111995708003	07/25/2011 21:10	John P Hook	1
01654	Iron	SW-846 6010B	1	111995708003	07/25/2011 21:14	John P Hook	5
01656	Lithium	SW-846 6010B	1	111995708003	07/25/2011 21:10	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111995708003	07/25/2011 21:10	John P Hook	1
06958	Manganese	SW-846 6010B	1	111995708003	07/25/2011 21:10	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111995708003	07/25/2011 21:10	John P Hook	1
01662	Potassium	SW-846 6010B	1	111995708003	07/25/2011 21:10	John P Hook	1
01667	Sodium	SW-846 6010B	1	111995708003	07/25/2011 21:10	John P Hook	1
07968	Strontium	SW-846 6010B	1	111995708003	07/25/2011 21:10	John P Hook	1
06969	Tin	SW-846 6010B	1	111995708003	07/25/2011 21:10	John P Hook	1
06970	Titanium	SW-846 6010B	1	112075708001	07/27/2011 15:50	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111995708003	07/25/2011 21:10	John P Hook	1
06124	Antimony	SW-846 6020	1	111991026002A	07/25/2011 08:52	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-074-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-9.0-10.0

LLI Sample # SW 6345452
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:35

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0016 SDG#: DE200-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	111991026002A	07/25/2011 08:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111991026002D	07/25/2011 08:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111991026002A	07/25/2011 08:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111991026002A	07/25/2011 08:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111991026002A	07/25/2011 08:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111991026002A	07/25/2011 08:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111991026002A	07/25/2011 08:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111991026002A	07/25/2011 08:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111991026002C	07/25/2011 08:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111991026002A	07/25/2011 08:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111991026002B	07/25/2011 08:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111991026002A	07/25/2011 08:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111991026002A	07/25/2011 08:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111991026002A	07/25/2011 08:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111991026002A	07/25/2011 08:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111995711003	07/19/2011 08:38	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708003	07/18/2011 22:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112075708001	07/26/2011 22:49	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026002	07/18/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711003	07/19/2011 02:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621202B	07/28/2011 20:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206206201B	07/27/2011 11:36	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11208243202A	07/28/2011 17:46	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621202B	07/26/2011 08:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206206201B	07/25/2011 15:20	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039404B	07/25/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243202A	07/27/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11199162401B	07/18/2011 20:06	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-088-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA6-SB-4.0-5.0

LLI Sample # SW 6345453
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:45

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0017 SDG#: DE200-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	21		6.7	8.0		0.92
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.92
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.92
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.92
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.92
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.92
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.92
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.92
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.92
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.92
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.92
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.92
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.92
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.92
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.92
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.92
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.92
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.92
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.92
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.92
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.92
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.92
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.92
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.92
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.92
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.92
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.92
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.92
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.92
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.92
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.92
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.92
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.92
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.92
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.92
06192	Methylene Chloride	75-09-2	5.7		0.24	4.0		0.92
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.92

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-088-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA6-SB-4.0-5.0

LLI Sample # SW 6345453
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:45

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0017 SDG#: DE200-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.92
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.92
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.92
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.92
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.92
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.92
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.92
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	15		23.76
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(g,h,i)perylene	191-24-2	29	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-088-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA6-SB-4.0-5.0

LLI Sample # SW 6345453
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:45

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0017 SDG#: DE200-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	21	J	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.0		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.0		5
10138	Anthracene	120-12-7	4.9	J	1.8	9.0		5
10138	Benzo(a)anthracene	56-55-3	34		3.6	9.0		5
10138	Benzo(a)pyrene	50-32-8	32		3.6	9.0		5
10138	Benzo(b)fluoranthene	205-99-2	50		3.6	9.0		5

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Sample Description: SL-088-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA6-SB-4.0-5.0

LLI Sample # SW 6345453
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:45

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0017 SDG#: DE200-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(k)fluoranthene	207-08-9	18		3.6	9.0		5
10138	Chrysene	218-01-9	32		1.8	9.0		5
10138	Dibenz(a,h)anthracene	53-70-3	4.0	J	3.6	9.0		5
10138	Fluoranthene	206-44-0	45		3.6	9.0		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.0		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.0		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.0		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.0		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.0		5
10138	Phenanthrene	85-01-8	5.7	J	3.6	9.0		5
10138	Pyrene	129-00-0	28		3.6	9.0		5
Reporting limits were raised due to interference from the sample matrix.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.3	U	0.3	1.3		28.87
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	22	U	22	71		20
10225	Aroclor 5442	12642-23-8	22	U	22	71		20
10225	Aroclor 5460	11126-42-4	130		22	71		20
10225	PCB-1016	12674-11-2	7.1	U	7.1	37		20
10225	PCB-1221	11104-28-2	7.1	U	7.1	37		20
10225	PCB-1232	11141-16-5	7.1	U	7.1	37		20
10225	PCB-1242	53469-21-9	7.1	U	7.1	37		20
10225	PCB-1248	12672-29-6	7.1	U	7.1	37		20
10225	PCB-1254	11097-69-1	83		7.1	37		20
10225	PCB-1260	11096-82-5	8.4	U	8.4	37		20
10225	PCB-1262	37324-23-5	7.1	U	7.1	37		20
10225	PCB-1268	11100-14-4	7.1	U	7.1	37		20
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1

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Sample Description: SL-088-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA6-SB-4.0-5.0

LLI Sample # SW 6345453
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:45

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0017 SDG#: DE200-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	22	U	22	65		50
10199	EFH (C15-C20)	n.a.	22	U	22	65		50
10199	EFH (C21-C30)	n.a.	160		22	65		50
10199	EFH (C30 - C40)	n.a.	700		22	65		50
10199	EFH (C8-C11)	n.a.	22	U	22	65		50
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,000		6.56	21.7		1
07914	Boron	7440-42-8	0.383	U	0.383	5.32		1
01650	Calcium	7440-70-2	7,510		2.66	21.3		1
01654	Iron	7439-89-6	43,900		13.9	106		5
01656	Lithium	7439-93-2	20.1		0.66	2.1		1
01657	Magnesium	7439-95-4	5,030		0.468	10.6		1
06958	Manganese	7439-96-5	298		0.0383	0.532		1
10145	Phosphorus	7723-14-0	414		0.372	10.6		1
01662	Potassium	7440-09-7	2,130		12.0	53.2		1
01667	Sodium	7440-23-5	118		6.33	106		1
07968	Strontium	7440-24-6	25.8		0.0266	0.532		1
06969	Tin	7440-31-5	2.46	J	0.340	10.6		1
06970	Titanium	7440-32-6	1,050		0.0770	1.08		1
10146	Zirconium	7440-67-7	1.65	J	0.489	5.32		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.460		0.0787	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	11.2		0.0851	0.425		2
06126	Barium	7440-39-3	86.2		0.113	0.425		2
06127	Beryllium	7440-41-7	0.553		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.236		0.0468	0.106		2
06131	Chromium	7440-47-3	16.9		0.128	0.425		2
06132	Cobalt	7440-48-4	19.0		0.0213	0.106		2
06133	Copper	7440-50-8	19.8		0.0851	0.425		2
06135	Lead	7439-92-1	10.3		0.0108	0.213		2
06138	Molybdenum	7439-98-7	1.04		0.0532	0.106		2
06139	Nickel	7440-02-0	12.4		0.106	0.425		2
06141	Selenium	7782-49-2	0.116	J	0.0617	0.425		2
06142	Silver	7440-22-4	0.0357	J	0.0151	0.106		2
06145	Thallium	7440-28-0	0.205		0.0319	0.106		2
06148	Vanadium	7440-62-2	39.0		0.0234	0.106		2
06149	Zinc	7440-66-6	72.9		0.595	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	1.75		0.0374	0.531		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-088-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA6-SB-4.0-5.0

LLI Sample # SW 6345453
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:45

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0017 SDG#: DE200-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	3.3		0.21	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.17		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.8		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-088-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B112011AA	07/20/2011 20:32	Sara E Johnson	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111961AA	07/15/2011 17:48	Jason M Long	23.76
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201119624918	07/15/2011 15:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201119624918	07/15/2011 15:34	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201119624918	07/15/2011 15:34	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201119624918	07/15/2011 15:27	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11202SLA026	08/02/2011 13:12	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11202SLC026	07/29/2011 08:27	Brian K Graham	5

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Sample Description: SL-088-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA6-SB-4.0-5.0

LLI Sample # SW 6345453
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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:45

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E0017 SDG#: DE200-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11202SLC026	07/23/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11202SLA026	07/22/2011 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11199A34A	07/19/2011 16:25	Marie D John	28.87
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119624918	07/15/2011 15:27	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060004A	07/27/2011 01:21	Sarah M Snyder	20
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060004A	07/25/2011 14:30	Wanda F Oswald	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111990026A	07/21/2011 04:42	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111990002A	07/19/2011 13:20	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112030005A	07/26/2011 17:01	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112040003A	07/26/2011 12:22	Heather E Williams	50
11238	EFH Extraction - Soils	SW-846 3550B	1	112040003A	07/25/2011 02:45	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	112030005A	07/25/2011 07:30	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111990026A	07/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111990002A	07/18/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708001	07/27/2011 15:54	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111995708003	07/25/2011 21:18	John P Hook	1
01650	Calcium	SW-846 6010B	1	111995708003	07/25/2011 21:18	John P Hook	1
01654	Iron	SW-846 6010B	1	111995708003	07/25/2011 21:22	John P Hook	5
01656	Lithium	SW-846 6010B	1	111995708003	07/25/2011 21:18	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111995708003	07/25/2011 21:18	John P Hook	1
06958	Manganese	SW-846 6010B	1	111995708003	07/25/2011 21:18	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111995708003	07/25/2011 21:18	John P Hook	1
01662	Potassium	SW-846 6010B	1	111995708003	07/25/2011 21:18	John P Hook	1
01667	Sodium	SW-846 6010B	1	111995708003	07/25/2011 21:18	John P Hook	1
07968	Strontium	SW-846 6010B	1	111995708003	07/25/2011 21:18	John P Hook	1
06969	Tin	SW-846 6010B	1	111995708003	07/25/2011 21:18	John P Hook	1
06970	Titanium	SW-846 6010B	1	112075708001	07/27/2011 15:54	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111995708003	07/25/2011 21:18	John P Hook	1
06124	Antimony	SW-846 6020	1	111991026002A	07/25/2011 08:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111991026002A	07/25/2011 08:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111991026002D	07/25/2011 08:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111991026002A	07/25/2011 08:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111991026002A	07/25/2011 08:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111991026002A	07/25/2011 08:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111991026002A	07/25/2011 08:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111991026002A	07/25/2011 08:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111991026002A	07/25/2011 08:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111991026002C	07/25/2011 08:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111991026002A	07/25/2011 08:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111991026002B	07/25/2011 08:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111991026002A	07/25/2011 08:56	Choon Y Tian	2

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Sample Description: SL-088-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA6-SB-4.0-5.0

LLI Sample # SW 6345453
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E0017 SDG#: DE200-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	111991026002A	07/25/2011 08:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111991026002A	07/25/2011 08:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111991026002A	07/25/2011 08:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111995711003	07/19/2011 08:39	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708003	07/18/2011 22:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112075708001	07/26/2011 22:49	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026002	07/18/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711003	07/19/2011 02:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621202B	07/28/2011 20:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206206201B	07/27/2011 11:59	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11208243202A	07/28/2011 18:00	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621202B	07/26/2011 08:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206206201B	07/25/2011 15:20	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039404B	07/25/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243202A	07/27/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11199162401B	07/18/2011 20:06	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-088-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA6-SB-9.0-10.0

LLI Sample # SW 6345454
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:55

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0018 SDG#: DE200-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SL-088-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA6-SB-9.0-10.0

LLI Sample # SW 6345454
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:55

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0018 SDG#: DE200-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19		1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		26.21
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	21		1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1

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Sample Description: SL-088-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA6-SB-9.0-10.0

LLI Sample # SW 6345454
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:55

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0018 SDG#: DE200-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	2.1		0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	5.5		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900		6.29	20.8		1
07914	Boron	7440-42-8	0.746	J	0.364	5.05		1
01650	Calcium	7440-70-2	2,100		2.53	20.2		1
01654	Iron	7439-89-6	18,900		2.64	20.2		1
01656	Lithium	7439-93-2	23.3		0.63	2.0		1
01657	Magnesium	7439-95-4	4,120		0.444	10.1		1
06958	Manganese	7439-96-5	211		0.0364	0.505		1
10145	Phosphorus	7723-14-0	202		0.354	10.1		1
01662	Potassium	7440-09-7	2,000		11.4	50.5		1
01667	Sodium	7440-23-5	166		6.01	101		1
07968	Strontium	7440-24-6	17.5		0.0253	0.505		1
06969	Tin	7440-31-5	2.74	J	0.323	10.1		1
06970	Titanium	7440-32-6	984		0.0738	1.04		1

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Sample Description: SL-088-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA6-SB-9.0-10.0

LLI Sample # SW 6345454
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:55

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0018 SDG#: DE200-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	3.48	J	0.465	5.05		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.139	J	0.0755	0.204		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.51		0.0816	0.408		2
06126	Barium	7440-39-3	71.1		0.108	0.408		2
06127	Beryllium	7440-41-7	0.719		0.0163	0.102		2
06128	Cadmium	7440-43-9	0.0795	J	0.0449	0.102		2
06131	Chromium	7440-47-3	18.1		0.122	0.408		2
06132	Cobalt	7440-48-4	5.57		0.0204	0.102		2
06133	Copper	7440-50-8	8.06		0.0816	0.408		2
06135	Lead	7439-92-1	6.77		0.0104	0.204		2
06138	Molybdenum	7439-98-7	0.659		0.0510	0.102		2
06139	Nickel	7440-02-0	11.7		0.102	0.408		2
06141	Selenium	7782-49-2	0.0779	J	0.0591	0.408		2
06142	Silver	7440-22-4	0.0349	J	0.0145	0.102		2
06145	Thallium	7440-28-0	0.286		0.0306	0.102		2
06148	Vanadium	7440-62-2	36.5		0.0224	0.102		2
06149	Zinc	7440-66-6	57.0		0.571	3.06		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.52		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-088-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA6-SB-9.0-10.0

LLI Sample # SW 6345454
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:55

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0018 SDG#: DE200-18

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-088-SA6-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11202SLA026	08/02/2011 13:37	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11202SLC026	07/29/2011 08:59	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11202SLC026	07/23/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11202SLA026	07/22/2011 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11199A34A	07/19/2011 18:14	Marie D John	26.21
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119624918	07/15/2011 15:29	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060004A	07/27/2011 18:28	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060004A	07/25/2011 14:30	Wanda F Oswald	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111990026A	07/21/2011 04:57	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111990002A	07/19/2011 13:33	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112030005A	07/26/2011 02:57	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112080002A	07/28/2011 04:35	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	112080002A	07/27/2011 09:55	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112030005A	07/25/2011 07:30	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111990026A	07/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111990002A	07/18/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708001	07/27/2011 15:58	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111995708003	07/25/2011 21:26	John P Hook	1
01650	Calcium	SW-846 6010B	1	111995708003	07/25/2011 21:26	John P Hook	1
01654	Iron	SW-846 6010B	1	111995708003	07/25/2011 21:26	John P Hook	1
01656	Lithium	SW-846 6010B	1	111995708003	07/25/2011 21:26	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111995708003	07/25/2011 21:26	John P Hook	1
06958	Manganese	SW-846 6010B	1	111995708003	07/25/2011 21:26	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111995708003	07/25/2011 21:26	John P Hook	1
01662	Potassium	SW-846 6010B	1	111995708003	07/25/2011 21:26	John P Hook	1
01667	Sodium	SW-846 6010B	1	111995708003	07/25/2011 21:26	John P Hook	1
07968	Strontium	SW-846 6010B	1	111995708003	07/25/2011 21:26	John P Hook	1
06969	Tin	SW-846 6010B	1	111995708003	07/25/2011 21:26	John P Hook	1
06970	Titanium	SW-846 6010B	1	112075708001	07/27/2011 15:58	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111995708003	07/25/2011 21:26	John P Hook	1
06124	Antimony	SW-846 6020	1	111991026002A	07/25/2011 08:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111991026002A	07/25/2011 08:59	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-088-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA6-SB-9.0-10.0

LLI Sample # SW 6345454
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:55

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0018 SDG#: DE200-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111991026002D	07/25/2011 08:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111991026002A	07/25/2011 08:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111991026002A	07/25/2011 08:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111991026002A	07/25/2011 08:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111991026002A	07/25/2011 08:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111991026002A	07/25/2011 08:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111991026002A	07/25/2011 08:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111991026002C	07/25/2011 08:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111991026002A	07/25/2011 08:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111991026002B	07/25/2011 08:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111991026002A	07/25/2011 08:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111991026002A	07/25/2011 08:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111991026002A	07/25/2011 08:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111991026002A	07/25/2011 08:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111995711003	07/19/2011 08:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708003	07/18/2011 22:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112075708001	07/26/2011 22:49	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026002	07/18/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711003	07/19/2011 02:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621202B	07/28/2011 20:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206206201B	07/27/2011 12:22	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243202A	07/28/2011 18:07	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621202B	07/26/2011 08:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206206201B	07/25/2011 15:20	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039404B	07/25/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243202A	07/27/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11199162401B	07/18/2011 20:06	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP02-SA6-QC-071411 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA6-QC-071411

LLI Sample # SW 6345455
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:25

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0019 SDG#: DE200-19FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	23		6.9	8.2		0.96
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.96
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.96
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.96
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.96
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.96
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.2		0.96
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.96
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.96
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.96
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.96
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.96
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.96
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.96
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.96
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.96
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.96
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.96
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.96
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.96
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.96
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.96
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.96
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.96
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.96
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.96
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.96
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.96
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.96
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.96
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.96
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.96
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.96
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.96
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.96
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.96
06192	Methylene Chloride	75-09-2	7.5		0.25	4.1		0.96
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.96

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP02-SA6-QC-071411 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA6-QC-071411

LLI Sample # SW 6345455
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:25

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0019 SDG#: DE200-19FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.96
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.96
06192	Toluene	108-88-3	0.13	J	0.08	4.1		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.96
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.96
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.96
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.96
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.96
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.7	U	5.7	17		26.43
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1

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Sample Description: DUP02-SA6-QC-071411 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA6-QC-071411

LLI Sample # SW 6345455
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:25

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0019 SDG#: DE200-19FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.6	U	3.6	8.9		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.9		5
10138	Anthracene	120-12-7	3.4	J	1.8	8.9		5
10138	Benzo(a)anthracene	56-55-3	21		3.6	8.9		5
10138	Benzo(a)pyrene	50-32-8	20		3.6	8.9		5
10138	Benzo(b)fluoranthene	205-99-2	32		3.6	8.9		5
10138	Benzo(g,h,i)perylene	191-24-2	7.0	J	3.6	8.9		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP02-SA6-QC-071411 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA6-QC-071411

LLI Sample # SW 6345455
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:25

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0019 SDG#: DE200-19FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(k)fluoranthene	207-08-9	12		3.6	8.9		5
10138	Chrysene	218-01-9	19		1.8	8.9		5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	8.9		5
10138	Fluoranthene	206-44-0	33		3.6	8.9		5
10138	Fluorene	86-73-7	3.6	U	3.6	8.9		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.3	J	3.6	8.9		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	8.9		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	8.9		5
10138	Naphthalene	91-20-3	3.8	J	3.6	8.9		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	8.9		5
10138	Phenanthrene	85-01-8	8.5	J	3.6	8.9		5
10138	Pyrene	129-00-0	22		3.6	8.9		5
Reporting limits were raised due to interference from the sample matrix.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.48
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	54	U	54	180		50
10225	Aroclor 5442	12642-23-8	54	U	54	180		50
10225	Aroclor 5460	11126-42-4	210		54	180		50
10225	PCB-1016	12674-11-2	18	U	18	91		50
10225	PCB-1221	11104-28-2	18	U	18	91		50
10225	PCB-1232	11141-16-5	18	U	18	91		50
10225	PCB-1242	53469-21-9	18	U	18	91		50
10225	PCB-1248	12672-29-6	18	U	18	91		50
10225	PCB-1254	11097-69-1	250		18	91		50
10225	PCB-1260	11096-82-5	21	U	21	91		50
10225	PCB-1262	37324-23-5	18	U	18	91		50
10225	PCB-1268	11100-14-4	18	U	18	91		50
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP02-SA6-QC-071411 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA6-QC-071411

LLI Sample # SW 6345455
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:25

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0019 SDG#: DE200-19FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.4		5
10199	EFH (C15-C20)	n.a.	3.1	J	2.1	6.4		5
10199	EFH (C21-C30)	n.a.	53		2.1	6.4		5
10199	EFH (C30 - C40)	n.a.	160		2.1	6.4		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.4		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,700		6.24	20.6		1
07914	Boron	7440-42-8	1.29	J	0.375	5.21		1
01650	Calcium	7440-70-2	8,060		2.60	20.8		1
01654	Iron	7439-89-6	32,900		13.6	104		5
01656	Lithium	7439-93-2	17.6		0.65	2.1		1
01657	Magnesium	7439-95-4	5,050		0.458	10.4		1
06958	Manganese	7439-96-5	266		0.0375	0.521		1
10145	Phosphorus	7723-14-0	422		0.365	10.4		1
01662	Potassium	7440-09-7	2,610		11.8	52.1		1
01667	Sodium	7440-23-5	316		6.20	104		1
07968	Strontium	7440-24-6	32.6		0.0260	0.521		1
06969	Tin	7440-31-5	2.73	J	0.333	10.4		1
06970	Titanium	7440-32-6	757		0.0733	1.03		1
10146	Zirconium	7440-67-7	2.97	J	0.479	5.21		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.246		0.0786	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.85		0.0850	0.425		2
06126	Barium	7440-39-3	79.8		0.113	0.425		2
06127	Beryllium	7440-41-7	0.580		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.209		0.0467	0.106		2
06131	Chromium	7440-47-3	14.2		0.127	0.425		2
06132	Cobalt	7440-48-4	10.4		0.0212	0.106		2
06133	Copper	7440-50-8	14.3		0.0850	0.425		2
06135	Lead	7439-92-1	9.86		0.0108	0.212		2
06138	Molybdenum	7439-98-7	0.733		0.0531	0.106		2
06139	Nickel	7440-02-0	11.2		0.106	0.425		2
06141	Selenium	7782-49-2	0.129	J	0.0616	0.425		2
06142	Silver	7440-22-4	0.0414	J	0.0151	0.106		2
06145	Thallium	7440-28-0	0.192		0.0319	0.106		2
06148	Vanadium	7440-62-2	45.1		0.0234	0.106		2
06149	Zinc	7440-66-6	61.3		0.595	3.19		2

*=This limit was used in the evaluation of the final result
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Sample Description: DUP02-SA6-QC-071411 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA6-QC-071411

LLI Sample # SW 6345455
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:25

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0019 SDG#: DE200-19FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	2.45		0.0365	0.519		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.21	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.77		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.8		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B112011AA	07/20/2011 20:54	Sara E Johnson	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111961AA	07/15/2011 18:08	Jason M Long	26.43
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201119624918	07/15/2011 15:31	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201119624918	07/15/2011 15:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201119624918	07/15/2011 15:35	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201119624918	07/15/2011 15:31	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11202SLA026	08/02/2011 14:02	Matthew S Woods	1

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Sample Description: DUP02-SA6-QC-071411 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA6-QC-071411

LLI Sample # SW 6345455
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:25

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0019 SDG#: DE200-19FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11202SLC026	07/29/2011 09:30	Brian K Graham	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11202SLC026	07/23/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11202SLA026	07/22/2011 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11199A34A	07/19/2011 15:12	Marie D John	22.48
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201119624918	07/15/2011 15:31	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060004A	07/27/2011 18:46	Sarah M Snyder	50
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060004A	07/25/2011 14:30	Wanda F Oswald	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111990026A	07/21/2011 05:12	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111990002A	07/19/2011 13:45	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112030005A	07/26/2011 18:30	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112040003A	07/26/2011 10:41	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112040003A	07/25/2011 02:45	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	112030005A	07/25/2011 07:30	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111990026A	07/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111990002A	07/18/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708001	07/27/2011 16:02	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111995708003	07/25/2011 21:38	John P Hook	1
01650	Calcium	SW-846 6010B	1	111995708003	07/25/2011 21:38	John P Hook	1
01654	Iron	SW-846 6010B	1	111995708003	07/25/2011 21:43	John P Hook	5
01656	Lithium	SW-846 6010B	1	111995708003	07/25/2011 21:38	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111995708003	07/25/2011 21:38	John P Hook	1
06958	Manganese	SW-846 6010B	1	111995708003	07/25/2011 21:38	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111995708003	07/25/2011 21:38	John P Hook	1
01662	Potassium	SW-846 6010B	1	111995708003	07/25/2011 21:38	John P Hook	1
01667	Sodium	SW-846 6010B	1	111995708003	07/25/2011 21:38	John P Hook	1
07968	Strontium	SW-846 6010B	1	111995708003	07/25/2011 21:38	John P Hook	1
06969	Tin	SW-846 6010B	1	111995708003	07/25/2011 21:38	John P Hook	1
06970	Titanium	SW-846 6010B	1	112075708001	07/27/2011 16:02	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111995708003	07/25/2011 21:38	John P Hook	1
06124	Antimony	SW-846 6020	1	111991026002A	07/25/2011 09:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111991026002A	07/25/2011 09:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111991026002D	07/25/2011 09:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111991026002A	07/25/2011 09:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111991026002A	07/25/2011 09:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111991026002A	07/25/2011 09:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111991026002A	07/25/2011 09:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111991026002A	07/25/2011 09:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111991026002A	07/25/2011 09:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111991026002C	07/25/2011 09:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111991026002A	07/25/2011 09:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111991026002B	07/25/2011 09:02	Choon Y Tian	2

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Sample Description: DUP02-SA6-QC-071411 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA6-QC-071411

LLI Sample # SW 6345455
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:25

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0019 SDG#: DE200-19FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	111991026002A	07/25/2011 09:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111991026002A	07/25/2011 09:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111991026002A	07/25/2011 09:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111991026002A	07/25/2011 09:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111995711003	07/19/2011 08:40	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111995708003	07/18/2011 22:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112075708001	07/26/2011 22:49	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111991026002	07/18/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111995711003	07/19/2011 02:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11207621202B	07/28/2011 21:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206206201B	07/27/2011 12:45	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243202A	07/28/2011 18:20	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11207621202B	07/26/2011 08:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206206201B	07/25/2011 15:20	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11206039404B	07/25/2011 22:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243202A	07/27/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11199162401B	07/18/2011 20:06	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-071411 Water
SSFL Area IV Collocated Soil Sampling
TB-071411

LLI Sample # WW 6345456
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:00

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0020 SDG#: DE200-20TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-071411 Water
SSFL Area IV Collocated Soil Sampling
TB-071411

LLI Sample # WW 6345456
LLI Group # 1256494
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:00

Submitted: 07/15/2011 09:10
Reported: 08/24/2011 14:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0020 SDG#: DE200-20TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y112011AA	07/20/2011	12:32	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112011AA	07/20/2011	11:59	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E112011AA	07/20/2011	11:59	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y112011AA	07/20/2011	12:32	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11201A20A	07/21/2011	13:10	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	11201A20A	07/21/2011	13:10	Catherine J Schwarz	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256494
Reported: 08/24/11 at 02:01 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B112011AA	Sample number(s): 6345446,6345448-6345450,6345453,6345455									
Acetone	8.7		6.7	8.0	ug/kg	169		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	109		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	97		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	113		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	109		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	109		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	71		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	125		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	100		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	96		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	93		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	120		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	103		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	68		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	93		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	115		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	73		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	95		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	101		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	82	94	22-131	13	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	121*		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	107		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	110		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	109		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	102		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	97		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	66		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	107		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	121		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	118		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	107		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	111		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	104		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	118		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	107		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	101		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	98		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	101		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	122		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	99	119	78-120	18	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	95		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	123		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	103		76-120		

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256494
Reported: 08/24/11 at 02:01 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	96		75-120		
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	115		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	120		61-134		
Methylene Chloride	0.96	J	0.24	4.0	ug/kg	123		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	99		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	105		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	107		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	103		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	105		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	103		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	101		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	90		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	116		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	107		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	107		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	104		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	111		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	97		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	99		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	75		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	105		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	99		80-120		
Batch number: E111961AA	Sample number(s): 6345446,6345448-6345450,6345453,6345455									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	92	104	70-130	12	30
Batch number: E112011AA	Sample number(s): 6345456									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	110	111	80-123	0	30
Batch number: Y112011AA	Sample number(s): 6345456									
Acetone	6	U	6.	20	ug/l	79	78	49-234	1	30
Benzene	0.5	U	0.5	5	ug/l	99	102	79-120	3	30
Bromobenzene	1	U	1.	5	ug/l	114	119	80-120	4	30
Bromochloromethane	1	U	1.	5	ug/l	116	119	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	103	108	80-120	4	30
Bromoform	1	U	1.	5	ug/l	109	113	61-120	3	30
Bromomethane	1	U	1.	5	ug/l	74	78	44-120	6	30
2-Butanone	3	U	3.	10	ug/l	84	84	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	91	95	74-120	4	30
sec-Butylbenzene	1	U	1.	5	ug/l	94	100	78-120	5	30
tert-Butylbenzene	1	U	1.	5	ug/l	102	106	80-120	4	30
Carbon Tetrachloride	1	U	1.	5	ug/l	107	109	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	106	109	80-120	3	30
Chloroethane	1	U	1.	5	ug/l	76	80	49-129	6	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	102	108	56-129	5	30
Chloroform	0.8	U	0.8	5	ug/l	105	108	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	62	66	60-129	7	30
2-Chlorotoluene	1	U	1.	5	ug/l	108	110	80-120	3	30
4-Chlorotoluene	1	U	1.	5	ug/l	108	112	80-120	4	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	80	77	38-136	4	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	90	94	56-126	5	30
Dibromochloromethane	1	U	1.	5	ug/l	105	110	80-120	5	30
1,2-Dibromoethane	1	U	1.	5	ug/l	99	105	80-120	6	30
Dibromomethane	1	U	1.	5	ug/l	100	107	80-120	6	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	104	108	80-120	4	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	112	117	80-120	5	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	110	114	80-120	4	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	47	49	47-120	5	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256494
Reported: 08/24/11 at 02:01 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1-Dichloroethane	1	U	1.	5	ug/l	102	106	79-120	3	30
1,2-Dichloroethane	1	U	1.	5	ug/l	112	115	70-130	3	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	88	91	74-123	4	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	104	107	80-120	3	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	102	107	80-120	4	30
1,2-Dichloropropane	1	U	1.	5	ug/l	95	99	78-120	5	30
1,3-Dichloropropane	1	U	1.	5	ug/l	95	99	80-120	5	30
2,2-Dichloropropane	1	U	1.	5	ug/l	102	106	77-124	4	30
1,1-Dichloropropene	1	U	1.	5	ug/l	103	109	80-120	6	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	103	108	80-120	5	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	93	97	79-120	4	30
Ethylbenzene	0.8	U	0.8	5	ug/l	95	99	79-120	4	30
Freon 113	2	U	2.	10	ug/l	77	81	69-128	4	30
Freon 133a	2	U	2.	5	ug/l	84	81	77-120	3	30
Hexachlorobutadiene	2	U	2.	5	ug/l	103	109	58-120	6	30
2-Hexanone	3	U	3.	10	ug/l	75	79	65-136	5	30
Isopropylbenzene	1	U	1.	5	ug/l	101	106	77-120	4	30
p-Isopropyltoluene	1	U	1.	5	ug/l	102	106	80-120	4	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	96	102	76-120	6	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	80	87	70-121	9	30
Methylene Chloride	2	U	2.	5	ug/l	94	100	80-120	6	30
n-Propylbenzene	1	U	1.	5	ug/l	90	94	80-120	5	30
Styrene	1	U	1.	5	ug/l	96	100	80-120	5	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	108	114	80-120	5	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	85	89	71-120	5	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	116	120	80-121	3	30
Toluene	0.7	U	0.7	5	ug/l	93	98	79-120	5	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	112	118	65-120	5	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	106	111	67-120	4	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	93	96	75-127	3	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	94	99	80-120	5	30
Trichloroethene	1	U	1.	5	ug/l	104	108	80-120	4	30
Trichlorofluoromethane	2	U	2.	5	ug/l	71	73	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	97	102	80-120	5	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	100	105	74-120	5	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	100	103	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	67	71	65-125	6	30
m+p-Xylene	0.8	U	0.8	5	ug/l	99	103	80-120	4	30
o-Xylene	0.8	U	0.8	5	ug/l	96	100	80-120	4	30

Batch number: 11202SLA026 Sample number(s): 6345434-6345450,6345452-6345455

Acenaphthene	17	U	17.	170	ug/kg	75*	76-111
Acenaphthylene	17	U	17.	170	ug/kg	84	75-122
Aniline	170 U		170.	500	ug/kg	68	20-115
Anthracene	17	U	17.	170	ug/kg	79	76-112
Benzidine	1,200 U		1,200.	3,300	ug/kg	58	15-121
Benzo(a)anthracene	17	U	17.	170	ug/kg	73	73-112
Benzo(a)pyrene	17	U	17.	170	ug/kg	82	65-124
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	81	61-127
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	73	60-125
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	77	67-125
Benzoic acid	170 U		170.	500	ug/kg	65	62-113
Benzyl alcohol	170 U		170.	500	ug/kg	78	68-111
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	75	73-114

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256494
Reported: 08/24/11 at 02:01 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Butylbenzylphthalate	17	U	17.	170	ug/kg	78		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	76*		79-112		
Carbazole	17	U	17.	170	ug/kg	75*		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	81		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	64		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	76		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	74		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	73		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	62		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	80		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	76		74-115		
Chrysene	17	U	17.	170	ug/kg	70*		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	77		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	75		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	73*		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	73		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	71*		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	59		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	79		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	78		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	79		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	79*		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	76*		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	47		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	29		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	77		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	80		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	78		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	75		75-117		
Fluoranthene	17	U	17.	170	ug/kg	77*		78-116		
Fluorene	17	U	17.	170	ug/kg	78		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	72*		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	75		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	83		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	74		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	76		64-119		
Isophorone	17	U	17.	170	ug/kg	78		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	74		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	76		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	81		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	79		66-117		
Naphthalene	17	U	17.	170	ug/kg	76		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	82		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	76		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	58		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	75		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	80		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	69		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	75		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	66		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	78		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	92		62-137		
Pentachlorophenol	170		170.	500	ug/kg	68		51-117		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256494
Reported: 08/24/11 at 02:01 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	U									
Phenanthrene	17	U	17.	170	ug/kg	74*		77-113		
Phenol	17	U	17.	170	ug/kg	73		58-112		
Pyrene	17	U	17.	170	ug/kg	73*		75-115		
Tetralin	170		170.	170	ug/kg	0*		70-130		
	U									
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	72*		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	79		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	81		78-111		
Batch number: 11202SLC026	Sample number(s): 6345434-6345450,6345452-6345455									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	89		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	81		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	95		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	99		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	98		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	109		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	101		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	97		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	108		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	106		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	99		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	100		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	99		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	96		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	115		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	101		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	91		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	101		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	77		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	75		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	75		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	70		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	109		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	91		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	100		56-121		
Batch number: 11207SLC026	Sample number(s): 6345435-6345436,6345439-6345445									
N-Nitrosodimethylamine	168		16.7	33.3	ng/kg	106		70-130		
Batch number: 11217SLD026	Sample number(s): 6345434									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	93		70-130		
Batch number: 11199A34A	Sample number(s): 6345446-6345450,6345452-6345455									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	77		67-119		
Batch number: 11201A20A	Sample number(s): 6345456									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	91	86	75-135	5	30
Batch number: 112070007A	Sample number(s): 6345434-6345436,6345439-6345445									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	111		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	111		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	98	100	54-134	3	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	97	100	54-134	3	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	115		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	106		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
HMX	100		100.	300	ug/kg	96		74-130		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256494
Reported: 08/24/11 at 02:01 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Nitrobenzene	40 U	U	40.	120	ug/kg	110		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	85		80-120		
2-Nitrotoluene	80 U	U	80.	120	ug/kg	108		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	116		73-127		
4-Nitrotoluene	80 U	U	80.	120	ug/kg	106		80-120		
PETN	800 U		800.	2,400	ug/kg	99		80-120		
RDX	50 U	U	50.	120	ug/kg	97		75-131		
Tetryl	61 U	U	61.	120	ug/kg	95		70-168		
1,3,5-Trinitrobenzene	40 U	U	40.	120	ug/kg	108		77-137		
2,4,6-Trinitrotoluene	40 U	U	40.	120	ug/kg	114		80-120		
Batch number: 111970008A	Sample number(s): 6345434-6345436,6345439-6345445									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	97		80-126		
Batch number: 112030003A	Sample number(s): 6345434-6345445									
2,4-D	1.2 U	U	1.2	3.6	ug/kg	90		73-146		
Dalapon	4.4 U	U	4.4	9.0	ug/kg	55		11-116		
2,4-DB	0.62 U	U	0.62	1.7	ug/kg	97		62-131		
Dicamba	0.40 U	U	0.40	1.2	ug/kg	104		54-121		
Dinoseb	0.80 U	U	0.80	2.4	ug/kg	10		10-36		
2,4-DP (Dichlorprop)	0.80 U	U	0.80	1.7	ug/kg	103		62-170		
MCPA	190 J		76.	250	ug/kg	95		60-130		
MCPP (Mecoprop)	660		75.	250	ug/kg	128		54-137		
2,4,5-T	0.082 U	U	0.082	0.17	ug/kg	88		73-143		
2,4,5-TP	0.075 U	U	0.075	0.17	ug/kg	89		68-114		
Batch number: 112020040A	Sample number(s): 6345434-6345445									
Aldrin	0.066 U	U	0.066	0.17	ug/kg	82		44-135		
Alpha BHC	0.034 U	U	0.034	0.17	ug/kg	71		38-130		
Beta BHC	0.060 U	U	0.060	0.17	ug/kg	88		56-134		
Gamma BHC - Lindane	0.034 U	U	0.034	0.17	ug/kg	74		46-127		
Chlordane	0.80 U	U	0.80	3.4	ug/kg					
p,p-DDD	0.066 U	U	0.066	0.34	ug/kg	87		60-137		
p,p-DDE	0.066 U	U	0.066	0.34	ug/kg	97		59-141		
p,p-DDT	0.066 U	U	0.066	0.34	ug/kg	93		54-130		
Delta BHC	0.036 U	U	0.036	0.17	ug/kg	103		55-144		
Dieldrin	0.066 U	U	0.066	0.34	ug/kg	87		65-129		
Endosulfan I	0.044 U	U	0.044	0.17	ug/kg	79		45-123		
Endosulfan II	0.066 U	U	0.066	0.34	ug/kg	91		63-127		
Endosulfan Sulfate	0.066 U	U	0.066	0.34	ug/kg	105		72-138		
Endrin	0.066 U	U	0.066	0.34	ug/kg	85		62-129		
Endrin Aldehyde	0.066 U	U	0.066	0.34	ug/kg	82		55-132		
Endrin Ketone	0.066 U	U	0.066	0.34	ug/kg	103		69-139		
Heptachlor	0.060 U	U	0.060	0.17	ug/kg	76		43-124		
Heptachlor Epoxide	0.034 U	U	0.034	0.17	ug/kg	103		65-131		
Methoxychlor	0.34 U	U	0.34	1.7	ug/kg	100		59-125		
Mirex	0.066 U	U	0.066	0.34	ug/kg					
Toxaphene	2.2 U	U	2.2	6.6	ug/kg					
Batch number: 112060004A	Sample number(s): 6345434-6345450,6345452-6345455									
Aroclor 5432	1.0 U	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0 U	U	1.0	3.3	ug/kg	84	81	36-106	3	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256494
Reported: 08/24/11 at 02:01 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	109		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111990002A	Sample number(s): 6345434-6345450,6345452-6345455									
Diethylene glycol	5.0	U	5.0	10	mg/kg	145*		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	143*		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	133*		75-125		
Batch number: 111990026A	Sample number(s): 6345434-6345450,6345452-6345455									
Ethanol	100 U		100.	500	ug/kg	93		71-129		
Isopropanol	100 U		100.	500	ug/kg	97		75-125		
Methanol	100 U		100.	500	ug/kg	90		68-129		
Batch number: 112030005A	Sample number(s): 6345434-6345450,6345452-6345455									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	90		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	105		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	99		75-125		
Batch number: 112040003A	Sample number(s): 6345434,6345436-6345450,6345452-6345453,6345455									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	104		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	109		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	93		69-132		
EFH (C30 - C40)	1.1	J	0.40	1.2	mg/kg	93		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	76		54-107		
Batch number: 112080002A	Sample number(s): 6345435,6345454									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	99		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	105		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	109		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	105		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	82		54-107		
Batch number: 111991026002A	Sample number(s): 6345434-6345455									
Antimony	0.0740	U	0.0740	0.200	mg/kg	116		40-224		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	108		78-122		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	111		80-120		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	111		81-119		
Chromium	0.120	U	0.120	0.400	mg/kg	114		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	106		80-119		
Copper	0.0800	U	0.0800	0.400	mg/kg	110		78-122		
Lead	0.0102	U	0.0102	0.200	mg/kg	106		77-123		
Nickel	0.100	U	0.100	0.400	mg/kg	113		80-120		
Silver	0.0142	U	0.0142	0.100	mg/kg	112		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	107		75-124		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	116		76-124		
Zinc	0.560	U	0.560	3.00	mg/kg	112		79-121		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256494
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111991026002B	Sample number(s): 6345434-6345455									
Selenium	0.0580	U	0.0580	0.400	mg/kg	108		77-123		
Batch number: 111991026002C	Sample number(s): 6345434-6345455									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	115		76-123		
Batch number: 111991026002D	Sample number(s): 6345434-6345455									
Barium	0.106	U	0.106	0.400	mg/kg	112		80-120		
Batch number: 111995708003	Sample number(s): 6345434-6345455									
Boron	0.456	J	0.360	5.00	mg/kg	110		66-134		
Calcium	9.42	J	2.50	20.0	mg/kg	111		79-121		
Iron	2.61	U	2.61	20.0	mg/kg	144		51-149		
Lithium	0.62	U	0.62	2.0	mg/kg	103		80-120		
Magnesium	0.538	J	0.440	10.0	mg/kg	134		64-136		
Manganese	0.0360	U	0.0360	0.500	mg/kg	102		78-122		
Phosphorus	1.71	J	0.350	10.0	mg/kg	106		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	129		69-131		
Sodium	5.95	U	5.95	100	mg/kg	120		71-129		
Strontium	0.0520	J	0.0250	0.500	mg/kg	114		81-119		
Tin	1.58	J	0.320	10.0	mg/kg	104		74-126		
Zirconium	0.460	U	0.460	5.00	mg/kg	104		80-120		
Batch number: 111995711003	Sample number(s): 6345434-6345455									
Mercury	0.0069	U	0.0069	0.0986	mg/kg	109		72-128		
Batch number: 112075708001	Sample number(s): 6345434-6345455									
Aluminum	6.05	U	6.05	20.0	mg/kg	116		42-158		
Titanium	0.0710	U	0.0710	1.00	mg/kg	145		40-186		
Batch number: 11206206201A	Sample number(s): 6345434-6345443									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	105		85-115		
Batch number: 11206206201B	Sample number(s): 6345444-6345449,6345451-6345455									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	105		85-115		
Batch number: 11207621202A	Sample number(s): 6345434-6345443									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	107		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	101		90-110		
Batch number: 11207621202B	Sample number(s): 6345444-6345449,6345451-6345455									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	107		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	101		90-110		
Batch number: 11208243202A	Sample number(s): 6345434-6345449,6345451-6345455									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	89		80-120		
Batch number: 11209102201A	Sample number(s): 6345434-6345436,6345439-6345445									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	97		80-120		
Batch number: 11206039404A	Sample number(s): 6345434-6345442									
18a pH by 9045C						100		95-105		
Batch number: 11206039404B	Sample number(s): 6345443-6345448,6345451-6345455									
18a pH by 9045C						100		95-105		
Batch number: 11199162401B	Sample number(s): 6345437-6345438,6345446-6345455									
28a Moisture Content by 160.3						100		80-120		

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Quality Control Summary

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Reported: 08/24/11 at 02:01 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Batch number: 11214162401A	Sample number(s): 6345434-6345436,6345439-6345445								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B112011AA	Sample number(s): 6345446,6345448-6345450,6345453,6345455 UNSPK: 6345448								
Acetone	179	157	15-210	15	30				
Benzene	125	116	55-143	11	30				
Bromobenzene	106	102	43-139	7	30				
Bromochloromethane	128	117	60-137	13	30				
Bromodichloromethane	123	115	53-136	11	30				
Bromoform	110	106	38-124	7	30				
Bromomethane	72	65	42-168	14	30				
2-Butanone	126	116	37-163	11	30				
n-Butylbenzene	103	100	30-146	6	30				
sec-Butylbenzene	105	102	33-157	6	30				
tert-Butylbenzene	103	98	41-152	8	30				
Carbon Tetrachloride	138	126	45-153	13	30				
Chlorobenzene	114	109	49-135	8	30				
Chloroethane	65	57	39-152	17	30				
2-Chloroethyl Vinyl Ether	97	88	32-139	14	30				
Chloroform	131	121	61-142	12	30				
Chloromethane	83	73	51-163	16	30				
2-Chlorotoluene	106	101	42-146	9	30				
4-Chlorotoluene	109	104	39-145	9	30				
1,2-Dibromo-3-chloropropane	115	109	30-139	8	30				
Dibromochloromethane	115	109	51-128	9	30				
1,2-Dibromoethane	116	109	54-129	10	30				
Dibromomethane	119	111	57-130	11	30				
1,2-Dichlorobenzene	105	101	36-133	7	30				
1,3-Dichlorobenzene	103	98	34-134	8	30				
1,4-Dichlorobenzene	104	100	35-136	8	30				
Dichlorodifluoromethane	75	65	26-151	17	30				
1,1-Dichloroethane	125	115	63-142	12	30				
1,2-Dichloroethane	135*	127	68-131	10	30				
1,1-Dichloroethene	139	127	61-149	13	30				
cis-1,2-Dichloroethene	122	113	60-136	11	30				
trans-1,2-Dichloroethene	128	117	59-142	12	30				
1,2-Dichloropropane	114	107	62-135	10	30				
1,3-Dichloropropane	114	107	58-129	10	30				
2,2-Dichloropropane	135	126	53-147	10	30				
1,1-Dichloropropene	125	115	54-145	12	30				
cis-1,3-Dichloropropene	110	104	51-131	10	30				
trans-1,3-Dichloropropene	106	100	49-129	10	30				
Ethylbenzene	115	107	44-141	11	30				
Freon 113	140	131	56-156	11	30				

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Quality Control Summary

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Reported: 08/24/11 at 02:01 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Hexachlorobutadiene	83	84	10-155	3	30				
2-Hexanone	117	112	32-160	8	30				
Isopropylbenzene	114	108	38-144	9	30				
p-Isopropyltoluene	102	99	29-152	7	30				
Methyl Tertiary Butyl Ether	122	115	55-129	10	30				
4-Methyl-2-pentanone	117	108	46-139	11	30				
Methylene Chloride	-119*	-156*	61-141	14	30				
n-Propylbenzene	110	106	39-157	7	30				
Styrene	115	109	35-134	10	30				
1,1,1,2-Tetrachloroethane	120	112	52-130	10	30				
1,1,2,2-Tetrachloroethane	106	100	40-152	9	30				
Tetrachloroethene	125	119	42-149	9	30				
Toluene	117	110	50-146	10	30				
1,2,3-Trichlorobenzene	87	81	10-140	10	30				
1,2,4-Trichlorobenzene	80	75	10-136	11	30				
1,1,1-Trichloroethane	134	124	64-142	11	30				
1,1,2-Trichloroethane	118	110	54-139	11	30				
Trichloroethene	124	115	53-144	11	30				
Trichlorofluoromethane	117	103	47-163	16	30				
1,2,3-Trichloropropane	113	106	45-154	10	30				
1,2,4-Trimethylbenzene	106	102	37-149	7	30				
1,3,5-Trimethylbenzene	111	106	38-150	8	30				
Vinyl Chloride	86	78	50-154	14	30				
m+p-Xylene	118	110	44-137	10	30				
o-Xylene	110	105	42-137	9	30				
Batch number: E111961AA	Sample number(s): 6345446,6345448-6345450,6345453,6345455 UNSPK: 6345448								
1,4-Dioxane	80	86	70-130	14	30				
Batch number: 11202SLA026	Sample number(s): 6345434-6345450,6345452-6345455 UNSPK: 6345448								
Acenaphthene	98	100	75-115	2	30				
Acenaphthylene	104	107	81-110	3	30				
Aniline	73	75	18-116	4	30				
Anthracene	102	103	75-115	1	30				
Benzidine	36	56	35-141	43*	30				
Benzo(a)anthracene	104	106	65-122	2	30				
Benzo(a)pyrene	103	109	57-126	6	30				
Benzo(b)fluoranthene	95	107	59-125	12	30				
Benzo(g,h,i)perylene	107	113	59-127	6	30				
Benzo(k)fluoranthene	96	103	56-132	7	30				
Benzoic acid	62	54	10-173	14	30				
Benzyl alcohol	94	91	67-115	4	30				
4-Bromophenyl-phenylether	103	99	67-129	4	30				
Butylbenzylphthalate	101	100	73-134	1	30				
Di-n-butylphthalate	98	99	67-123	1	30				
Carbazole	91	94	64-120	3	30				
4-Chloro-3-methylphenol	94	96	62-122	1	30				
4-Chloroaniline	42	58	13-107	32*	30				
bis(2-Chloroethoxy)methane	94	94	75-104	0	30				
bis(2-Chloroethyl)ether	92	90	60-116	3	30				
bis(2-Chloroisopropyl)ether	95	91	55-142	5	30				
2-Chloronaphthalene	80	79	50-141	2	30				
2-Chlorophenol	96	94	73-121	2	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Chlorophenyl-phenylether	100	102	80-109	2	30				
Chrysene	100	101	62-128	2	30				
Dibenz(a,h)anthracene	109	112	65-125	3	30				
Dibenzofuran	95	98	71-112	3	30				
1,2-Dichlorobenzene	91	90	66-108	1	30				
1,3-Dichlorobenzene	88	90	63-109	2	30				
1,4-Dichlorobenzene	90	88	58-108	3	30				
3,3'-Dichlorobenzidine	82	86	28-109	4	30				
2,4-Dichlorophenol	98	97	66-123	1	30				
Diethylphthalate	97	100	66-118	3	30				
2,4-Dimethylphenol	96	98	68-118	2	30				
3,5-Dimethylphenol	94	95	71-127	1	30				
Dimethylphthalate	97	99	64-118	2	30				
4,6-Dinitro-2-methylphenol	77	74	11-126	4	30				
2,4-Dinitrophenol	62	60	20-143	2	30				
2,4-Dinitrotoluene	93	96	56-129	3	30				
2,6-Dinitrotoluene	96	102	69-123	6	30				
1,2-Diphenylhydrazine	102	101	71-129	1	30				
bis(2-Ethylhexyl)phthalate	102	103	63-122	1	30				
Fluoranthene	97	101	73-112	4	30				
Fluorene	98	100	63-121	2	30				
Hexachlorobenzene	98	96	77-114	3	30				
Hexachlorobutadiene	105	104	62-120	1	30				
Hexachlorocyclopentadiene	94	93	10-153	1	30				
Hexachloroethane	92	90	57-109	2	30				
Indeno(1,2,3-cd)pyrene	108	113	61-126	5	30				
Isophorone	96	96	73-102	1	30				
1-Methylnaphthalene	91	92	64-122	1	30				
2-Methylnaphthalene	94	95	76-114	1	30				
2-Methylphenol	97	95	75-111	2	30				
4-Methylphenol	92	91	59-123	1	30				
Naphthalene	92	93	72-116	2	30				
2-Nitroaniline	101	105	67-125	3	30				
3-Nitroaniline	90	96	59-122	6	30				
4-Nitroaniline	75	80	41-109	7	30				
Nitrobenzene	96	97	57-125	1	30				
2-Nitrophenol	99	100	56-127	1	30				
4-Nitrophenol	81	90	37-129	11	30				
N-Nitroso-di-n-propylamine	93	91	60-116	1	30				
N-Nitrosodimethylamine	81	79	47-116	3	30				
N-Nitrosodiphenylamine	100	99	71-122	0	30				
Di-n-octylphthalate	107	110	56-126	3	30				
Pentachlorophenol	84	94	28-127	10	30				
Phenanthrene	97	97	65-125	0	30				
Phenol	88	87	58-126	1	30				
Pyrene	95	97	74-126	2	30				
Tetralin	0*	0*	70-130	0	30				
1,2,4-Trichlorobenzene	100	98	72-115	2	30				
2,4,5-Trichlorophenol	107	108	58-129	1	30				
2,4,6-Trichlorophenol	109	111	56-134	1	30				

Batch number: 11202SLC026 Sample number(s): 6345434-6345450,6345452-6345455 UNSPK: 6345448

Acenaphthene	93	92	63-105	2	30

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Acenaphthylene	95	88	67-114	8	30				
Anthracene	108	109	60-122	0	30				
Benzo(a)anthracene	120	174*	59-128	35*	30				
Benzo(a)pyrene	133	172*	45-138	24	30				
Benzo(b)fluoranthene	177*	194*	43-155	9	30				
Benzo(g,h,i)perylene	50	130	33-141	87*	30				
Benzo(k)fluoranthene	141	125	42-144	11	30				
Butylbenzylphthalate	85	87	57-173	2	30				
Di-n-butylphthalate	119	111	65-148	7	30				
Chrysene	115	173*	48-134	38*	30				
Dibenz(a,h)anthracene	55	115	22-133	70*	30				
Diethylphthalate	107	114	70-136	6	30				
Dimethylphthalate	102	101	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	133	129	39-167	3	30				
Fluoranthene	162	195*	26-166	17	30				
Fluorene	103	96	66-122	7	30				
Indeno(1,2,3-cd)pyrene	60	157*	21-143	88*	30				
1-Methylnaphthalene	86	86	72-123	0	30				
2-Methylnaphthalene	85	85	64-103	0	30				
Naphthalene	87	84	61-102	5	30				
N-Nitrosodimethylamine	93	86	48-113	8	30				
Di-n-octylphthalate	217*	91	40-192	82*	30				
Phenanthrene	107	127	12-165	16	30				
Pyrene	115	201*	15-153	52*	30				
Batch number: 11207SLC026	Sample number(s): 6345435-6345436,6345439-6345445 UNSPK: 6345435								
N-Nitrosodimethylamine	94	111	70-130	13	30				
Batch number: 11217SLD026	Sample number(s): 6345434 UNSPK: P361772								
N-Nitrosodimethylamine	54*	53*	70-130	1	30				
Batch number: 11199A34A	Sample number(s): 6345446-6345450,6345452-6345455 UNSPK: 6345448								
9a TPH by EPA 8015B Gas C5-C12	66	68	39-118	2	30				
Batch number: 112070007A	Sample number(s): 6345434-6345436,6345439-6345445 UNSPK: P343396								
4-Amino-2,6-Dinitrotoluene	107	108	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	105	107	80-137	2	50				
1,3-Dinitrobenzene	110	112	38-166	2	50				
2,4-Dinitrotoluene	101	104	80-131	2	50				
2,6-Dinitrotoluene	105	107	80-127	3	50				
HMX	90	91	63-128	1	50				
Nitrobenzene	103	107	80-125	4	50				
Nitroglycerin	85	85	80-120	1	50				
2-Nitrotoluene	103	106	80-122	3	50				
3-Nitrotoluene	111	114	72-119	2	50				
4-Nitrotoluene	102	105	80-125	3	50				
PETN	98	100	80-121	2	50				
RDX	87	89	75-129	2	50				
Tetryl	88	87	55-174	1	50				
1,3,5-Trinitrobenzene	102	105	82-126	3	50				
2,4,6-Trinitrotoluene	108	110	82-130	2	50				
Batch number: 111970008A	Sample number(s): 6345434-6345436,6345439-6345445 UNSPK: 6345434								

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
25a Formaldehyde 8315A	98	97	80-120	1	50				
Batch number: 112030003A	Sample number(s): 6345434-6345445 UNSPK: 6345434								
2,4-D	98	62	17-180	45*	35				
Dalapon	31	34	10-125	11	50				
2,4-DB	125	128	10-201	2	50				
Dicamba	200*	0*	10-190	200*	50				
Dinoseb	0*	0*	10-46	0	35				
2,4-DP (Dichlorprop)	92	97	33-178	6	50				
MCPA	49	87	10-213	56*	50				
MCPP (Mecoprop)	76	108	10-184	35	50				
2,4,5-T	39	37	10-156	3	35				
2,4,5-TP	59	63	24-141	6	35				
Batch number: 112020040A	Sample number(s): 6345434-6345445 UNSPK: 6345434								
Aldrin	64	67	16-126	5	50				
Alpha BHC	59	59	10-129	0	50				
Beta BHC	47	69	14-147	38	50				
Gamma BHC - Lindane	68	71	10-140	4	50				
p,p-DDD	72	73	16-163	2	50				
p,p-DDE	69	78	18-161	7	50				
p,p-DDT	79	90	10-176	6	50				
Delta BHC	3*	6*	23-140	5	50				
Dieldrin	60	72	19-154	18	50				
Endosulfan I	38	35	16-137	8	50				
Endosulfan II	83	95	28-154	14	50				
Endosulfan Sulfate	91	43	21-160	71*	50				
Endrin	72	72	11-149	0	50				
Endrin Aldehyde	77	86	10-148	11	35				
Endrin Ketone	89	103	22-165	14	50				
Heptachlor	68	71	13-126	4	50				
Heptachlor Epoxide	88	64	13-157	32	50				
Methoxychlor	87	101	32-147	14	50				
Batch number: 112060004A	Sample number(s): 6345434-6345450,6345452-6345455 UNSPK: 6345448								
PCB-1016	129	121	29-146	6	50				
PCB-1260	200*	155*	39-149	25	50				
Batch number: 111990002A	Sample number(s): 6345434-6345450,6345452-6345455 UNSPK: 6345448								
Diethylene glycol	34*	40*	59-109	16	20				
Ethylene glycol	56*	69	63-107	22*	20				
Propylene glycol	60*	74	63-107	20	20				
Batch number: 111990026A	Sample number(s): 6345434-6345450,6345452-6345455 UNSPK: 6345448								
Ethanol	0*	6*	48-130	200*	20				
Isopropanol	73	79	12-149	9	20				
Methanol	82	81	43-138	1	20				
Batch number: 112030005A	Sample number(s): 6345434-6345450,6345452-6345455 UNSPK: 6345448								
m-Terphenyl	76	81	75-125	5	20				
o-Terphenyl	90	101	75-125	12	20				
p-Terphenyl	89	88	75-125	2	20				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112040003A	Sample number(s): 6345434,6345436-6345450,6345452-6345453,6345455 UNSPK: 6345448								
EFH (C12-C14)	105	0*	49-123	200*	20				
EFH (C15-C20)	153*	307*	49-123	67*	20				
EFH (C21-C30)	-573 (2)	841 (2)	49-123	134*	20				
EFH (C30 - C40)	-1480 (2)	2368 (2)	49-123	142*	20				
EFH (C8-C11)	78	0*	49-123	200*	20				
Batch number: 112080002A	Sample number(s): 6345435,6345454 UNSPK: P348152								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	17*	-36*	49-123	14	20				
EFH (C21-C30)	-1851 (2)	-683 (2)	49-123	28*	20				
EFH (C30 - C40)	-2249 (2)	-1067 (2)	49-123	12	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 111991026002A	Sample number(s): 6345434-6345455 UNSPK: 6345448 BKG: 6345448								
Antimony	69*	59*	75-125	12	20	0.238	0.144 J	49* (1)	20
Arsenic	231*	141*	75-125	19	20	5.85	4.96	16	20
Beryllium	170*	132*	75-125	13	20	1.01	0.630	46*	20
Cadmium	190*	157*	75-125	18	20	0.108	0.148	31* (1)	20
Chromium	195*	139*	75-125	18	20	14.1	12.2	14	20
Cobalt	168*	135*	75-125	20	20	6.60	6.77	3	20
Copper	215*	153*	75-125	21*	20	11.2	11.1	1	20
Lead	305*	197*	75-125	21*	20	8.07	8.19	1	20
Nickel	209*	158*	75-125	18	20	9.83	8.60	13	20
Silver	164*	138*	75-125	17	20	0.0346 J	0.0320 J	8 (1)	20
Thallium	178*	144*	75-125	16	20	0.227	0.199	13 (1)	20
Vanadium	292*	173*	75-125	20	20	36.0	31.1	15	20
Zinc	362 (2)	222 (2)	75-125	17	20	52.7	50.8	4	20
Batch number: 111991026002B	Sample number(s): 6345434-6345455 UNSPK: 6345448 BKG: 6345448								
Selenium	159*	123	75-125	24*	20	0.160 J	0.144 J	11 (1)	20
Batch number: 111991026002C	Sample number(s): 6345434-6345455 UNSPK: 6345448 BKG: 6345448								
Molybdenum	168*	138*	75-125	19	20	0.824	0.863	5	20
Batch number: 111991026002D	Sample number(s): 6345434-6345455 UNSPK: 6345448 BKG: 6345448								
Barium	408 (2)	276 (2)	75-125	12	20	77.4	72.7	6	20
Batch number: 111995708003	Sample number(s): 6345434-6345455 UNSPK: 6345448 BKG: 6345448								
Boron	95	97	84-115	1	20	1.99 J	1.70 J	16 (1)	20
Calcium	29 (2)	57 (2)	75-125	2	20	4,390	3,960	10	20
Iron	-357 (2)	420 (2)	75-125	4	20	18,100	16,700	8	20
Lithium	103	105	82-114	1	20	8.8	8.0	9 (1)	20
Magnesium	475 (2)	627 (2)	75-125	6	20	3,930	3,630	8	20
Manganese	77	127*	75-125	12	20	152	130	16	20
Phosphorus	97	115	75-125	4	20	351	342	3	20
Potassium	101	109	75-125	2	20	2,170	1,940	11	20
Sodium	97	100	75-125	1	20	285	272	5 (1)	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Strontium	100	103	75-115	2	20	27.5		25.0		10	20
Tin	91	91	80-110	1	20	2.15	J	2.12	J	1 (1)	20
Zirconium	97	96	75-125	2	20	2.47	J	3.01	J	20 (1)	20
Batch number: 111995711003	Sample number(s): 6345434-6345455 UNSPK: 6345448 BKG: 6345448										
Mercury	106	402*	65-135	48*	20	0.601		1.04		54* (1)	20
Batch number: 112075708001	Sample number(s): 6345434-6345455 UNSPK: 6345448 BKG: 6345448										
Aluminum	1545 (2)	2297 (2)	75-125	10	20	12,000		11,300		7	20
Titanium	141 (2)	244 (2)	75-125	10	20	828		744		11	20
Batch number: 11206206201A	Sample number(s): 6345434-6345443 UNSPK: 6345434 BKG: 6345434										
7a Perchlorate EPA 314.0	116		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11206206201B	Sample number(s): 6345444-6345449,6345451-6345455 UNSPK: 6345448 BKG: 6345448										
7a Perchlorate EPA 314.0	93		80-120			9.0	U	9.0	U	200* (1)	15
Batch number: 11207621202A	Sample number(s): 6345434-6345443 UNSPK: 6345434 BKG: 6345434										
11a Anions by 300.0 - Fluoride	64*		80-120			2.0		1.8		9 (1)	20
11a Anions by 300.0 - Nitrate	96		80-120			1.3	J	1.1	J	14 (1)	20
Batch number: 11207621202B	Sample number(s): 6345444-6345449,6345451-6345455 UNSPK: 6345448 BKG: 6345448										
11a Anions by 300.0 - Fluoride	92		80-120			2.4		2.3		3 (1)	20
11a Anions by 300.0 - Nitrate	97		80-120			0.87	J	0.83	J	4 (1)	20
Batch number: 11208243202A	Sample number(s): 6345434-6345449,6345451-6345455 UNSPK: 6345448 BKG: 6345448										
3a Cr VI by EPA 7199	85		75-125			0.35	J	0.34	J	4 (1)	20
Batch number: 11209102201A	Sample number(s): 6345434-6345436,6345439-6345445 UNSPK: 6345445 BKG: 6345445										
17a Cyanide by 9012B	98		75-125			0.18	U	0.18	U	0 (1)	20
Batch number: 11206039404A	Sample number(s): 6345434-6345442 BKG: 6345434										
18a pH by 9045C						7.37		7.39		0	3
Batch number: 11206039404B	Sample number(s): 6345443-6345448,6345451-6345455 BKG: 6345448										
18a pH by 9045C						8.83		8.79		0	3
Batch number: 11199162401B	Sample number(s): 6345437-6345438,6345446-6345455 BKG: 6345448										
28a Moisture Content by 160.3						7.0		7.1		2	20
Moisture Content by 160.3						7.0		7.1		2	20
Moisture Content by 160.3						7.0		7.1		2	20
Batch number: 11214162401A	Sample number(s): 6345434-6345436,6345439-6345445 BKG: 6345435										
Moisture Content by 160.3						0.50	U	0.50	U	0 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256494
Reported: 08/24/11 at 02:01 PM

Surrogate Quality Control

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B112011AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6345446	110	110	95	97
6345448	109	103	97	93
6345449	106	103	100	106
6345450	105	101	101	105
6345453	109	106	94	96
6345455	110	104	95	91
Blank	111	108	93	95
LCS	106	104	98	106
MS	106	103	100	106
MSD	105	101	101	105
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111961AA

	Toluene-d8
6345446	97
6345448	98
6345449	98
6345450	98
6345453	98
6345455	98
Blank	98
LCS	98
LCSD	98
MS	98
MSD	98
Limits:	70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E112011AA

	Toluene-d8
6345456	104
Blank	101
LCS	102
LCSD	102
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y112011AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6345456	106	101	90	87
Blank	106	107	90	87
LCS	107	109	92	91
LCSD	106	110	92	91
Limits:	86-118	80-120	88-110	86-115

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256494
Reported: 08/24/11 at 02:01 PM

Surrogate Quality Control

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11202SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6345434	93	91	88	89	96	84
6345435	87	86	88	88	94	85
6345436	84	83	89	86	92	83
6345437	81	79	85	81	86	81
6345438	84	82	90	86	93	86
6345439	83	82	87	85	89	83
6345440	85	83	84	84	90	80
6345441	75	75	75	76	82	71
6345442	89	87	91	87	91	85
6345443	90	88	91	88	94	83
6345444	84	80	83	84	90	81
6345445	86	83	87	85	93	86
6345446	88	85	89	84	96	86
6345447	83	82	73	84	92	76
6345448	83	80	86	81	88	84
6345449	94	92	86	89	96	84
6345450	91	89	91	90	95	83
6345452	90	89	73	90	96	80
6345453	92	87	83	90	98	85
6345454	87	85	86	85	93	84
6345455	86	84	84	86	96	83
Blank	64	64	61	60	62	58
LCS	80	78	70	71	72	63
MS	94	92	86	89	96	84
MSD	91	89	91	90	95	83
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11202SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6345434	119	91	84
6345435	95	86	84
6345436	108	93	84
6345437	108	92	84
6345438	102	93	86
6345439	104	91	88
6345440	86	101	112
6345441	117	89	80
6345442	106	93	84
6345443	108	91	83
6345444	106	88	72
6345445	116	91	96
6345446	96	86	76
6345447	97	89	74
6345448	92	84	79
6345449	107	91	87
6345450	97	89	102
6345452	99	88	74
6345453	95	86	71
6345454	97	93	87
6345455	90	81	68

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256494
Reported: 08/24/11 at 02:01 PM

Surrogate Quality Control

Blank	95	90	102
LCS	93	87	99
MS	107	91	87
MSD	97	89	102
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11207SLC026

	N-Nitrosodimethylamine-d6
6345435	94
6345436	89
6345439	101
6345440	88
6345441	102
6345442	71
6345443	99
6345444	100
6345445	96
Blank	97
LCS	102
MS	96
MSD	81
Limits:	50-150

Analysis Name: 15a NDMA by 1625C
Batch number: 11217SLD026

	N-Nitrosodimethylamine-d6
6345434	115
Blank	107
LCS	114
MS	105
MSD	105
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11199A34A

	Trifluorotoluene-F
6345446	72
6345447	106
6345448	81
6345449	81
6345450	81
6345452	109
6345453	84
6345454	73
6345455	80
Blank	78
LCS	90
MS	81

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256494
Reported: 08/24/11 at 02:01 PM

Surrogate Quality Control

MSD 81

Limits: 61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11201A20A

	Trifluorotoluene-F
6345456	89
Blank	88
LCS	111
LCSD	107

Limits: 63-135

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111970008A

	Butyraldehyde
6345434	92
6345435	93
6345436	91
6345439	83
6345440	95
6345441	92
6345442	83
6345443	91
6345444	96
6345445	93
Blank	99
LCS	93
MS	92
MSD	91

Limits: 64-126

Analysis Name: 12a Pesticides by 8081A
Batch number: 112020040A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6345434	67	121*
6345435	61	90
6345436	59	83
6345437	63	71
6345438	68	89
6345439	63	66
6345440	49*	122*
6345441	61	91
6345442	66	109
6345443	75	110
6345444	82	162*
6345445	70	65
Blank	62	99
LCS	70	100
MS	57	97
MSD	55	97

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256494
Reported: 08/24/11 at 02:01 PM

Surrogate Quality Control

Limits: 50-130 20-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112030003A

	2,4-Dichlorophenylacetic acid
6345434	102
6345435	106
6345436	88
6345437	120
6345438	75
6345439	116
6345440	121
6345441	129
6345442	102
6345443	139
6345444	173*
6345445	143
Blank	147
LCS	134
MS	110
MSD	100

Limits: 36-156

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112060004A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6345434	91	87
6345435	95	98
6345436	96	91
6345437	98	90
6345438	93	87
6345439	96	105
6345440	93	92
6345441	87	89
6345442	96	92
6345443	83	62
6345444	88	61
6345445	93	67
6345446	89	78
6345447	72	67
6345448	100	81
6345449	98	78
6345450	99	70
6345452	101	63
6345453	83	86
6345454	108	118
6345455	110	110
Blank	93	95
LCS	102	103
LCSD	96	101
MS	98	78
MSD	99	32*

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256494
Reported: 08/24/11 at 02:01 PM

Surrogate Quality Control

Limits: 53-139 45-120

Analysis Name: 16a Energetics by 8330A
Batch number: 112070007A

	2-Nitro-m-xylene
6345434	135
6345435	133
6345436	125
6345439	138
6345440	120
6345441	130
6345442	133
6345443	125
6345444	124
6345445	134
Blank	132
LCS	131
LCSD	117
MS	117
MSD	112
Limits:	80-146

Analysis Name: 21a Glycols by 8015B
Batch number: 111990002A

	Tetramethylene glycol
6345434	89
6345435	89
6345436	99
6345437	100
6345438	89
6345439	85
6345440	93
6345441	105
6345442	102
6345443	110
6345444	96
6345445	98
6345446	86
6345447	89
6345448	94
6345449	96
6345450	101
6345452	94
6345453	93
6345454	99
6345455	87
Blank	97
LCS	102
MS	96
MSD	101
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 111990026A

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256494
Reported: 08/24/11 at 02:01 PM

Surrogate Quality Control

	Acetone
6345434	117
6345435	91
6345436	95
6345437	91
6345438	126
6345439	104
6345440	109
6345441	124
6345442	120
6345443	93
6345444	120
6345445	108
6345446	92
6345447	96
6345448	94
6345449	100
6345450	91
6345452	93
6345453	96
6345454	100
6345455	93
Blank	101
LCS	102
MS	100
MSD	91
Limits:	42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 112030005A

	n-Triacontane-d62
6345434	67
6345435	84
6345436	68
6345437	67
6345438	67
6345439	76
6345440	71
6345441	71
6345442	61
6345443	39*
6345444	34*
6345445	64
6345446	67
6345447	91
6345448	127
6345449	87
6345450	57
6345452	70
6345453	72
6345454	85
6345455	71
Blank	93
LCS	91
MS	87

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256494
Reported: 08/24/11 at 02:01 PM

Surrogate Quality Control

MSD 57

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112040003A

	Chlorobenzene	Orthoterphenyl
6345434	94	119
6345436	94	114
6345437	93	115
6345438	95	123
6345439	95	118
6345440	96	118
6345441	92	115
6345442	93	117
6345443	93	124
6345444	92	114
6345445	92	116
6345446	80	106
6345447	86	115
6345448	86	108
6345449	92	116
6345450	91	113
6345452	85	117
6345453	88	119
6345455	78	102
Blank	97	115
LCS	93	115
MS	92	116
MSD	91	113
Limits:	37-125	47-145

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112080002A

	Chlorobenzene	Orthoterphenyl
6345435	77	101
6345454	79	99
Blank	86	108
LCS	85	105
MS	91	112
MSD	86	109
Limits:	37-125	47-145

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acct# 13013 Gp# 1256494 Sample# 6345434-56

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-037-SA6-SS-0.0-0.5	07.14.11	1354	SOIL	NONE	1-SS Sleeve			X	X																	
SL-037-SA6-SS-0.0-0.5	07.14.11	1354	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-048-SA6-SS-0.0-0.5	07.14.11	1546	SOIL	NONE	1-SS Sleeve			X	X																	
SL-048-SA6-SS-0.0-0.5	07.14.11	1546	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-049-SA6-SS-0.0-0.5	07.14.11	1426	SOIL	NONE	1-SS Sleeve			X	X																	
SL-049-SA6-SS-0.0-0.5	07.14.11	1426	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-050-SA6-SS-0.0-0.5	07.14.11	0827	SOIL	NONE	1-SS Sleeve			X	X																	
SL-050-SA6-SS-0.0-0.5	07.14.11	0827	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-051-SA6-SS-0.0-0.5	07.14.11	0807	SOIL	NONE	1-SS Sleeve			X	X																	
SL-051-SA6-SS-0.0-0.5	07.14.11	0807	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-052-SA6-SS-0.0-0.5	07.14.11	1017	SOIL	NONE	1-SS Sleeve			X	X																	
SL-052-SA6-SS-0.0-0.5	07.14.11	1017	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-053-SA6-SS-0.0-0.5	07.14.11	0952	SOIL	NONE	1-SS Sleeve			X	X																	
SL-053-SA6-SS-0.0-0.5	07.14.11	0952	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-054-SA6-SS-0.0-0.5	07.14.11	0920	SOIL	NONE	1-SS Sleeve			X	X																	
SL-054-SA6-SS-0.0-0.5	07.14.11	0920	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-055-SA6-SS-0.0-0.5	07.14.11	0853	SOIL	NONE	1-SS Sleeve			X	X																	
SL-055-SA6-SS-0.0-0.5	07.14.11	0853	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-060-SA6-SS-0.0-0.5	07.14.11	1038	SOIL	NONE	1-SS Sleeve			X	X																	
SL-060-SA6-SS-0.0-0.5	07.14.11	1038	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-063-SA6-SS-0.0-0.5	07.14.11	1116	SOIL	NONE	1-SS Sleeve			X	X																	
SL-063-SA6-SS-0.0-0.5	07.14.11	1116	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-064-SA6-SS-0.0-0.5	07.14.11	1329	SOIL	NONE	1-SS Sleeve			X	X																	
SL-064-SA6-SS-0.0-0.5	07.14.11	1329	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	07/14/2011 / 1600	LIZ 7/15/11 910	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3340 5771, 5782,5793	

acct# 13013 Cp# 1256494 sample# 6345434-56

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-071-SA6-SB-4.5	07.14.11	1430	SOIL	NONE	5-Encores										X	X	X										
SL-071-SA6-SB-4.0-5.0	07.14.11	1435	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-071-SA6-SB-7.0	07.14.11	1440	SOIL	NONE	1-Encores												X										
SL-071-SA6-SB-6.0-7.0	07.14.11	1445	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-074-SA6-SB-4.5MS	07.14.11	0810	SOIL	NONE	15-Encores										X	X	X										MS/MSD
SL-074-SA6-SB-4.0-5.0MS	07.14.11	0815	SOIL	NONE	9-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	MS/MSD
SL-074-SA6-SB-9.5	07.14.11	0830	SOIL	NONE	1-Encores												X										
SL-074-SA6-SB-9.0-10.0	07.14.11	0835	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-088-SA6-SB-4.5	07.14.11	1040	SOIL	NONE	5-Encores										X	X	X										
SL-088-SA6-SB-4.0-5.0	07.14.11	1045	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-088-SA6-SB-9.5	07.14.11	1050	SOIL	NONE	1-Encores												X										
SL-088-SA6-SB-9.0-10.0	07.14.11	1055	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
DUP02-SA6-QC-071411	07.14.11	0820	SOIL	NONE	5-Encores										X	X	X										
DUP02-SA6-QC-071411	07.14.11	0825	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
TB-071411	07.14.11	0800	WATER	NONE	4-40mL vials										X	X	X										

Relinquished by: (*Signature*) — Date/Time: 07/14/2011 / 1600 — Received for Laboratory by: (*Signature*) LLI 7/15/11 910 — Laboratory: Lancaster Laboratories, Inc.

Received by: (*Signature*) — Date/Time — Airbill No.(s): 8754 3340 5771, 5782, 5793

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 15, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/15/2011
Group Number: 1256495
SDG: DX112
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-037-SA6-SS-0.0-0.5 Soil	6345457
SL-048-SA6-SS-0.0-0.5 Soil	6345458
SL-049-SA6-SS-0.0-0.5 Soil	6345459
SL-050-SA6-SS-0.0-0.5 Soil	6345460
SL-051-SA6-SS-0.0-0.5 Soil	6345461
SL-052-SA6-SS-0.0-0.5 Soil	6345462
SL-053-SA6-SS-0.0-0.5 Soil	6345463
SL-054-SA6-SS-0.0-0.5 Soil	6345464
SL-055-SA6-SS-0.0-0.5 Soil	6345465
SL-060-SA6-SS-0.0-0.5 Soil	6345466
SL-063-SA6-SS-0.0-0.5 Soil	6345467
SL-064-SA6-SS-0.0-0.5 Soil	6345468

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-037-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA6-SS-0.0-0.5

LLI Sample # SW 6345457
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:54

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1210 SDG#: DX112-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-037-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA6-SS-0.0-0.5

LLI Sample # SW 6345457
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:54

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1210 SDG#: DX112-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0774	JQ	0.0220	0.990	1
11031	12378-PeCDD	40321-76-4	0.138	JQ	0.0228	4.95	1
11031	123478-HxCDD	39227-28-6	0.130	J	0.0296	4.95	1
11031	123678-HxCDD	57653-85-7	0.247	JB	0.0299	4.95	1
11031	123789-HxCDD	19408-74-3	0.241	JB	0.0297	4.95	1
11031	1234678-HpCDD	35822-46-9	3.64	JB	0.0273	4.95	1
11031	OCDD	3268-87-9	24.8	B	0.0240	9.90	1
11031	2378-TCDF	51207-31-9	0.158	JQ	0.0341	0.990	1
11031	12378-PeCDF	57117-41-6	0.225	JBQ	0.0193	4.95	1
11031	23478-PeCDF	57117-31-4	0.335	JB	0.0181	4.95	1
11031	123478-HxCDF	70648-26-9	0.248	JB	0.0240	4.95	1
11031	123678-HxCDF	57117-44-9	0.143	JB	0.0206	4.95	1
11031	123789-HxCDF	72918-21-9	0.134	J	0.0236	4.95	1
11031	234678-HxCDF	60851-34-5	0.176	JB	0.0218	4.95	1
11031	1234678-HpCDF	67562-39-4	0.564	JB	0.0139	4.95	1
11031	1234789-HpCDF	55673-89-7	0.109	JBQ	0.0226	4.95	1
11031	OCDF	39001-02-0	1.06	JB	0.0286	9.90	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	72	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-037-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA6-SS-0.0-0.5

LLI Sample # SW 6345457
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:54

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1210 SDG#: DX112-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-037-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA6-SS-0.0-0.5

LLI Sample # SW 6345457
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:54

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1210 SDG#: DX112-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11207001	07/29/2011 21:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11207001	07/26/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

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Analysis Report

Sample Description: SL-048-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA6-SS-0.0-0.5

LLI Sample # SW 6345458
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 15:46

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1211 SDG#: DX112-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%		%	%	
11625	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-048-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA6-SS-0.0-0.5

LLI Sample # SW 6345458
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 15:46

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1211 SDG#: DX112-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0402	JQ	0.0277	0.996	1
11031	12378-PeCDD	40321-76-4	0.122	J	0.0278	4.98	1
11031	123478-HxCDD	39227-28-6	0.179	J	0.0459	4.98	1
11031	123678-HxCDD	57653-85-7	0.613	JB	0.0448	4.98	1
11031	123789-HxCDD	19408-74-3	0.441	JB	0.0431	4.98	1
11031	1234678-HpCDD	35822-46-9	20.9	B	0.0555	4.98	1
11031	OCDD	3268-87-9	205	B	0.0455	9.96	1
11031	2378-TCDF	51207-31-9	0.224	JQ	0.0656	0.996	1
11031	12378-PeCDF	57117-41-6	0.700	JBQ	0.0337	4.98	1
11031	23478-PeCDF	57117-31-4	0.0335	U	0.0335	4.98	1
11031	123478-HxCDF	70648-26-9	0.625	JB	0.0376	4.98	1
11031	123678-HxCDF	57117-44-9	0.197	JBQ	0.0330	4.98	1
11031	123789-HxCDF	72918-21-9	0.111	J	0.0380	4.98	1
11031	234678-HxCDF	60851-34-5	0.200	JB	0.0345	4.98	1
11031	1234678-HpCDF	67562-39-4	4.02	JB	0.0175	4.98	1
11031	1234789-HpCDF	55673-89-7	0.222	JB	0.0298	4.98	1
11031	OCDF	39001-02-0	14.2	B	0.0329	9.96	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	67	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-048-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA6-SS-0.0-0.5

LLI Sample # SW 6345458
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 15:46

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1211 SDG#: DX112-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-048-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA6-SS-0.0-0.5

LLI Sample # SW 6345458
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 15:46

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1211 SDG#: DX112-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11207001	07/29/2011 22:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11207001	07/26/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA6-SS-0.0-0.5

LLI Sample # SW 6345459
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:26

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1212 SDG#: DX112-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.78	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-049-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA6-SS-0.0-0.5

LLI Sample # SW 6345459
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:26

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1212 SDG#: DX112-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0442	JQ	0.0272	1.00	1
11031	12378-PeCDD	40321-76-4	0.331	JQ	0.0271	5.01	1
11031	123478-HxCDD	39227-28-6	0.367	J	0.0374	5.01	1
11031	123678-HxCDD	57653-85-7	0.564	JB	0.0368	5.01	1
11031	123789-HxCDD	19408-74-3	0.726	JB	0.0368	5.01	1
11031	1234678-HpCDD	35822-46-9	7.28	B	0.0343	5.01	1
11031	OCDD	3268-87-9	83.4	B	0.0368	10.0	1
11031	2378-TCDF	51207-31-9	0.0848	JQ	0.0317	1.00	1
11031	12378-PeCDF	57117-41-6	0.268	JBQ	0.0179	5.01	1
11031	23478-PeCDF	57117-31-4	0.326	JB	0.0170	5.01	1
11031	123478-HxCDF	70648-26-9	0.280	JB	0.0289	5.01	1
11031	123678-HxCDF	57117-44-9	0.298	JB	0.0269	5.01	1
11031	123789-HxCDF	72918-21-9	0.334	J	0.0312	5.01	1
11031	234678-HxCDF	60851-34-5	0.321	JB	0.0276	5.01	1
11031	1234678-HpCDF	67562-39-4	1.17	JB	0.0167	5.01	1
11031	1234789-HpCDF	55673-89-7	0.306	JB	0.0242	5.01	1
11031	OCDF	39001-02-0	2.91	JB	0.0274	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	72	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-049-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA6-SS-0.0-0.5

LLI Sample # SW 6345459
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:26

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1212 SDG#: DX112-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA6-SS-0.0-0.5

LLI Sample # SW 6345459
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:26

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1212 SDG#: DX112-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11207001	07/29/2011 23:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11207001	07/26/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA6-SS-0.0-0.5

LLI Sample # SW 6345460
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:27

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1213 SDG#: DX112-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-050-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA6-SS-0.0-0.5

LLI Sample # SW 6345460
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:27

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1213 SDG#: DX112-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.301	J	0.0436	1.01	1
11031	12378-PeCDD	40321-76-4	1.12	JQ	0.0632	5.06	1
11031	123478-HxCDD	39227-28-6	107		0.0741	5.06	1
11031	123678-HxCDD	57653-85-7	5.17	B	0.0770	5.06	1
11031	123789-HxCDD	19408-74-3	1.96	JB	0.0758	5.06	1
11031	1234678-HpCDD	35822-46-9	199	B	0.129	5.06	1
11031	OCDD	3268-87-9	1,370	B	0.0825	10.1	1
11031	2378-TCDF	51207-31-9	0.178	J	0.0664	1.01	1
11031	12378-PeCDF	57117-41-6	0.404	JB	0.0329	5.06	1
11031	23478-PeCDF	57117-31-4	0.406	JB	0.0313	5.06	1
11031	123478-HxCDF	70648-26-9	0.546	JB	0.0378	5.06	1
11031	123678-HxCDF	57117-44-9	0.480	JB	0.0353	5.06	1
11031	123789-HxCDF	72918-21-9	0.154	J	0.0409	5.06	1
11031	234678-HxCDF	60851-34-5	0.577	JBQ	0.0368	5.06	1
11031	1234678-HpCDF	67562-39-4	7.95	B	0.0369	5.06	1
11031	1234789-HpCDF	55673-89-7	0.911	JB	0.0595	5.06	1
11031	OCDF	39001-02-0	20.6	B	0.0386	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	99	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	78	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA6-SS-0.0-0.5

LLI Sample # SW 6345460
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:27

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1213 SDG#: DX112-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA6-SS-0.0-0.5

LLI Sample # SW 6345460
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:27

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1213 SDG#: DX112-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11207001	07/30/2011 00:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11207001	07/26/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11199162401B	07/18/2011 20:06	Scott W Freisher	1

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Analysis Report

Sample Description: SL-051-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA6-SS-0.0-0.5

LLI Sample # SW 6345461
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:07

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1214 SDG#: DX112-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-051-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA6-SS-0.0-0.5

LLI Sample # SW 6345461
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:07

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1214 SDG#: DX112-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0457	JQ	0.0286	1.01	1
11031	12378-PeCDD	40321-76-4	0.312	J	0.0403	5.07	1
11031	123478-HxCDD	39227-28-6	0.359	J	0.0469	5.07	1
11031	123678-HxCDD	57653-85-7	1.46	JB	0.0482	5.07	1
11031	123789-HxCDD	19408-74-3	1.22	JB	0.0457	5.07	1
11031	1234678-HpCDD	35822-46-9	22.8	B	0.0513	5.07	1
11031	OCDD	3268-87-9	217	B	0.0458	10.1	1
11031	2378-TCDF	51207-31-9	0.330	JQ	0.0716	1.01	1
11031	12378-PeCDF	57117-41-6	0.190	JB	0.0340	5.07	1
11031	23478-PeCDF	57117-31-4	0.712	JB	0.0336	5.07	1
11031	123478-HxCDF	70648-26-9	0.534	JB	0.0314	5.07	1
11031	123678-HxCDF	57117-44-9	0.352	JBQ	0.0278	5.07	1
11031	123789-HxCDF	72918-21-9	0.118	JQ	0.0346	5.07	1
11031	234678-HxCDF	60851-34-5	0.272	JBQ	0.0294	5.07	1
11031	1234678-HpCDF	67562-39-4	3.20	JB	0.0218	5.07	1
11031	1234789-HpCDF	55673-89-7	0.347	JB	0.0352	5.07	1
11031	OCDF	39001-02-0	7.68	JB	0.0284	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	72	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-051-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA6-SS-0.0-0.5

LLI Sample # SW 6345461
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:07

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1214 SDG#: DX112-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-051-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA6-SS-0.0-0.5

LLI Sample # SW 6345461
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:07

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1214 SDG#: DX112-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11207001	07/30/2011 01:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11207001	07/26/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11199162401B	07/18/2011 20:06	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-052-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA6-SS-0.0-0.5

LLI Sample # SW 6345462
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:17

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1215 SDG#: DX112-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-052-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA6-SS-0.0-0.5

LLI Sample # SW 6345462
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:17

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1215 SDG#: DX112-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0332	JQ	0.0273	1.00	1
11031	12378-PeCDD	40321-76-4	0.309	J	0.0515	5.02	1
11031	123478-HxCDD	39227-28-6	0.578	J	0.0532	5.02	1
11031	123678-HxCDD	57653-85-7	5.76	B	0.0540	5.02	1
11031	123789-HxCDD	19408-74-3	1.93	JB	0.0511	5.02	1
11031	1234678-HpCDD	35822-46-9	142	B	0.0985	5.02	1
11031	OCDD	3268-87-9	1,330	B	0.0960	10.0	1
11650	2378-TCDF-Conf	51207-31-9	1.46	C	0.0914	1.00	1
11031	12378-PeCDF	57117-41-6	11.6	B	0.0907	5.02	1
11031	23478-PeCDF	57117-31-4	2.07	JBQ	0.0856	5.02	1
11031	123478-HxCDF	70648-26-9	2.64	JB	0.0570	5.02	1
11031	123678-HxCDF	57117-44-9	1.59	JB	0.0536	5.02	1
11031	123789-HxCDF	72918-21-9	0.430	J	0.0738	5.02	1
11031	234678-HxCDF	60851-34-5	1.40	JB	0.0561	5.02	1
11031	1234678-HpCDF	67562-39-4	23.1	B	0.0378	5.02	1
11031	1234789-HpCDF	55673-89-7	2.82	JB	0.0501	5.02	1
11031	OCDF	39001-02-0	58.4	B	0.0306	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-2378-TCDF-Conf	68	24 - 169
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	69	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-052-SA6-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA6-SS-0.0-0.5

LLI Sample # SW 6345462
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:17

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1215 SDG#: DX112-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-052-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA6-SS-0.0-0.5

LLI Sample # SW 6345462
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:17

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1215 SDG#: DX112-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11207001	07/30/2011 02:03	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11207001	08/05/2011 04:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11207001	07/26/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-053-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA6-SS-0.0-0.5

LLI Sample # SW 6345463
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:52

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1216 SDG#: DX112-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-053-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA6-SS-0.0-0.5

LLI Sample # SW 6345463
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:52

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1216 SDG#: DX112-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0396	JQ	0.0334	0.994	1
11031	12378-PeCDD	40321-76-4	0.266	JQ	0.0339	4.97	1
11031	123478-HxCDD	39227-28-6	0.291	J	0.0485	4.97	1
11031	123678-HxCDD	57653-85-7	1.22	JB	0.0484	4.97	1
11031	123789-HxCDD	19408-74-3	0.944	JB	0.0482	4.97	1
11031	1234678-HpCDD	35822-46-9	28.0	B	0.0550	4.97	1
11031	OCDD	3268-87-9	246	B	0.0502	9.94	1
11031	2378-TCDF	51207-31-9	0.138	JQ	0.0507	0.994	1
11031	12378-PeCDF	57117-41-6	0.221	JB	0.0246	4.97	1
11031	23478-PeCDF	57117-31-4	0.359	JBQ	0.0249	4.97	1
11031	123478-HxCDF	70648-26-9	0.327	JBQ	0.0343	4.97	1
11031	123678-HxCDF	57117-44-9	0.244	JBQ	0.0298	4.97	1
11031	123789-HxCDF	72918-21-9	0.109	JQ	0.0356	4.97	1
11031	234678-HxCDF	60851-34-5	0.267	JBQ	0.0314	4.97	1
11031	1234678-HpCDF	67562-39-4	3.89	JB	0.0251	4.97	1
11031	1234789-HpCDF	55673-89-7	0.392	JB	0.0419	4.97	1
11031	OCDF	39001-02-0	9.23	JB	0.0344	9.94	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-053-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA6-SS-0.0-0.5

LLI Sample # SW 6345463
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:52

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1216 SDG#: DX112-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-053-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA6-SS-0.0-0.5

LLI Sample # SW 6345463
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:52

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1216 SDG#: DX112-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11207001	07/30/2011 02:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11207001	07/26/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-054-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA6-SS-0.0-0.5

LLI Sample # SW 6345464
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:20

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1217 SDG#: DX112-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-054-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA6-SS-0.0-0.5

LLI Sample # SW 6345464
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:20

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1217 SDG#: DX112-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0688	JQ	0.0402	1.01	1
11031	12378-PeCDD	40321-76-4	0.277	J	0.0434	5.06	1
11031	123478-HxCDD	39227-28-6	0.407	JQ	0.0610	5.06	1
11031	123678-HxCDD	57653-85-7	1.74	JB	0.0627	5.06	1
11031	123789-HxCDD	19408-74-3	1.02	JB	0.0636	5.06	1
11031	1234678-HpCDD	35822-46-9	41.4	B	0.0797	5.06	1
11031	OCDD	3268-87-9	396	B	0.0712	10.1	1
11031	2378-TCDF	51207-31-9	0.306	J	0.0883	1.01	1
11031	12378-PeCDF	57117-41-6	0.521	JB	0.0434	5.06	1
11031	23478-PeCDF	57117-31-4	0.529	JBQ	0.0431	5.06	1
11031	123478-HxCDF	70648-26-9	0.567	JBQ	0.0542	5.06	1
11031	123678-HxCDF	57117-44-9	0.357	JB	0.0477	5.06	1
11031	123789-HxCDF	72918-21-9	0.109	JQ	0.0643	5.06	1
11031	234678-HxCDF	60851-34-5	0.442	JB	0.0517	5.06	1
11031	1234678-HpCDF	67562-39-4	5.58	B	0.0361	5.06	1
11031	1234789-HpCDF	55673-89-7	0.580	JB	0.0603	5.06	1
11031	OCDF	39001-02-0	13.6	B	0.0387	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-054-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA6-SS-0.0-0.5

LLI Sample # SW 6345464
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:20

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1217 SDG#: DX112-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-054-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA6-SS-0.0-0.5

LLI Sample # SW 6345464
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:20

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1217 SDG#: DX112-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11207001	07/30/2011 03:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11207001	07/26/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-055-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA6-SS-0.0-0.5

LLI Sample # SW 6345465
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:53

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1218 SDG#: DX112-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-055-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA6-SS-0.0-0.5

LLI Sample # SW 6345465
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:53

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1218 SDG#: DX112-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0545	JQ	0.0337	1.01	1
11031	12378-PeCDD	40321-76-4	0.194	J	0.0322	5.03	1
11031	123478-HxCDD	39227-28-6	0.278	J	0.0493	5.03	1
11031	123678-HxCDD	57653-85-7	1.15	JB	0.0489	5.03	1
11031	123789-HxCDD	19408-74-3	0.913	JB	0.0463	5.03	1
11031	1234678-HpCDD	35822-46-9	17.3	B	0.0502	5.03	1
11031	OCDD	3268-87-9	157	B	0.0469	10.1	1
11031	2378-TCDF	51207-31-9	0.287	JQ	0.0827	1.01	1
11031	12378-PeCDF	57117-41-6	0.369	JB	0.0343	5.03	1
11031	23478-PeCDF	57117-31-4	0.596	JB	0.0344	5.03	1
11031	123478-HxCDF	70648-26-9	0.399	JB	0.0349	5.03	1
11031	123678-HxCDF	57117-44-9	0.328	JB	0.0304	5.03	1
11031	123789-HxCDF	72918-21-9	0.151	JQ	0.0401	5.03	1
11031	234678-HxCDF	60851-34-5	0.298	JB	0.0335	5.03	1
11031	1234678-HpCDF	67562-39-4	2.98	JB	0.0208	5.03	1
11031	1234789-HpCDF	55673-89-7	0.364	JB	0.0390	5.03	1
11031	OCDF	39001-02-0	6.88	JB	0.0395	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	108	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	104	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	77	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-055-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA6-SS-0.0-0.5

LLI Sample # SW 6345465
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:53

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1218 SDG#: DX112-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-055-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA6-SS-0.0-0.5

LLI Sample # SW 6345465
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:53

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1218 SDG#: DX112-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11207001	07/30/2011 04:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11207001	07/26/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-060-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA6-SS-0.0-0.5

LLI Sample # SW 6345466
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:38

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1219 SDG#: DX112-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-060-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA6-SS-0.0-0.5

LLI Sample # SW 6345466
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:38

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1219 SDG#: DX112-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0809	JQ	0.0320	1.01	1
11031	12378-PeCDD	40321-76-4	0.541	JQ	0.0484	5.07	1
11031	123478-HxCDD	39227-28-6	0.961	J	0.0567	5.07	1
11031	123678-HxCDD	57653-85-7	4.40	JB	0.0576	5.07	1
11031	123789-HxCDD	19408-74-3	1.96	JB	0.0577	5.07	1
11031	1234678-HpCDD	35822-46-9	117	B	0.0938	5.07	1
11031	OCDD	3268-87-9	1,080	B	0.0721	10.1	1
11031	2378-TCDF	51207-31-9	0.696	J	0.114	1.01	1
11031	12378-PeCDF	57117-41-6	0.698	JB	0.0498	5.07	1
11031	23478-PeCDF	57117-31-4	0.947	JB	0.0476	5.07	1
11031	123478-HxCDF	70648-26-9	1.42	JB	0.0444	5.07	1
11031	123678-HxCDF	57117-44-9	0.972	JB	0.0408	5.07	1
11031	123789-HxCDF	72918-21-9	0.232	J	0.0466	5.07	1
11031	234678-HxCDF	60851-34-5	1.25	JB	0.0424	5.07	1
11031	1234678-HpCDF	67562-39-4	16.4	B	0.0386	5.07	1
11031	1234789-HpCDF	55673-89-7	1.77	JB	0.0546	5.07	1
11031	OCDF	39001-02-0	36.4	B	0.0407	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	102	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	85	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-060-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA6-SS-0.0-0.5

LLI Sample # SW 6345466
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:38

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1219 SDG#: DX112-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-060-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA6-SS-0.0-0.5

LLI Sample # SW 6345466
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:38

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1219 SDG#: DX112-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11207001	07/30/2011 05:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11207001	07/26/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-063-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA6-SS-0.0-0.5

LLI Sample # SW 6345467
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 11:16

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1220 SDG#: DX112-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-063-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA6-SS-0.0-0.5

LLI Sample # SW 6345467
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 11:16

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1220 SDG#: DX112-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	5.19	0.191	1.03	1
11031	12378-PeCDD	40321-76-4	18.2	0.336	5.14	1
11031	123478-HxCDD	39227-28-6	41.4	0.278	5.14	1
11031	123678-HxCDD	57653-85-7	137 B	0.279	5.14	1
11031	123789-HxCDD	19408-74-3	82.1 B	0.274	5.14	1
11031	1234678-HpCDD	35822-46-9	3,620 EB	0.407	5.14	1
11031	OCDD	3268-87-9	48,000 EB	0.447	10.3	1
11031	2378-TCDF	51207-31-9	4.08 C	0.287	1.03	1
11031	12378-PeCDF	57117-41-6	5.28 B	0.137	5.14	1
11031	23478-PeCDF	57117-31-4	7.93 B	0.122	5.14	1
11031	123478-HxCDF	70648-26-9	22.1 B	0.217	5.14	1
11031	123678-HxCDF	57117-44-9	22.2 B	0.204	5.14	1
11031	123789-HxCDF	72918-21-9	3.28 J	0.215	5.14	1
11031	234678-HxCDF	60851-34-5	32.7 B	0.209	5.14	1
11031	1234678-HpCDF	67562-39-4	460 B	0.133	5.14	1
11031	1234789-HpCDF	55673-89-7	43.7 B	0.196	5.14	1
11031	OCDF	39001-02-0	1,020 B	0.0815	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	102	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	68	26 - 138

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-063-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA6-SS-0.0-0.5

LLI Sample # SW 6345467
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 11:16

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1220 SDG#: DX112-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Labeled Compounds		**%Rec**	**Windows**			
13C12-OCDF		79	17 - 157			

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present
S Saturation of detection signal

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-063-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA6-SS-0.0-0.5

LLI Sample # SW 6345467
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 11:16

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1220 SDG#: DX112-20

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11207001	07/30/2011 09:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11207001	07/26/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-064-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA6-SS-0.0-0.5

LLI Sample # SW 6345468
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:29

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1221 SDG#: DX112-21*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-064-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA6-SS-0.0-0.5

LLI Sample # SW 6345468
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:29

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1221 SDG#: DX112-21*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.268	J	0.0336	1.02	1
11031	12378-PeCDD	40321-76-4	1.35	J	0.0738	5.11	1
11031	123478-HxCDD	39227-28-6	2.99	J	0.0752	5.11	1
11031	123678-HxCDD	57653-85-7	18.4	B	0.0742	5.11	1
11031	123789-HxCDD	19408-74-3	6.18	B	0.0715	5.11	1
11031	1234678-HpCDD	35822-46-9	421	B	0.154	5.11	1
11031	OCDD	3268-87-9	3,690	B	0.118	10.2	1
11031	2378-TCDF	51207-31-9	0.413	J	0.0805	1.02	1
11031	12378-PeCDF	57117-41-6	0.891	JB	0.0415	5.11	1
11031	23478-PeCDF	57117-31-4	0.818	JB	0.0429	5.11	1
11031	123478-HxCDF	70648-26-9	2.41	JB	0.0591	5.11	1
11031	123678-HxCDF	57117-44-9	1.87	JB	0.0540	5.11	1
11031	123789-HxCDF	72918-21-9	0.415	J	0.0666	5.11	1
11031	234678-HxCDF	60851-34-5	3.14	JB	0.0556	5.11	1
11031	1234678-HpCDF	67562-39-4	47.8	B	0.0650	5.11	1
11031	1234789-HpCDF	55673-89-7	4.83	JB	0.103	5.11	1
11031	OCDF	39001-02-0	102	B	0.0648	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	94	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	71	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-064-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA6-SS-0.0-0.5

LLI Sample # SW 6345468
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:29

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1221 SDG#: DX112-21*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-064-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA6-SS-0.0-0.5

LLI Sample # SW 6345468
LLI Group # 1256495
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:29

Submitted: 07/15/2011 09:10
Reported: 08/15/2011 13:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1221 SDG#: DX112-21*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11207001	07/30/2011 10:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11207001	07/26/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401A	08/02/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256495
Reported: 08/15/11 at 01:08 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11199162401B	Sample number(s): 6345460-6345461								
Moisture Content by 160.3					100		80-120		
Batch number: 11214162401A	Sample number(s): 6345457-6345459,6345462-6345468								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11207001	Sample number(s): 6345457-6345468								
2378-TCDD	0.0511 U	0.0511	1.00	ng/kg	91		67-158		
12378-PeCDD	0.0399 U	0.0399	5.00	ng/kg	92		70-142		
123478-HxCDD	0.0233 U	0.0233	5.00	ng/kg	91		70-164		
123678-HxCDD	0.0231 J	0.0221	5.00	ng/kg	88		76-134		
123789-HxCDD	0.0584 J	0.0215	5.00	ng/kg	89		64-162		
1234678-HpCDD	0.365 J	0.0356	5.00	ng/kg	89		70-140		
OCDD	0.801 J	0.0350	10.0	ng/kg	86		78-144		
2378-TCDF	0.0441 U	0.0441	1.00	ng/kg	93		75-158		
2378-TCDF-Conf	0.0286 U	0.0286	1.00	ng/kg	93		75-158		
12378-PeCDF	0.0259 J	0.0209	5.00	ng/kg	87		80-134		
23478-PeCDF	0.0391 J	0.0196	5.00	ng/kg	87		68-160		
123478-HxCDF	0.0221 J	0.0166	5.00	ng/kg	85		72-134		
123678-HxCDF	0.0227 J	0.0143	5.00	ng/kg	87		84-130		
123789-HxCDF	0.0197 U	0.0197	5.00	ng/kg	84		78-130		
234678-HxCDF	0.0195 J	0.0153	5.00	ng/kg	85		70-156		
1234678-HpCDF	0.0647 J	0.0104	5.00	ng/kg	84		82-122		
1234789-HpCDF	0.0217 J	0.0183	5.00	ng/kg	87		78-138		
OCDF	0.114 J	0.0398	10.0	ng/kg	85		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11199162401B	Sample number(s): 6345460-6345461					BKG: P345448			
Moisture Content by 160.3						7.0	7.1	2	20
Batch number: 11214162401A	Sample number(s): 6345457-6345459,6345462-6345468					BKG: P345435			
Moisture Content by 160.3						0.50 U	0.50 U	0 (1)	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256495
Reported: 08/15/11 at 01:08 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11207001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6345457	75	72	65	72	70	75
6345458	73	70	64	71	66	71
6345459	69	70	66	71	67	69
6345460	78	80	71	75	71	76
6345461	75	73	65	72	67	69
6345462	70	70	67	68	64	59
6345463	69	67	60	66	62	65
6345464	70	68	60	67	62	61
6345465	83	84	72	82	74	72
6345466	83	80	72	76	73	79
6345467	73	71	65	69	66	74
6345468	77	74	66	72	67	70
Blank	66	62	58	67	61	56
OPR	58	59	55	61	58	56
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6345457	88	68	72	77	78	82
6345458	87	65	67	76	77	78
6345459	84	69	72	74	75	77
6345460	95	72	78	85	80	83
6345461	88	66	72	79	76	76
6345462	75	67	69	75	71	71
6345463	84	61	66	74	73	74
6345464	82	60	70	76	74	72
6345465	104	71	77	90	86	87
6345466	88	76	85	84	78	83
6345467	81	68	79	73	72	78
6345468	87	66	71	80	76	77
Blank	92	66	73	72	76	80
OPR	85	64	71	66	71	74
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6345457	81	86	93	71	78	
6345458	78	83	89	68	77	
6345459	75	83	88	67	73	
6345460	82	90	99	74	86	
6345461	76	83	91	72	81	
6345462	70	76	85	68	74	68
6345463	73	79	87	64	74	
6345464	72	79	90	64	75	
6345465	85	94	108	79	92	
6345466	81	89	102	80	84	

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256495
Reported: 08/15/11 at 01:08 PM

Surrogate Quality Control

6345467	75	85	102	71	73	
6345468	77	83	94	73	82	
Blank	78	93	104	57	66	59
OPR	72	88	100	51	62	51
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp#1256495 Sample#6345457-68

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures: J Zeitler

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-047-SA6-SS-0.0-0.5	07.14.11	1354	SOIL	NONE	1-SS Sleeve			X	X																	
SL-047-SA6-SS-0.0-0.5	07.14.11	1354	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-048-SA6-SS-0.0-0.5	07.14.11	1546	SOIL	NONE	1-SS Sleeve			X	X																	
SL-048-SA6-SS-0.0-0.5	07.14.11	1546	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-049-SA6-SS-0.0-0.5	07.14.11	1426	SOIL	NONE	1-SS Sleeve			X	X																	
SL-049-SA6-SS-0.0-0.5	07.14.11	1426	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-050-SA6-SS-0.0-0.5	07.14.11	0827	SOIL	NONE	1-SS Sleeve			X	X																	
SL-050-SA6-SS-0.0-0.5	07.14.11	0827	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-051-SA6-SS-0.0-0.5	07.14.11	0807	SOIL	NONE	1-SS Sleeve			X	X																	
SL-051-SA6-SS-0.0-0.5	07.14.11	0807	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-052-SA6-SS-0.0-0.5	07.14.11	1017	SOIL	NONE	1-SS Sleeve			X	X																	
SL-052-SA6-SS-0.0-0.5	07.14.11	1017	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-053-SA6-SS-0.0-0.5	07.14.11	0952	SOIL	NONE	1-SS Sleeve			X	X																	
SL-053-SA6-SS-0.0-0.5	07.14.11	0952	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-054-SA6-SS-0.0-0.5	07.14.11	0920	SOIL	NONE	1-SS Sleeve			X	X																	
SL-054-SA6-SS-0.0-0.5	07.14.11	0920	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-055-SA6-SS-0.0-0.5	07.14.11	0853	SOIL	NONE	1-SS Sleeve			X	X																	
SL-055-SA6-SS-0.0-0.5	07.14.11	0853	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-060-SA6-SS-0.0-0.5	07.14.11	1038	SOIL	NONE	1-SS Sleeve			X	X																	
SL-060-SA6-SS-0.0-0.5	07.14.11	1038	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-064-SA6-SS-0.0-0.5	07.14.11	1116	SOIL	NONE	1-SS Sleeve			X	X																	
SL-064-SA6-SS-0.0-0.5	07.14.11	1116	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-064-SA6-SS-0.0-0.5	07.14.11	1329	SOIL	NONE	1-SS Sleeve			X	X																	
SL-064-SA6-SS-0.0-0.5	07.14.11	1329	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	07/14/2011 / 1600	7/15/11 910	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3340 5771, 5782,5793	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/15/2011
Group Number: 1256496
SDG: DX113
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-071-SA6-SB-4.0-5.0 Soil	6345469
SL-071-SA6-SB-6.0-7.0 Soil	6345470
SL-074-SA6-SB-4.0-5.0 Soil	6345471
SL-074-SA6-SB-4.0-5.0MS Soil	6345472
SL-074-SA6-SB-4.0-5.0MSD Soil	6345473
SL-074-SA6-SB-9.0-10.0 Soil	6345474
SL-088-SA6-SB-4.0-5.0 Soil	6345475
SL-088-SA6-SB-9.0-10.0 Soil	6345476
DUP02-SA6-QC-071411 Soil	6345477

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-071-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA6-SB-4.0-5.0

LLI Sample # SW 6345469
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:35

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1301 SDG#: DX113-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-071-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA6-SB-4.0-5.0

LLI Sample # SW 6345469
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:35

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1301 SDG#: DX113-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0595	JQ	0.0137	1.06	1
11031	12378-PeCDD	40321-76-4	0.673	JB	0.0303	5.29	1
11031	123478-HxCDD	39227-28-6	0.589	JBQ	0.0772	5.29	1
11031	123678-HxCDD	57653-85-7	2.55	JB	0.0803	5.29	1
11031	123789-HxCDD	19408-74-3	1.04	JB	0.0743	5.29	1
11031	1234678-HpCDD	35822-46-9	118	B	0.138	5.29	1
11031	OCDD	3268-87-9	1,680	B	0.112	10.6	1
11031	2378-TCDF	51207-31-9	0.813	J	0.101	1.06	1
11031	12378-PeCDF	57117-41-6	0.173	JB	0.0423	5.29	1
11031	23478-PeCDF	57117-31-4	0.793	JB	0.0400	5.29	1
11031	123478-HxCDF	70648-26-9	0.845	JB	0.0529	5.29	1
11031	123678-HxCDF	57117-44-9	0.396	JB	0.0481	5.29	1
11031	123789-HxCDF	72918-21-9	0.204	JB	0.0499	5.29	1
11031	234678-HxCDF	60851-34-5	0.686	JB	0.0443	5.29	1
11031	1234678-HpCDF	67562-39-4	12.7	B	0.0516	5.29	1
11031	1234789-HpCDF	55673-89-7	1.12	JB	0.0674	5.29	1
11031	OCDF	39001-02-0	35.0	B	0.0505	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	65	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-071-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA6-SB-4.0-5.0

LLI Sample # SW 6345469
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:35

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1301 SDG#: DX113-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-071-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA6-SB-4.0-5.0

LLI Sample # SW 6345469
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:35

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1301 SDG#: DX113-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11208001	07/29/2011 14:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11208001	07/27/2011 11:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11199162401B	07/18/2011 20:06	Scott W Freisher	1

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Analysis Report

Sample Description: SL-071-SA6-SB-6.0-7.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA6-SB-6.0-7.0

LLI Sample # SW 6345470
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:45

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1302 SDG#: DX113-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-071-SA6-SB-6.0-7.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA6-SB-6.0-7.0

LLI Sample # SW 6345470
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:45

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1302 SDG#: DX113-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.679 J	0.0344	1.07	1
11031	12378-PeCDD	40321-76-4	6.91 B	0.0975	5.35	1
11031	123478-HxCDD	39227-28-6	4.38 JB	0.155	5.35	1
11031	123678-HxCDD	57653-85-7	19.5 B	0.158	5.35	1
11031	123789-HxCDD	19408-74-3	7.49 B	0.159	5.35	1
11031	1234678-HpCDD	35822-46-9	917 B	0.336	5.35	1
11031	OCDD	3268-87-9	13,100 EB	0.288	10.7	1
11650	2378-TCDF-Conf	51207-31-9	1.00 JC	0.0475	1.07	1
11031	12378-PeCDF	57117-41-6	0.561 JB	0.0624	5.35	1
11031	23478-PeCDF	57117-31-4	1.28 JB	0.0591	5.35	1
11031	123478-HxCDF	70648-26-9	3.57 JB	0.118	5.35	1
11031	123678-HxCDF	57117-44-9	2.11 JB	0.109	5.35	1
11031	123789-HxCDF	72918-21-9	0.988 JB	0.101	5.35	1
11031	234678-HxCDF	60851-34-5	3.81 JB	0.0917	5.35	1
11031	1234678-HpCDF	67562-39-4	73.3 B	0.109	5.35	1
11031	1234789-HpCDF	55673-89-7	7.08 B	0.125	5.35	1
11031	OCDF	39001-02-0	227 B	0.0895	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-2378-TCDF-Conf	74	24 - 169
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	69	17 - 157
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	70	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: SL-071-SA6-SB-6.0-7.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA6-SB-6.0-7.0

LLI Sample # SW 6345470
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:45

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1302 SDG#: DX113-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	62	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-071-SA6-SB-6.0-7.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA6-SB-6.0-7.0

LLI Sample # SW 6345470
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:45

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1302 SDG#: DX113-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11208001	07/29/2011 18:11	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11208001	08/05/2011 11:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11208001	07/27/2011 11:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11199162401B	07/18/2011 20:06	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-074-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345471
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1303 SDG#: DX113-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-074-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345471
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1303 SDG#: DX113-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.299	JQ	0.0281	1.03	1
11031	12378-PeCDD	40321-76-4	4.06	JB	0.0918	5.13	1
11031	123478-HxCDD	39227-28-6	2.19	JB	0.143	5.13	1
11031	123678-HxCDD	57653-85-7	9.65	B	0.149	5.13	1
11031	123789-HxCDD	19408-74-3	3.80	JB	0.145	5.13	1
11031	1234678-HpCDD	35822-46-9	423	B	0.314	5.13	1
11031	OCDD	3268-87-9	7,280	EB	0.232	10.3	1
11650	2378-TCDF-Conf	51207-31-9	0.905	JC	0.0558	1.03	1
11031	12378-PeCDF	57117-41-6	0.380	JBQ	0.0627	5.13	1
11031	23478-PeCDF	57117-31-4	1.31	JB	0.0582	5.13	1
11031	123478-HxCDF	70648-26-9	2.66	JB	0.109	5.13	1
11031	123678-HxCDF	57117-44-9	1.46	JB	0.107	5.13	1
11031	123789-HxCDF	72918-21-9	0.662	JB	0.101	5.13	1
11031	234678-HxCDF	60851-34-5	2.53	JB	0.0925	5.13	1
11031	1234678-HpCDF	67562-39-4	43.9	B	0.0915	5.13	1
11031	1234789-HpCDF	55673-89-7	4.56	JB	0.110	5.13	1
11031	OCDF	39001-02-0	132	B	0.0653	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-2378-TCDF-Conf	67	24 - 169
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	63	17 - 157
13C12-12378-PeCDF	60	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	57	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-074-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345471
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1303 SDG#: DX113-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-074-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345471
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1303 SDG#: DX113-03BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11208001	07/29/2011 19:08	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11208001	08/05/2011 12:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11208001	07/27/2011 11:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11199162401B	07/18/2011 20:06	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-074-SA6-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345472
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1303 SDG#: DX113-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-074-SA6-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345472
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X1303 SDG#: DX113-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	18.5		0.0363	1.07	1
11031	12378-PeCDD	40321-76-4	99.3	B	0.0483	5.33	1
11031	123478-HxCDD	39227-28-6	99.9	B	0.116	5.33	1
11031	123678-HxCDD	57653-85-7	103	B	0.119	5.33	1
11031	123789-HxCDD	19408-74-3	99.1	B	0.116	5.33	1
11031	1234678-HpCDD	35822-46-9	215	B	0.182	5.33	1
11031	OCDD	3268-87-9	2,370	B	0.144	10.7	1
11031	2378-TCDF	51207-31-9	20.1		0.124	1.07	1
11031	12378-PeCDF	57117-41-6	100	B	0.0523	5.33	1
11031	23478-PeCDF	57117-31-4	98.7	B	0.0524	5.33	1
11031	123478-HxCDF	70648-26-9	104	B	0.0809	5.33	1
11031	123678-HxCDF	57117-44-9	102	B	0.0744	5.33	1
11031	123789-HxCDF	72918-21-9	101	B	0.0767	5.33	1
11031	234678-HxCDF	60851-34-5	101	B	0.0647	5.33	1
11031	1234678-HpCDF	67562-39-4	112	B	0.0846	5.33	1
11031	1234789-HpCDF	55673-89-7	102	B	0.105	5.33	1
11031	OCDF	39001-02-0	241	B	0.0609	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-074-SA6-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345472
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1303 SDG#: DX113-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-074-SA6-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345472
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1303 SDG#: DX113-03MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11208001	07/29/2011 20:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11208001	07/27/2011 11:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11199162401B	07/18/2011 20:06	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-074-SA6-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345473
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1303 SDG#: DX113-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-074-SA6-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345473
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1303 SDG#: DX113-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	18.2		0.0376	1.06	1
11031	12378-PeCDD	40321-76-4	95.7	B	0.0630	5.29	1
11031	123478-HxCDD	39227-28-6	99.1	B	0.144	5.29	1
11031	123678-HxCDD	57653-85-7	102	B	0.157	5.29	1
11031	123789-HxCDD	19408-74-3	97.9	B	0.145	5.29	1
11031	1234678-HpCDD	35822-46-9	291	B	0.229	5.29	1
11031	OCDD	3268-87-9	3,690	B	0.167	10.6	1
11031	2378-TCDF	51207-31-9	19.3		0.0986	1.06	1
11031	12378-PeCDF	57117-41-6	96.4	B	0.0505	5.29	1
11031	23478-PeCDF	57117-31-4	95.1	B	0.0517	5.29	1
11031	123478-HxCDF	70648-26-9	99.8	B	0.135	5.29	1
11031	123678-HxCDF	57117-44-9	98.2	B	0.128	5.29	1
11031	123789-HxCDF	72918-21-9	98.2	B	0.104	5.29	1
11031	234678-HxCDF	60851-34-5	101	B	0.0895	5.29	1
11031	1234678-HpCDF	67562-39-4	117	B	0.110	5.29	1
11031	1234789-HpCDF	55673-89-7	99.2	B	0.120	5.29	1
11031	OCDF	39001-02-0	257	B	0.0704	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	54	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	60	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-074-SA6-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345473
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1303 SDG#: DX113-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-074-SA6-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-4.0-5.0

LLI Sample # SW 6345473
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:15

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1303 SDG#: DX113-03MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11208001	07/29/2011 21:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11208001	07/27/2011 11:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11199162401B	07/18/2011 20:06	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-074-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-9.0-10.0

LLI Sample # SW 6345474
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:35

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1304 SDG#: DX113-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-074-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-9.0-10.0

LLI Sample # SW 6345474
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:35

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1304 SDG#: DX113-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.132	J	0.0209	1.08	1
11031	12378-PeCDD	40321-76-4	1.62	JB	0.0578	5.42	1
11031	123478-HxCDD	39227-28-6	1.59	JB	0.102	5.42	1
11031	123678-HxCDD	57653-85-7	4.57	JB	0.107	5.42	1
11031	123789-HxCDD	19408-74-3	1.91	JB	0.102	5.42	1
11031	1234678-HpCDD	35822-46-9	187	B	0.190	5.42	1
11031	OCDD	3268-87-9	2,540	B	0.143	10.8	1
11650	2378-TCDF-Conf	51207-31-9	2.12	C	0.0474	1.08	1
11031	12378-PeCDF	57117-41-6	0.880	JB	0.0441	5.42	1
11031	23478-PeCDF	57117-31-4	1.25	JB	0.0404	5.42	1
11031	123478-HxCDF	70648-26-9	1.72	JB	0.0610	5.42	1
11031	123678-HxCDF	57117-44-9	1.02	JB	0.0611	5.42	1
11031	123789-HxCDF	72918-21-9	0.0597	U	0.0597	5.42	1
11031	234678-HxCDF	60851-34-5	1.47	JB	0.0537	5.42	1
11031	1234678-HpCDF	67562-39-4	17.2	B	0.0667	5.42	1
11031	1234789-HpCDF	55673-89-7	2.11	JB	0.0766	5.42	1
11031	OCDF	39001-02-0	46.0	B	0.0499	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-2378-TCDF-Conf	75	24 - 169
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	68	17 - 157
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	63	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-074-SA6-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-9.0-10.0

LLI Sample # SW 6345474
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:35

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1304 SDG#: DX113-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-074-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA6-SB-9.0-10.0

LLI Sample # SW 6345474
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:35

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1304 SDG#: DX113-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11208001	07/29/2011 21:58	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11208001	08/05/2011 13:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11208001	07/27/2011 11:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11199162401B	07/18/2011 20:06	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-088-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA6-SB-4.0-5.0

LLI Sample # SW 6345475
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:45

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1305 SDG#: DX113-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-088-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA6-SB-4.0-5.0

LLI Sample # SW 6345475
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:45

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1305 SDG#: DX113-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0880	JQ	0.0214	1.07	1
11031	12378-PeCDD	40321-76-4	0.591	JB	0.0278	5.36	1
11031	123478-HxCDD	39227-28-6	0.331	JB	0.0687	5.36	1
11031	123678-HxCDD	57653-85-7	1.51	JB	0.0734	5.36	1
11031	123789-HxCDD	19408-74-3	0.743	JB	0.0702	5.36	1
11031	1234678-HpCDD	35822-46-9	59.6	B	0.145	5.36	1
11031	OCDD	3268-87-9	919	B	0.0976	10.7	1
11031	2378-TCDF	51207-31-9	0.426	J	0.0783	1.07	1
11031	12378-PeCDF	57117-41-6	0.148	JBQ	0.0379	5.36	1
11031	23478-PeCDF	57117-31-4	0.540	JB	0.0373	5.36	1
11031	123478-HxCDF	70648-26-9	0.924	JB	0.0748	5.36	1
11031	123678-HxCDF	57117-44-9	0.365	JB	0.0716	5.36	1
11031	123789-HxCDF	72918-21-9	0.212	JB	0.0524	5.36	1
11031	234678-HxCDF	60851-34-5	0.439	JB	0.0445	5.36	1
11031	1234678-HpCDF	67562-39-4	6.48	B	0.0729	5.36	1
11031	1234789-HpCDF	55673-89-7	0.697	JB	0.0807	5.36	1
11031	OCDF	39001-02-0	18.2	B	0.0705	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	43	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	56	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	52	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-088-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA6-SB-4.0-5.0

LLI Sample # SW 6345475
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:45

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1305 SDG#: DX113-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-088-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA6-SB-4.0-5.0

LLI Sample # SW 6345475
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:45

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1305 SDG#: DX113-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11208001	07/29/2011 22:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11208001	07/27/2011 11:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11199162401B	07/18/2011 20:06	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-088-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA6-SB-9.0-10.0

LLI Sample # SW 6345476
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:55

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1306 SDG#: DX113-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-088-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA6-SB-9.0-10.0

LLI Sample # SW 6345476
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:55

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1306 SDG#: DX113-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0343 JQ	0.0159	1.03	1
11031	12378-PeCDD	40321-76-4	0.0822 JBQ	0.0168	5.17	1
11031	123478-HxCDD	39227-28-6	0.0457 JBQ	0.0149	5.17	1
11031	123678-HxCDD	57653-85-7	0.0725 JBQ	0.0153	5.17	1
11031	123789-HxCDD	19408-74-3	0.0547 JBQ	0.0146	5.17	1
11031	1234678-HpCDD	35822-46-9	0.471 JB	0.0284	5.17	1
11031	OCDD	3268-87-9	1.94 JB	0.0335	10.3	1
11031	2378-TCDF	51207-31-9	0.0206 JQ	0.0134	1.03	1
11031	12378-PeCDF	57117-41-6	0.0766 JB	0.0104	5.17	1
11031	23478-PeCDF	57117-31-4	0.162 JB	0.0105	5.17	1
11031	123478-HxCDF	70648-26-9	0.0798 JB	0.0215	5.17	1
11031	123678-HxCDF	57117-44-9	0.0655 JB	0.0181	5.17	1
11031	123789-HxCDF	72918-21-9	0.0762 JB	0.0226	5.17	1
11031	234678-HxCDF	60851-34-5	0.123 JBQ	0.0173	5.17	1
11031	1234678-HpCDF	67562-39-4	0.0987 JBQ	0.00903	5.17	1
11031	1234789-HpCDF	55673-89-7	0.0569 JB	0.0168	5.17	1
11031	OCDF	39001-02-0	0.181 JB	0.0366	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	54	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-088-SA6-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA6-SB-9.0-10.0

LLI Sample # SW 6345476
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:55

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1306 SDG#: DX113-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-088-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA6-SB-9.0-10.0

LLI Sample # SW 6345476
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:55

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1306 SDG#: DX113-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11208001	07/29/2011 23:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11208001	07/27/2011 11:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11199162401B	07/18/2011 20:06	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP02-SA6-QC-071411 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA6-QC-071411

LLI Sample # SW 6345477
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:25

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1307 SDG#: DX113-07FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP02-SA6-QC-071411 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA6-QC-071411

LLI Sample # SW 6345477
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:25

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1307 SDG#: DX113-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.341	J	0.0197	1.05	1
11031	12378-PeCDD	40321-76-4	2.93	JB	0.0614	5.25	1
11031	123478-HxCDD	39227-28-6	3.90	JB	0.114	5.25	1
11031	123678-HxCDD	57653-85-7	7.58	B	0.116	5.25	1
11031	123789-HxCDD	19408-74-3	2.93	JB	0.115	5.25	1
11031	1234678-HpCDD	35822-46-9	312	B	0.251	5.25	1
11031	OCDD	3268-87-9	6,150	EB	0.174	10.5	1
11031	2378-TCDF	51207-31-9	0.715	J	0.112	1.05	1
11031	12378-PeCDF	57117-41-6	0.407	JB	0.0483	5.25	1
11031	23478-PeCDF	57117-31-4	0.942	JB	0.0461	5.25	1
11031	123478-HxCDF	70648-26-9	1.32	JB	0.0747	5.25	1
11031	123678-HxCDF	57117-44-9	0.948	JB	0.0701	5.25	1
11031	123789-HxCDF	72918-21-9	0.283	JBQ	0.0725	5.25	1
11031	234678-HxCDF	60851-34-5	1.44	JB	0.0661	5.25	1
11031	1234678-HpCDF	67562-39-4	32.2	B	0.0678	5.25	1
11031	1234789-HpCDF	55673-89-7	3.12	JB	0.0861	5.25	1
11031	OCDF	39001-02-0	98.8	B	0.0609	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP02-SA6-QC-071411 Soil**
SSFL Area IV Collocated Soil Sampling
DUP02-SA6-QC-071411

LLI Sample # SW 6345477
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:25

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1307 SDG#: DX113-07FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP02-SA6-QC-071411 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA6-QC-071411

LLI Sample # SW 6345477
LLI Group # 1256496
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:25

Submitted: 07/15/2011 09:10
Reported: 08/12/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1307 SDG#: DX113-07FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11208001	07/30/2011 00:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11208001	07/27/2011 11:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11199162401B	07/18/2011 20:06	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256496
Reported: 08/12/11 at 12:13 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11199162401B	Sample number(s): 6345469-6345477								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11208001	Sample number(s): 6345469-6345477								
2378-TCDD	0.0142 U	0.0142	1.00	ng/kg	85		67-158		
12378-PeCDD	0.0291 J	0.0148	5.00	ng/kg	91		70-142		
123478-HxCDD	0.0394 J	0.0170	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0632 J	0.0176	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0739 J	0.0174	5.00	ng/kg	94		64-162		
1234678-HpCDD	0.905 J	0.0292	5.00	ng/kg	93		70-140		
OCDD	4.79 J	0.0221	10.0	ng/kg	95		78-144		
2378-TCDF	0.0119 U	0.0119	1.00	ng/kg	94		75-158		
2378-TCDF-Conf	0.0552 J	0.0223	1.00	ng/kg	94		75-158		
12378-PeCDF	0.0313 J	0.00810	5.00	ng/kg	91		80-134		
23478-PeCDF	0.0505 J	0.00860	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0405 J	0.0109	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0381 J	0.00930	5.00	ng/kg	95		84-130		
123789-HxCDF	0.0439 J	0.0100	5.00	ng/kg	94		78-130		
234678-HxCDF	0.0445 J	0.00780	5.00	ng/kg	95		70-156		
1234678-HpCDF	0.0836 J	0.00700	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.0469 J	0.0117	5.00	ng/kg	94		78-138		
OCDF	0.136 J	0.0253	10.0	ng/kg	96		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11199162401B	Sample number(s): 6345469-6345477 BKG: P345448								
Moisture Content by 160.3						7.0	7.1	2	20
Batch number: 11208001	Sample number(s): 6345469-6345477 UNSPK: 6345471								
2378-TCDD	85	85	67-158	1	25				
12378-PeCDD	89	87	70-142	4	25				
123478-HxCDD	92	92	70-164	1	25				
123678-HxCDD	87	87	76-134	1	25				
123789-HxCDD	89	89	64-162	1	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256496
Reported: 08/12/11 at 12:13 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1234678-HpCDD	-195*	-124 (2)	70-140	30*	25				
OCDD	-2301 (2)	-1694 (2)	78-144	44*	25				
2378-TCDF	87	84	75-158	4	25				
2378-TCDF-Conf	87	84	75-158	4	25				
12378-PeCDF	93	91	80-134	4	25				
23478-PeCDF	91	89	68-160	4	25				
123478-HxCDF	95	92	72-134	4	25				
123678-HxCDF	94	92	84-130	4	25				
123789-HxCDF	94	92	78-130	3	25				
234678-HxCDF	92	93	70-156	0	25				
1234678-HpCDF	64*	69*	82-122	4	25				
1234789-HpCDF	91	90	78-138	3	25				
OCDF	51*	59*	63-170	7	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11208001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6345469	79	70	64	67	75	77
6345470	71	63	54	60	70	74
6345471	66	60	55	56	65	70
6345472	75	68	63	67	73	75
6345473	75	68	51	54	72	75
6345474	73	66	66	64	71	76
6345475	77	71	42	43	71	69
6345476	78	70	61	72	75	68
6345477	80	72	69	72	78	82
Blank	66	59	47	55	64	59
MS	75	68	63	67	73	75
MSD	75	68	51	54	72	75
OPR	80	71	66	78	78	74
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6345469	74	71	65	77	80	79
6345470	64	68	62	69	72	73
6345471	61	63	57	64	69	68
6345472	71	68	61	73	78	74
6345473	61	67	60	74	77	73
6345474	68	70	63	71	76	73
6345475	56	62	52	78	78	76

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256496
Reported: 08/12/11 at 12:13 PM

Surrogate Quality Control

6345476	91	62	54	83	89	87
6345477	77	74	66	78	83	84
Blank	72	54	48	69	73	72
MS	71	68	61	73	78	74
MSD	61	67	60	74	77	73
OPR	97	67	58	84	91	89
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6345469	82	81	74	72	72	
6345470	75	74	69		63	74
6345471	70	70	63		60	67
6345472	77	76	70	68	69	
6345473	78	77	70	68	71	
6345474	76	75	68		65	75
6345475	81	78	68	67	73	
6345476	90	88	78	66	79	
6345477	85	83	77	72	73	
Blank	74	75	67	56	66	63
MS	77	76	70	68	69	68
MSD	78	77	70	68	71	68
OPR	90	90	78	69	79	69
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1256496 sample# 6345469-77

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-071-SA6-SB-4.5	07.14.11	1430	SOIL	NONE	5-Encores										X	X	X										
SL-071-SA6-SB-4.0-5.0	07.14.11	1435	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-071-SA6-SB-7.0	07.14.11	1440	SOIL	NONE	1-Encores												X										
SL-071-SA6-SB-6.0-7.0	07.14.11	1445	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-074-SA6-SB-4.5MS	07.14.11	0810	SOIL	NONE	15-Encores										X	X	X										MS/MSD
SL-074-SA6-SB-4.0-5.0MS	07.14.11	0815	SOIL	NONE	9-16 oz jars	X	X	X	X	X	X	X	X					X						X	X	X	MS/MSD
SL-074-SA6-SB-9.5	07.14.11	0830	SOIL	NONE	1-Encores												X										
SL-074-SA6-SB-9.0-10.0	07.14.11	0835	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-088-SA6-SB-4.5	07.14.11	1040	SOIL	NONE	5-Encores										X	X	X										
SL-088-SA6-SB-4.0-5.0	07.14.11	1045	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-088-SA6-SB-9.5	07.14.11	1050	SOIL	NONE	1-Encores												X										
SL-088-SA6-SB-9.0-10.0	07.14.11	1055	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
DUP02-SA6-QC-071411	07.14.11	0820	SOIL	NONE	5-Encores										X	X	X										
DUP02-SA6-QC-071411	07.14.11	0825	SOIL	NONE	3-16 oz. jars	X	X	X	X	X	X	X	X					X						X	X	X	
TB-071411	07.14.11	0800	WATER	NONE	4-40mL vials										X	X	X										

Relinquished by: (Signature) — Date/Time: 07/14/2011 / 1600

Received for Laboratory by: (Signature) — 7/15/11 910

Received by: (Signature) — Date/Time

Airbill No.(s): 8754 3340 5771, 5782,5793

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

September 02, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/18/2011
Group Number: 1256713
SDG: DE201
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-004-SA6-SS-0.0-0.5 Soil	6346960
SL-005-SA6-SS-0.0-0.5 Soil	6346961
SL-020-SA6-SS-0.0-0.5 Soil	6346962
SL-029-SA6-SS-0.0-0.5 Soil	6346963
SL-043-SA6-SS-0.0-0.5 Soil	6346964
SL-044-SA6-SS-0.0-0.5 Soil	6346965
SL-126-SA6-SS-0.0-0.5 Soil	6346966
SL-302-SA6-SS-0.0-0.5 Soil	6346967
SL-303-SA6-SS-0.0-0.5 Soil	6346968
SL-304-SA6-SS-0.0-0.5 Soil	6346969
SL-286-SA6-SS-0.0-0.5 Soil	6346970
SL-286-SA6-SS-0.0-0.5MS Soil	6346971
SL-286-SA6-SS-0.0-0.5MSD Soil	6346972
SL-286-SA6-SS-0.0-0.5DUP Soil	6346973
DUP03-SA6-QC-071511 Soil	6346974
SL-056-SA6-SS-0.0-0.5 Soil	6346975
SL-058-SA6-SS-0.0-0.5 Soil	6346976

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

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Analysis Report

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA6-SS-0.0-0.5

LLI Sample # SW 6346960
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 11:16

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0101 SDG#: DE201-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA6-SS-0.0-0.5

LLI Sample # SW 6346960
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 11:16

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0101 SDG#: DE201-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.68	U	0.68	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.94	J	0.68	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18	1
10138	Di-n-butylphthalate	84-74-2	11	J	6.1	18	1
10138	Chrysene	218-01-9	0.43	J	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	J	6.1	18	1
10138	Fluoranthene	206-44-0	0.68	U	0.68	1.7	1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7	1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18	1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7	1
10138	Pyrene	129-00-0	0.68	U	0.68	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1	1
10401	2,4-DB	94-82-6	0.64	J	0.63	1.7	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	260		77	250	1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250	1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17	1
10401	2,4,5-TP	93-72-1	0.085	J	0.076	0.17	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA6-SS-0.0-0.5

LLI Sample # SW 6346960
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 11:16

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0101 SDG#: DE201-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17	1
01363	Chlordane	57-74-9	2.2	J	0.81	3.4	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34	1
01363	p,p-DDE	72-55-9	0.25	U	0.25	0.34	1
01363	p,p-DDT	50-29-3	8.8		0.33	1.7	5
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17	1
01363	Dieldrin	60-57-1	3.1		0.33	1.7	5
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.29	U	0.29	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34	1
01363	Endrin	72-20-8	0.067	U	0.067	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.43	U	0.43	0.43	1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34	1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.11	U	0.11	0.34	1
01363	Toxaphene	8001-35-2	45	U	45	45	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. The samples were injected after maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The LCS data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that heptachlor epoxide was detected in the reextract at .17 ug/kg.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17	5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17	5
10225	Aroclor 5460	11126-42-4	5.1	U	5.1	17	5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.6	5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6	5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6	5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6	5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6	5
10225	PCB-1254	11097-69-1	1.7	U	1.7	8.6	5
10225	PCB-1260	11096-82-5	56		2.0	8.6	5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6	5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6	5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,500		5.89	19.5	1
07914	Boron	7440-42-8	0.545	J	0.351	4.87	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA6-SS-0.0-0.5

LLI Sample # SW 6346960
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 11:16

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0101 SDG#: DE201-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	3,030		2.44	19.5	1
01654	Iron	7439-89-6	20,000		2.54	19.5	1
01656	Lithium	7439-93-2	22.2		0.60	1.9	1
01657	Magnesium	7439-95-4	3,750		0.429	9.74	1
06958	Manganese	7439-96-5	206		0.0351	0.487	1
10145	Phosphorus	7723-14-0	237		0.341	9.74	1
01662	Potassium	7440-09-7	2,200		11.0	48.7	1
01667	Sodium	7440-23-5	99.9		5.80	97.4	1
07968	Strontium	7440-24-6	19.6		0.0244	0.487	1
06969	Tin	7440-31-5	2.88	J	0.312	9.74	1
06970	Titanium	7440-32-6	991		0.0692	0.974	1
10146	Zirconium	7440-67-7	2.49	J	0.448	4.87	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.369		0.0728	0.197	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.80		0.0787	0.393	2
06126	Barium	7440-39-3	121		0.104	0.393	2
06127	Beryllium	7440-41-7	0.961		0.0157	0.0984	2
06128	Cadmium	7440-43-9	0.728		0.0433	0.0984	2
06131	Chromium	7440-47-3	23.3		0.118	0.393	2
06132	Cobalt	7440-48-4	6.86		0.0197	0.0984	2
06133	Copper	7440-50-8	12.8		0.0787	0.393	2
06135	Lead	7439-92-1	206		0.0251	0.492	5
06138	Molybdenum	7439-98-7	1.25		0.0492	0.0984	2
06139	Nickel	7440-02-0	14.4		0.0984	0.393	2
06141	Selenium	7782-49-2	0.137	J	0.0571	0.393	2
06142	Silver	7440-22-4	0.600		0.0140	0.0984	2
06145	Thallium	7440-28-0	0.345		0.0295	0.0984	2
06148	Vanadium	7440-62-2	45.4		0.0216	0.0984	2
06149	Zinc	7440-66-6	176		0.551	2.95	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0840	J	0.0071	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.80	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.95	J	0.20	1.0	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA6-SS-0.0-0.5

LLI Sample # SW 6346960
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 11:16

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0101 SDG#: DE201-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.35	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.3	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11206SLB026	08/10/2011 17:24	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11207SLE026	08/01/2011 11:24	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11207SLE026	07/27/2011 06:50	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11206SLB026	07/25/2011 19:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112060012A	07/27/2011 18:29	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/18/2011 01:25	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/19/2011 08:54	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060005A	07/27/2011 04:45	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112040007A	07/25/2011 11:05	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060005A	07/25/2011 14:45	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112060012A	07/25/2011 21:15	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112005708002	07/26/2011 03:54	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112005708002	07/26/2011 03:54	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112005708002	07/26/2011 03:54	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112005708002	07/26/2011 03:54	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112005708002	07/26/2011 03:54	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112005708002	07/26/2011 03:54	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112005708002	07/26/2011 03:54	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112005708002	07/26/2011 03:54	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112005708002	07/26/2011 03:54	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112005708002	07/26/2011 03:54	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112005708002	07/26/2011 03:54	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA6-SS-0.0-0.5

LLI Sample # SW 6346960
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 11:16

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0101 SDG#: DE201-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112005708002	07/26/2011 03:54	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112005708002	07/26/2011 03:54	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112005708002	07/26/2011 03:54	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112001026001A	07/25/2011 10:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112001026001A	07/25/2011 10:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112001026001D	07/25/2011 10:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112001026001A	07/25/2011 10:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112001026001A	07/25/2011 10:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112001026001A	07/25/2011 10:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112001026001A	07/25/2011 10:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112001026001A	07/25/2011 10:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112001026001A	07/25/2011 11:20	Choon Y Tian	5
06138	Molybdenum	SW-846 6020	1	112001026001C	07/25/2011 10:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112001026001A	07/25/2011 10:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112001026001B	07/25/2011 10:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112001026001A	07/25/2011 10:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112001026001A	07/25/2011 10:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112001026001A	07/25/2011 10:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112001026001A	07/25/2011 10:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112005711002	07/20/2011 06:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112005708002	07/19/2011 22:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112001026001	07/19/2011 22:13	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112011026002	07/20/2011 11:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112005711002	07/20/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208495201A	07/30/2011 18:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206495201B	07/27/2011 23:08	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243203A	07/29/2011 12:53	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11208495201A	07/27/2011 21:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206495201B	07/25/2011 21:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039402A	07/26/2011 20:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243203A	07/27/2011 21:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

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Analysis Report

Sample Description: SL-005-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA6-SS-0.0-0.5

LLI Sample # SW 6346961
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:50

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0102 SDG#: DE201-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	850	U	850	2,500	1
04688	Benzidine	92-87-5	5,900	U	5,900	17,000	1
04688	Benzo(a)pyrene	50-32-8	88	J	85	850	1
04688	Benzo(g,h,i)perylene	191-24-2	280	J	85	850	1
04688	Benzoic acid	65-85-0	850	U	850	2,500	1
04688	Benzyl alcohol	100-51-6	850	U	850	2,500	1
04688	4-Bromophenyl-phenylether	101-55-3	85	U	85	850	1
04688	Butylbenzylphthalate	85-68-7	85	U	85	850	1
04688	Carbazole	86-74-8	85	U	85	850	1
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	850	1
04688	4-Chloroaniline	106-47-8	340	U	340	850	1
04688	bis(2-Chloroethoxy)methane	111-91-1	85	U	85	850	1
04688	bis(2-Chloroethyl)ether	111-44-4	85	U	85	850	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	85	U	85	850	1
04688	2-Chloronaphthalene	91-58-7	85	U	85	850	1
04688	2-Chlorophenol	95-57-8	85	U	85	850	1
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	850	1
04688	Chrysene	218-01-9	170	J	85	850	1
04688	Dibenz(a,h)anthracene	53-70-3	110	J	85	850	1
04688	Dibenzofuran	132-64-9	85	U	85	850	1
04688	1,2-Dichlorobenzene	95-50-1	85	U	85	850	1
04688	1,3-Dichlorobenzene	541-73-1	85	U	85	850	1
04688	1,4-Dichlorobenzene	106-46-7	85	U	85	850	1
04688	3,3'-Dichlorobenzidine	91-94-1	510	U	510	1,700	1
04688	2,4-Dichlorophenol	120-83-2	85	U	85	850	1
04688	Diethylphthalate	84-66-2	85	U	85	850	1
04688	2,4-Dimethylphenol	105-67-9	170	U	170	850	1
04688	3,5-Dimethylphenol	108-68-9	170	U	170	850	1
04688	Dimethylphthalate	131-11-3	85	U	85	850	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	850	U	850	2,500	1
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,100	1
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	850	1
04688	2,6-Dinitrotoluene	606-20-2	85	U	85	850	1
04688	1,2-Diphenylhydrazine	122-66-7	85	U	85	850	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	85	U	85	1,700	1
04688	Hexachlorobenzene	118-74-1	85	U	85	850	1
04688	Hexachlorobutadiene	87-68-3	340	U	340	850	1
04688	Hexachlorocyclopentadiene	77-47-4	850	U	850	2,500	1
04688	Hexachloroethane	67-72-1	85	U	85	850	1
04688	Isophorone	78-59-1	85	U	85	850	1
04688	2-Methylphenol	95-48-7	170	U	170	850	1
04688	4-Methylphenol	106-44-5	170	U	170	850	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	85	U	85	850	1
04688	3-Nitroaniline	99-09-2	170	U	170	850	1
04688	4-Nitroaniline	100-01-6	340	U	340	850	1
04688	Nitrobenzene	98-95-3	85	U	85	850	1
04688	2-Nitrophenol	88-75-5	85	U	85	850	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA6-SS-0.0-0.5

LLI Sample # SW 6346961
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:50

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0102 SDG#: DE201-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	850	U	850	2,500	1
04688	N-Nitroso-di-n-propylamine	621-64-7	85	U	85	850	1
04688	N-Nitrosodiphenylamine	86-30-6	85	U	85	850	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	85	U	85	850	1
04688	Pentachlorophenol	87-86-5	850	U	850	2,500	1
04688	Phenol	108-95-2	85	U	85	850	1
04688	Tetralin	119-64-2	850	U	850	850	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	85	U	85	850	1
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	850	1
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	850	1
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	34	U	34	85	5
10138	Acenaphthylene	208-96-8	17	U	17	85	5
10138	Anthracene	120-12-7	17	U	17	85	5
10138	Benzo(a)anthracene	56-55-3	34	U	34	85	5
10138	Benzo(b)fluoranthene	205-99-2	34	U	34	85	5
10138	Benzo(k)fluoranthene	207-08-9	77	J	34	85	5
10138	Di-n-butylphthalate	84-74-2	2,100		300	910	5
10138	Fluoranthene	206-44-0	34	U	34	85	5
10138	Fluorene	86-73-7	34	U	34	85	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	34	U	34	85	5
10138	1-Methylnaphthalene	90-12-0	34	U	34	85	5
10138	2-Methylnaphthalene	91-57-6	34	U	34	85	5
10138	Naphthalene	91-20-3	34	U	34	85	5
10138	N-Nitrosodimethylamine	62-75-9	34	U	34	85	5
10138	Phenanthrene	85-01-8	34	U	34	85	5
10138	Pyrene	129-00-0	34	U	34	85	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	12	U	12	12	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	77	U	77	250	1
10401	MCPP (Mecoprop)	93-65-2	270	U	270	270	1
10401	2,4,5-T	93-76-5	0.26	U	0.26	0.26	1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does						

Sample Description: SL-005-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA6-SS-0.0-0.5

LLI Sample # SW 6346961
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:50

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0102 SDG#: DE201-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised for MCPP, 2,4,5-T, and 2,4-DB due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17	1
01363	Chlordane	57-74-9	6.8		0.81	3.4	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34	1
01363	p,p-DDE	72-55-9	4.8		0.33	1.7	5
01363	p,p-DDT	50-29-3	98		3.3	17	50
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17	1
01363	Dieldrin	60-57-1	8.4		0.33	1.7	5
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34	1
01363	Endrin	72-20-8	2.6	U	2.6	2.6	5
01363	Endrin Aldehyde	7421-93-4	5.6	U	5.6	5.6	5
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34	1
01363	Heptachlor	76-44-8	0.081	U	0.081	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.74	U	0.74	0.74	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34	1
01363	Toxaphene	8001-35-2	600	U	600	600	50
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. The samples were injected after maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that dieldrin was not detected in the reextract. Also, beta-BHC was detected in the reextract at .22 ug/kg and endosulfan II was detected at 2.6 ug/kg. Reporting limits were raised due to interference from the sample matrix. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	100	U	100	330	100
10225	Aroclor 5442	12642-23-8	100	U	100	330	100
10225	Aroclor 5460	11126-42-4	100	U	100	330	100
10225	PCB-1016	12674-11-2	33	U	33	170	100
10225	PCB-1221	11104-28-2	33	U	33	170	100
10225	PCB-1232	11141-16-5	33	U	33	170	100
10225	PCB-1242	53469-21-9	33	U	33	170	100
10225	PCB-1248	12672-29-6	33	U	33	170	100
10225	PCB-1254	11097-69-1	33	U	33	170	100
10225	PCB-1260	11096-82-5	260		40	170	100

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA6-SS-0.0-0.5

LLI Sample # SW 6346961
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Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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E0102 SDG#: DE201-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	33	U	33	170	100
10225	PCB-1268	11100-14-4	33	U	33	170	100
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,150		6.08	20.1	1
07914	Boron	7440-42-8	1.01	J	0.361	5.02	1
01650	Calcium	7440-70-2	2,620		2.51	20.1	1
01654	Iron	7439-89-6	21,900		2.62	20.1	1
01656	Lithium	7439-93-2	20.3		0.62	2.0	1
01657	Magnesium	7439-95-4	3,600		0.442	10.0	1
06958	Manganese	7439-96-5	231		0.0361	0.502	1
10145	Phosphorus	7723-14-0	435		0.351	10.0	1
01662	Potassium	7440-09-7	2,710		11.3	50.2	1
01667	Sodium	7440-23-5	68.3	J	5.97	100	1
07968	Strontium	7440-24-6	12.3		0.0251	0.502	1
06969	Tin	7440-31-5	5.50	J	0.321	10.0	1
06970	Titanium	7440-32-6	839		0.0713	1.00	1
10146	Zirconium	7440-67-7	0.882	J	0.462	5.02	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.268		0.0736	0.199	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.54		0.0795	0.398	2
06126	Barium	7440-39-3	105		0.105	0.398	2
06127	Beryllium	7440-41-7	0.601		0.0159	0.0994	2
06128	Cadmium	7440-43-9	0.974		0.0437	0.0994	2
06131	Chromium	7440-47-3	30.9		0.119	0.398	2
06132	Cobalt	7440-48-4	6.98		0.0199	0.0994	2
06133	Copper	7440-50-8	21.2		0.0795	0.398	2
06135	Lead	7439-92-1	66.7		0.0254	0.497	5
06138	Molybdenum	7439-98-7	1.14		0.0497	0.0994	2
06139	Nickel	7440-02-0	18.9		0.0994	0.398	2
06141	Selenium	7782-49-2	0.157	J	0.0577	0.398	2
06142	Silver	7440-22-4	0.309		0.0141	0.0994	2
06145	Thallium	7440-28-0	0.333		0.0298	0.0994	2
06148	Vanadium	7440-62-2	41.7		0.0219	0.0994	2
06149	Zinc	7440-66-6	226		1.39	7.46	5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0412	J	0.0070	0.0996	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	0.99	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA6-SS-0.0-0.5

LLI Sample # SW 6346961
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:50

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Suite 210
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E0102 SDG#: DE201-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.47	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11206SLB026	08/10/2011 17:48	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11207SLE026	08/01/2011 11:56	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11207SLE026	07/27/2011 06:50	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11206SLB026	07/25/2011 19:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112060012A	07/27/2011 18:56	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/18/2011 01:39	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/18/2011 01:54	Melissa McDermott	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/18/2011 02:08	Melissa McDermott	50
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112080012A	08/03/2011 02:33	Sarah M Snyder	100
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112040007A	07/25/2011 11:05	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	112080012A	07/27/2011 19:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112060012A	07/25/2011 21:15	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112005708002	07/26/2011 04:07	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112005708002	07/26/2011 04:07	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112005708002	07/26/2011 04:07	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112005708002	07/26/2011 04:07	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112005708002	07/26/2011 04:07	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112005708002	07/26/2011 04:07	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA6-SS-0.0-0.5

LLI Sample # SW 6346961
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E0102 SDG#: DE201-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	112005708002	07/26/2011 04:07	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112005708002	07/26/2011 04:07	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112005708002	07/26/2011 04:07	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112005708002	07/26/2011 04:07	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112005708002	07/26/2011 04:07	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112005708002	07/26/2011 04:07	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112005708002	07/26/2011 04:07	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112005708002	07/26/2011 04:07	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112001026001A	07/25/2011 10:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112001026001A	07/25/2011 10:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112001026001D	07/25/2011 10:30	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112001026001A	07/25/2011 10:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112001026001A	07/25/2011 10:30	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112001026001A	07/25/2011 10:30	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112001026001A	07/25/2011 10:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112001026001A	07/25/2011 10:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112001026001A	07/25/2011 11:27	Choon Y Tian	5
06138	Molybdenum	SW-846 6020	1	112001026001C	07/25/2011 10:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112001026001A	07/25/2011 10:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112001026001B	07/25/2011 10:30	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112001026001A	07/25/2011 10:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112001026001A	07/25/2011 10:30	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112001026001A	07/25/2011 10:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112001026001A	07/25/2011 11:27	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112005711002	07/20/2011 06:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112005708002	07/19/2011 22:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112001026001	07/19/2011 22:13	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112011026002	07/20/2011 11:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112005711002	07/20/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208495201A	07/30/2011 18:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206495201A	07/27/2011 16:59	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243203A	07/29/2011 13:01	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11208495201A	07/27/2011 21:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206495201A	07/25/2011 21:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039402A	07/26/2011 20:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243203A	07/27/2011 21:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-020-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA6-SS-0.0-0.5

LLI Sample # SW 6346962
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 12:57

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0103 SDG#: DE201-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(a)anthracene	56-55-3	51	J	17	170	1
04688	Benzo(a)pyrene	50-32-8	39	J	17	170	1
04688	Benzo(b)fluoranthene	205-99-2	85	J	17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	38	J	17	170	1
04688	Benzo(k)fluoranthene	207-08-9	33	J	17	170	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170	1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Chrysene	218-01-9	110	J	17	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	17	340	1
04688	Fluoranthene	206-44-0	98	J	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	29	J	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1

3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA6-SS-0.0-0.5

LLI Sample # SW 6346962
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 12:57

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0103 SDG#: DE201-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	17	U	17	170	1
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenanthrene	85-01-8	46	J	17	170	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Pyrene	129-00-0	88	J	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.6	5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.6	5
10138	Anthracene	120-12-7	5.7	J	1.7	8.6	5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.6	5
10138	Fluorene	86-73-7	3.4	U	3.4	8.6	5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.6	5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.6	5
10138	Naphthalene	91-20-3	3.5	J	3.4	8.6	5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.6	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	2.7	J	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.3	1
10401	2,4-DB	94-82-6	1.0	J	0.64	1.8	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	110	U	110	260	1
10401	MCPP (Mecoprop)	93-65-2	150	J	77	260	1
10401	2,4,5-T	93-76-5	0.15	J	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.44		0.077	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: SL-020-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA6-SS-0.0-0.5

LLI Sample # SW 6346962
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 12:57

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0103 SDG#: DE201-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
	MCPP was detected in the method blank at 150 ug/kg and in the sample at 150 ug/kg. The sample was reextracted outside the method hold time. The blank and the sample associated with the reextraction did not have a MCPP detection. The original data was reported.						
	Reporting limits were raised for MCPA due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.093	U	0.093	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	18	J	8.2	35	10
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35	1
01363	p,p-DDE	72-55-9	6.5		0.68	3.5	10
01363	p,p-DDT	50-29-3	120	U	120	120	50
01363	Delta BHC	319-86-8	0.22	U	0.22	0.22	1
01363	Dieldrin	60-57-1	3.5	U	3.5	3.5	10
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	8.7	U	8.7	8.7	10
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1
01363	Endrin	72-20-8	7.2	U	7.2	7.2	10
01363	Endrin Aldehyde	7421-93-4	7.3		0.68	3.5	10
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35	1
01363	Heptachlor	76-44-8	0.24	U	0.24	0.24	1
01363	Heptachlor Epoxide	1024-57-3	1.8	U	1.8	1.8	5
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.79	U	0.79	0.79	1
01363	Toxaphene	8001-35-2	2,000	U	2,000	2,000	50
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. The samples were injected after maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	The LCS data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.						
	Reporting limits were raised due to interference from the sample matrix.						
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	210	U	210	680	200
10225	Aroclor 5442	12642-23-8	210	U	210	680	200
10225	Aroclor 5460	11126-42-4	430	J	210	680	200
10225	PCB-1016	12674-11-2	68	U	68	350	200
10225	PCB-1221	11104-28-2	68	U	68	350	200
10225	PCB-1232	11141-16-5	68	U	68	350	200
10225	PCB-1242	53469-21-9	68	U	68	350	200
10225	PCB-1248	12672-29-6	68	U	68	350	200

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA6-SS-0.0-0.5

LLI Sample # SW 6346962
LLI Group # 1256713
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 12:57

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E0103 SDG#: DE201-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	68	U	68	350	200
10225	PCB-1260	11096-82-5	1,800		81	350	200
10225	PCB-1262	37324-23-5	68	U	68	350	200
10225	PCB-1268	11100-14-4	68	U	68	350	200
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,300		6.19	20.5	1
07914	Boron	7440-42-8	1.87	J	0.369	5.12	1
01650	Calcium	7440-70-2	3,070		2.56	20.5	1
01654	Iron	7439-89-6	17,200		2.67	20.5	1
01656	Lithium	7439-93-2	20.4		0.63	2.0	1
01657	Magnesium	7439-95-4	3,460		0.451	10.2	1
06958	Manganese	7439-96-5	255		0.0369	0.512	1
10145	Phosphorus	7723-14-0	444		0.358	10.2	1
01662	Potassium	7440-09-7	2,760		11.6	51.2	1
01667	Sodium	7440-23-5	91.0	J	6.09	102	1
07968	Strontium	7440-24-6	20.9		0.0256	0.512	1
06969	Tin	7440-31-5	3.18	J	0.328	10.2	1
06970	Titanium	7440-32-6	893		0.0727	1.02	1
10146	Zirconium	7440-67-7	1.72	J	0.471	5.12	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.507		0.0750	0.203	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.12		0.0811	0.406	2
06126	Barium	7440-39-3	98.9		0.107	0.406	2
06127	Beryllium	7440-41-7	0.611		0.0162	0.101	2
06128	Cadmium	7440-43-9	1.46		0.0446	0.101	2
06131	Chromium	7440-47-3	59.1		0.122	0.406	2
06132	Cobalt	7440-48-4	5.42		0.0203	0.101	2
06133	Copper	7440-50-8	46.2		0.0811	0.406	2
06135	Lead	7439-92-1	90.8		0.0259	0.507	5
06138	Molybdenum	7439-98-7	1.50		0.0507	0.101	2
06139	Nickel	7440-02-0	16.9		0.101	0.406	2
06141	Selenium	7782-49-2	0.157	J	0.0588	0.406	2
06142	Silver	7440-22-4	0.149		0.0144	0.101	2
06145	Thallium	7440-28-0	0.243		0.0304	0.101	2
06148	Vanadium	7440-62-2	30.3		0.0223	0.101	2
06149	Zinc	7440-66-6	687		2.84	15.2	10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.479		0.0072	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.82	1.0	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA6-SS-0.0-0.5

LLI Sample # SW 6346962
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Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0103 SDG#: DE201-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.75	J	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.33		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.3		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11206SLB026	08/10/2011 18:13	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11207SLE026	08/01/2011 12:27	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11207SLE026	07/27/2011 06:50	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11206SLB026	07/25/2011 19:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112060012A	07/27/2011 19:24	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/18/2011 02:22	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/18/2011 02:37	Melissa McDermott	50
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/19/2011 09:09	Melissa McDermott	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/21/2011 01:00	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060005A	07/27/2011 05:04	Sarah M Snyder	200
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112040007A	07/25/2011 11:05	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060005A	07/25/2011 14:45	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112060012A	07/25/2011 21:15	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112005708002	07/26/2011 04:11	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112005708002	07/26/2011 04:11	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA6-SS-0.0-0.5

LLI Sample # SW 6346962
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 12:57

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0103 SDG#: DE201-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	112005708002	07/26/2011 04:11	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112005708002	07/26/2011 04:11	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112005708002	07/26/2011 04:11	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112005708002	07/26/2011 04:11	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112005708002	07/26/2011 04:11	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112005708002	07/26/2011 04:11	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112005708002	07/26/2011 04:11	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112005708002	07/26/2011 04:11	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112005708002	07/26/2011 04:11	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112005708002	07/26/2011 04:11	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112005708002	07/26/2011 04:11	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112005708002	07/26/2011 04:11	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112001026001A	07/25/2011 10:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112001026001A	07/25/2011 10:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112001026001D	07/25/2011 10:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112001026001A	07/25/2011 10:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112001026001A	07/25/2011 10:39	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112001026001A	07/25/2011 10:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112001026001A	07/25/2011 10:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112001026001A	07/25/2011 10:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112001026001A	07/25/2011 11:30	Choon Y Tian	5
06138	Molybdenum	SW-846 6020	1	112001026001C	07/25/2011 10:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112001026001A	07/25/2011 10:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112001026001B	07/25/2011 10:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112001026001A	07/25/2011 10:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112001026001A	07/25/2011 10:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112001026001A	07/25/2011 10:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112001026001A	07/25/2011 11:33	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	112005711002	07/20/2011 06:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112005708002	07/19/2011 22:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112001026001	07/19/2011 22:13	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112011026002	07/20/2011 11:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112005711002	07/20/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208495201A	07/30/2011 19:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206495201A	07/27/2011 17:45	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243203A	07/29/2011 13:15	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11208495201A	07/27/2011 21:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206495201A	07/25/2011 21:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039402A	07/26/2011 20:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243203A	07/27/2011 21:00	Daniel S Smith	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-020-SA6-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA6-SS-0.0-0.5

LLI Sample # SW 6346962
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 12:57

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0103 SDG#: DE201-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-029-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA6-SS-0.0-0.5

LLI Sample # SW 6346963
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:26

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0104 SDG#: DE201-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(b)fluoranthene	205-99-2	18	J	17	170	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	17	340	1
04688	Fluoranthene	206-44-0	23	J	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-029-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA6-SS-0.0-0.5

LLI Sample # SW 6346963
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:26

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0104 SDG#: DE201-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Pyrene	129-00-0	21	J	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.1	J	6.1	18	1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7	1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18	1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	2.0	U	2.0	2.0	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	77	U	77	250	1
10401	MCPP (Mecoprop)	93-65-2	91	J	76	250	1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17	1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does						

*=This limit was used in the evaluation of the final result

Sample Description: SL-029-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA6-SS-0.0-0.5

LLI Sample # SW 6346963
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:26

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0104 SDG#: DE201-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. MCPP was detected in the method blank at 150 ug/kg and in the sample at 89 ug/kg. The sample was reextracted outside the method hold time. The blank and the sample associated with the reextraction did not have a MCPP detection. The original data was reported. Reporting limits were raised for 2,4-DB due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	3.8		0.81	3.5	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35	1
01363	p,p-DDE	72-55-9	0.95	U	0.95	0.95	1
01363	p,p-DDT	50-29-3	5.0		0.34	1.7	5
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17	1
01363	Dieldrin	60-57-1	0.57	U	0.57	0.57	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.17	U	0.17	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35	1
01363	Endrin	72-20-8	0.13	U	0.13	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.65	U	0.65	0.65	1
01363	Endrin Ketone	53494-70-5	0.24	U	0.24	0.35	1
01363	Heptachlor	76-44-8	0.16	U	0.16	0.16	1
01363	Heptachlor Epoxide	1024-57-3	0.091	U	0.091	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.067	U	0.067	0.35	1
01363	Toxaphene	8001-35-2	30	U	30	30	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. The samples were injected after maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17	5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17	5
10225	Aroclor 5460	11126-42-4	7.6	J	5.1	17	5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.6	5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6	5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6	5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6	5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6	5
10225	PCB-1254	11097-69-1	1.7	U	1.7	8.6	5
10225	PCB-1260	11096-82-5	18		2.0	8.6	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-029-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA6-SS-0.0-0.5

LLI Sample # SW 6346963
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:26

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0104 SDG#: DE201-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6	5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6	5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,200		6.08	20.1	1
07914	Boron	7440-42-8	0.851	J	0.362	5.03	1
01650	Calcium	7440-70-2	2,960		2.51	20.1	1
01654	Iron	7439-89-6	17,800		2.62	20.1	1
01656	Lithium	7439-93-2	26.2		0.62	2.0	1
01657	Magnesium	7439-95-4	4,050		0.442	10.1	1
06958	Manganese	7439-96-5	306		0.0362	0.503	1
10145	Phosphorus	7723-14-0	502		0.352	10.1	1
01662	Potassium	7440-09-7	3,500		11.4	50.3	1
01667	Sodium	7440-23-5	65.8	J	5.98	101	1
07968	Strontium	7440-24-6	16.4		0.0251	0.503	1
06969	Tin	7440-31-5	2.74	J	0.322	10.1	1
06970	Titanium	7440-32-6	962		0.0714	1.01	1
10146	Zirconium	7440-67-7	1.80	J	0.462	5.03	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.247		0.0737	0.199	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.81		0.0796	0.398	2
06126	Barium	7440-39-3	167		0.106	0.398	2
06127	Beryllium	7440-41-7	0.729		0.0159	0.0995	2
06128	Cadmium	7440-43-9	0.397		0.0438	0.0995	2
06131	Chromium	7440-47-3	24.4		0.119	0.398	2
06132	Cobalt	7440-48-4	7.91		0.0199	0.0995	2
06133	Copper	7440-50-8	15.3		0.0796	0.398	2
06135	Lead	7439-92-1	56.7		0.0102	0.199	2
06138	Molybdenum	7439-98-7	0.986		0.0498	0.0995	2
06139	Nickel	7440-02-0	17.9		0.0995	0.398	2
06141	Selenium	7782-49-2	0.285	J	0.0577	0.398	2
06142	Silver	7440-22-4	0.163		0.0141	0.0995	2
06145	Thallium	7440-28-0	0.399		0.0299	0.0995	2
06148	Vanadium	7440-62-2	46.4		0.0219	0.0995	2
06149	Zinc	7440-66-6	136		0.557	2.99	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0172	J	0.0070	0.0991	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.5	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-029-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA6-SS-0.0-0.5

LLI Sample # SW 6346963
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:26

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0104 SDG#: DE201-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20 U	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.37	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.5	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11206SLB026	08/10/2011 18:39	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11207SLE026	08/01/2011 12:59	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11207SLE026	07/27/2011 06:50	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11206SLB026	07/25/2011 19:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112060012A	07/27/2011 19:51	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/18/2011 02:51	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/19/2011 09:24	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060005A	07/27/2011 19:05	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112040007A	07/25/2011 11:05	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060005A	07/25/2011 14:45	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112060012A	07/25/2011 21:15	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112005708002	07/26/2011 04:15	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112005708002	07/26/2011 04:15	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112005708002	07/26/2011 04:15	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112005708002	07/26/2011 04:15	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112005708002	07/26/2011 04:15	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112005708002	07/26/2011 04:15	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112005708002	07/26/2011 04:15	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-029-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA6-SS-0.0-0.5

LLI Sample # SW 6346963
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:26

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0104 SDG#: DE201-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112005708002	07/26/2011 04:15	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112005708002	07/26/2011 04:15	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112005708002	07/26/2011 04:15	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112005708002	07/26/2011 04:15	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112005708002	07/26/2011 04:15	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112005708002	07/26/2011 04:15	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112005708002	07/26/2011 04:15	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112001026001A	07/25/2011 10:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112001026001A	07/25/2011 10:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112001026001D	07/25/2011 10:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112001026001A	07/25/2011 10:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112001026001A	07/25/2011 10:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112001026001A	07/25/2011 10:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112001026001A	07/25/2011 10:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112001026001A	07/25/2011 10:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112001026001A	07/25/2011 10:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112001026001C	07/25/2011 10:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112001026001A	07/25/2011 10:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112001026001B	07/25/2011 10:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112001026001A	07/25/2011 10:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112001026001A	07/25/2011 10:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112001026001A	07/25/2011 10:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112001026001A	07/25/2011 10:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112005711002	07/20/2011 06:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112005708002	07/19/2011 22:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112001026001	07/19/2011 22:13	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112011026002	07/20/2011 11:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112005711002	07/20/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208495201A	07/30/2011 19:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206495201A	07/27/2011 18:08	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243203A	07/29/2011 13:30	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11208495201A	07/27/2011 21:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206495201A	07/25/2011 21:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039402A	07/26/2011 20:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243203A	07/27/2011 21:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

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Analysis Report

Sample Description: SL-043-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA6-SS-0.0-0.5

LLI Sample # SW 6346964
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 07:41

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0105 SDG#: DE201-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-043-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA6-SS-0.0-0.5

LLI Sample # SW 6346964
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 07:41

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0105 SDG#: DE201-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.7	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.7	1
10138	Pyrene	129-00-0	0.70	U	0.70	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	1.3	J	0.65	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	100	U	100	260	1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260	1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-043-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA6-SS-0.0-0.5

LLI Sample # SW 6346964
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 07:41

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0105 SDG#: DE201-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Reporting limits were raised for MCPA due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	0.83	U	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.35	1
01363	p,p-DDE	72-55-9	0.096	J	0.069	0.35	1
01363	p,p-DDT	50-29-3	0.069	U	0.069	0.35	1
01363	Delta BHC	319-86-8	0.040	J	0.037	0.17	1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.35	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35	1
01363	Endrin	72-20-8	0.069	U	0.069	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.21	J	0.069	0.35	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.35	1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.063	U	0.063	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.27	J	0.069	0.35	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. The samples were injected after maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5	1
10225	Aroclor 5460	11126-42-4	4.7		1.0	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	3.2		0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-043-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA6-SS-0.0-0.5

LLI Sample # SW 6346964
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 07:41

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0105 SDG#: DE201-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	100	U	100	520	1
10501	Methanol	67-56-1	100	U	100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10	1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10	1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3	1
10199	EFH (C15-C20)	n.a.	1.7		0.42	1.3	1
10199	EFH (C21-C30)	n.a.	16		0.42	1.3	1
10199	EFH (C30 - C40)	n.a.	27		0.42	1.3	1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,500		6.27	20.7	1
07914	Boron	7440-42-8	0.855	J	0.373	5.18	1
01650	Calcium	7440-70-2	7,140		2.59	20.7	1
01654	Iron	7439-89-6	15,900		2.71	20.7	1
01656	Lithium	7439-93-2	20.3		0.64	2.1	1
01657	Magnesium	7439-95-4	3,510		0.456	10.4	1
06958	Manganese	7439-96-5	258		0.0373	0.518	1
10145	Phosphorus	7723-14-0	509		0.363	10.4	1
01662	Potassium	7440-09-7	2,970		11.7	51.8	1
01667	Sodium	7440-23-5	115		6.17	104	1
07968	Strontium	7440-24-6	26.7		0.0259	0.518	1
06969	Tin	7440-31-5	2.30	J	0.332	10.4	1
06970	Titanium	7440-32-6	857		0.0736	1.04	1
10146	Zirconium	7440-67-7	2.24	J	0.477	5.18	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.102	J	0.0760	0.205	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.29		0.0821	0.411	2
06126	Barium	7440-39-3	117		0.109	0.411	2
06127	Beryllium	7440-41-7	0.532		0.0164	0.103	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-043-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA6-SS-0.0-0.5

LLI Sample # SW 6346964
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 07:41

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0105 SDG#: DE201-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.343		0.0452	0.103	2
06131	Chromium	7440-47-3	18.0		0.123	0.411	2
06132	Cobalt	7440-48-4	6.11		0.0205	0.103	2
06133	Copper	7440-50-8	12.5		0.0821	0.411	2
06135	Lead	7439-92-1	22.2		0.0105	0.205	2
06138	Molybdenum	7439-98-7	0.570		0.0513	0.103	2
06139	Nickel	7440-02-0	11.8		0.103	0.411	2
06141	Selenium	7782-49-2	0.108	J	0.0595	0.411	2
06142	Silver	7440-22-4	0.0580	J	0.0146	0.103	2
06145	Thallium	7440-28-0	0.276		0.0308	0.103	2
06148	Vanadium	7440-62-2	35.0		0.0226	0.103	2
06149	Zinc	7440-66-6	75.3		0.575	3.08	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0201	J	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.20		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.5		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-043-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA6-SS-0.0-0.5

LLI Sample # SW 6346964
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 07:41

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0105 SDG#: DE201-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11206SLB026	08/10/2011 19:03	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11207SLE026	08/01/2011 13:31	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11207SLE026	07/27/2011 06:50	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11206SLB026	07/25/2011 19:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112060012A	07/27/2011 20:19	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/18/2011 03:05	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060005A	07/27/2011 05:41	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112040007A	07/25/2011 11:05	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060005A	07/25/2011 14:45	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112060012A	07/25/2011 21:15	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112010028A	07/21/2011 19:47	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111990002A	07/19/2011 13:58	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112060019A	07/28/2011 20:28	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020039A	07/26/2011 23:51	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112020039A	07/22/2011 17:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112060019A	07/26/2011 00:00	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112010028A	07/21/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111990002A	07/18/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112005708002	07/26/2011 04:19	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112005708002	07/26/2011 04:19	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112005708002	07/26/2011 04:19	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112005708002	07/26/2011 04:19	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112005708002	07/26/2011 04:19	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112005708002	07/26/2011 04:19	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112005708002	07/26/2011 04:19	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112005708002	07/26/2011 04:19	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112005708002	07/26/2011 04:19	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112005708002	07/26/2011 04:19	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112005708002	07/26/2011 04:19	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112005708002	07/26/2011 04:19	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112005708002	07/26/2011 04:19	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112005708002	07/26/2011 04:19	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112001026001A	07/25/2011 10:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112001026001A	07/25/2011 10:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112001026001D	07/25/2011 10:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112001026001A	07/25/2011 10:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112001026001A	07/25/2011 10:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112001026001A	07/25/2011 10:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112001026001A	07/25/2011 10:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112001026001A	07/25/2011 10:45	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-043-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA6-SS-0.0-0.5

LLI Sample # SW 6346964
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 07:41

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0105 SDG#: DE201-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	112001026001A	07/25/2011 10:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112001026001C	07/25/2011 10:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112001026001A	07/25/2011 10:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112001026001B	07/25/2011 10:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112001026001A	07/25/2011 10:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112001026001A	07/25/2011 10:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112001026001A	07/25/2011 10:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112001026001A	07/25/2011 10:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112005711002	07/20/2011 06:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112005708002	07/19/2011 22:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112001026001	07/19/2011 22:13	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112011026002	07/20/2011 11:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112005711002	07/20/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208495201A	07/30/2011 20:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206495201A	07/27/2011 18:31	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243203A	07/29/2011 13:44	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11208495201A	07/27/2011 21:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206495201A	07/25/2011 21:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039402A	07/26/2011 20:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243203A	07/27/2011 21:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-044-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA6-SS-0.0-0.5

LLI Sample # SW 6346965
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:00

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0106 SDG#: DE201-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-044-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA6-SS-0.0-0.5

LLI Sample # SW 6346965
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:00

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0106 SDG#: DE201-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.68	U	0.68	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18	1
10138	Di-n-butylphthalate	84-74-2	6.2	J	6.1	18	1
10138	Chrysene	218-01-9	2.2		0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	230		6.1	18	1
10138	Fluoranthene	206-44-0	0.68	U	0.68	1.7	1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7	1
10138	Naphthalene	91-20-3	2.6		0.68	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18	1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7	1
10138	Pyrene	129-00-0	0.68	U	0.68	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2	1
10401	2,4-DB	94-82-6	2.2	U	2.2	2.2	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	300	U	300	300	1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250	1
10401	2,4,5-T	93-76-5	0.20	U	0.20	0.20	1
10401	2,4,5-TP	93-72-1	0.20		0.076	0.17	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-044-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA6-SS-0.0-0.5

LLI Sample # SW 6346965
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:00

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0106 SDG#: DE201-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Reporting limits were raised for MCPA, 2,4,5-T, and 2,4-DB due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.044	J	0.035	0.17	1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5	1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.35	1
01363	p,p-DDE	72-55-9	0.10	U	0.10	0.35	1
01363	p,p-DDT	50-29-3	0.61		0.067	0.35	1
01363	Delta BHC	319-86-8	0.051	U	0.051	0.17	1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35	1
01363	Endrin	72-20-8	0.067	U	0.067	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.20	U	0.20	0.35	1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35	1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.11	U	0.11	0.35	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. The samples were injected after maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	2.1	J	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7	1
10225	PCB-1260	11096-82-5	3.7		0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510	1

*=This limit was used in the evaluation of the final result

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SSFL Area IV Collocated Soil Sampling
SL-044-SA6-SS-0.0-0.5

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E0106 SDG#: DE201-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	100	U	100	510	1
10501	Methanol	67-56-1	100	U	100	510	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10	1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10	1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.1	U	4.1	12	10
10199	EFH (C15-C20)	n.a.	4.1	U	4.1	12	10
10199	EFH (C21-C30)	n.a.	56		4.1	12	10
10199	EFH (C30 - C40)	n.a.	240		4.1	12	10
10199	EFH (C8-C11)	n.a.	4.1	U	4.1	12	10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,000		5.99	19.8	1
07914	Boron	7440-42-8	0.805	J	0.357	4.95	1
01650	Calcium	7440-70-2	3,200		2.48	19.8	1
01654	Iron	7439-89-6	20,400		2.59	19.8	1
01656	Lithium	7439-93-2	22.8		0.61	2.0	1
01657	Magnesium	7439-95-4	3,920		0.436	9.91	1
06958	Manganese	7439-96-5	291		0.0357	0.495	1
10145	Phosphorus	7723-14-0	359		0.347	9.91	1
01662	Potassium	7440-09-7	2,740		11.2	49.5	1
01667	Sodium	7440-23-5	91.0	J	5.89	99.1	1
07968	Strontium	7440-24-6	14.6		0.0248	0.495	1
06969	Tin	7440-31-5	2.65	J	0.317	9.91	1
06970	Titanium	7440-32-6	1,050		0.0703	0.991	1
10146	Zirconium	7440-67-7	1.60	J	0.456	4.95	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.167	J	0.0726	0.196	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.65		0.0785	0.392	2
06126	Barium	7440-39-3	115		0.104	0.392	2
06127	Beryllium	7440-41-7	0.534		0.0157	0.0981	2

*=This limit was used in the evaluation of the final result

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E0106 SDG#: DE201-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.423		0.0432	0.0981	2
06131	Chromium	7440-47-3	19.5		0.118	0.392	2
06132	Cobalt	7440-48-4	6.86		0.0196	0.0981	2
06133	Copper	7440-50-8	15.7		0.0785	0.392	2
06135	Lead	7439-92-1	11.5		0.0100	0.196	2
06138	Molybdenum	7439-98-7	0.951		0.0491	0.0981	2
06139	Nickel	7440-02-0	12.1		0.0981	0.392	2
06141	Selenium	7782-49-2	0.142	J	0.0569	0.392	2
06142	Silver	7440-22-4	0.0371	J	0.0139	0.0981	2
06145	Thallium	7440-28-0	0.249		0.0294	0.0981	2
06148	Vanadium	7440-62-2	41.2		0.0216	0.0981	2
06149	Zinc	7440-66-6	105		0.549	2.94	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0374	J	0.0069	0.0979	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.54	J	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.88		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.0		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-044-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA6-SS-0.0-0.5

LLI Sample # SW 6346965
LLI Group # 1256713
Account # 13013

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E0106 SDG#: DE201-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11206SLB026	08/10/2011 19:29	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11207SLE026	08/01/2011 14:02	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11207SLE026	07/27/2011 06:50	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11206SLB026	07/25/2011 19:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112060012A	07/27/2011 21:42	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/18/2011 03:19	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060005A	07/27/2011 05:59	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112040007A	07/25/2011 11:05	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060005A	07/25/2011 14:45	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112060012A	07/25/2011 21:15	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112010028A	07/21/2011 20:02	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112000001A	07/20/2011 08:52	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112060019A	07/29/2011 01:39	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020039A	07/27/2011 21:46	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112020039A	07/22/2011 17:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112060019A	07/26/2011 00:00	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112010028A	07/21/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112000001A	07/19/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112005708002	07/26/2011 04:23	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112005708002	07/26/2011 04:23	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112005708002	07/26/2011 04:23	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112005708002	07/26/2011 04:23	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112005708002	07/26/2011 04:23	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112005708002	07/26/2011 04:23	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112005708002	07/26/2011 04:23	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112005708002	07/26/2011 04:23	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112005708002	07/26/2011 04:23	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112005708002	07/26/2011 04:23	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112005708002	07/26/2011 04:23	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112005708002	07/26/2011 04:23	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112005708002	07/26/2011 04:23	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112005708002	07/26/2011 04:23	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112001026001A	07/25/2011 10:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112001026001A	07/25/2011 10:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112001026001D	07/25/2011 10:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112001026001A	07/25/2011 10:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112001026001A	07/25/2011 10:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112001026001A	07/25/2011 10:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112001026001A	07/25/2011 10:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112001026001A	07/25/2011 10:48	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-044-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA6-SS-0.0-0.5

LLI Sample # SW 6346965
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E0106 SDG#: DE201-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	112001026001A	07/25/2011 10:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112001026001C	07/25/2011 10:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112001026001A	07/25/2011 10:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112001026001B	07/25/2011 10:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112001026001A	07/25/2011 10:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112001026001A	07/25/2011 10:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112001026001A	07/25/2011 10:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112001026001A	07/25/2011 10:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112005711002	07/20/2011 06:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112005708002	07/19/2011 22:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112001026001	07/19/2011 22:13	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112011026002	07/20/2011 11:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112005711002	07/20/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208495201A	07/30/2011 20:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206495201A	07/27/2011 18:54	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243203A	07/29/2011 14:06	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11208495201A	07/27/2011 21:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206495201A	07/25/2011 21:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039402A	07/26/2011 20:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243203A	07/27/2011 21:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SS-0.0-0.5

LLI Sample # SW 6346966
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:35

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0107 SDG#: DE201-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	500	1
04688	Benzyl alcohol	100-51-6	170	U	170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170	1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	17	340	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	500	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SS-0.0-0.5

LLI Sample # SW 6346966
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:35

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0107 SDG#: DE201-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	17	U	17	170	1
04688	Pentachlorophenol	87-86-5	170	U	170	500	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4	5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4	5
10138	Anthracene	120-12-7	1.7	U	1.7	8.4	5
10138	Benzo(a)anthracene	56-55-3	3.4	U	3.4	8.4	5
10138	Benzo(a)pyrene	50-32-8	3.4	U	3.4	8.4	5
10138	Benzo(b)fluoranthene	205-99-2	3.4	U	3.4	8.4	5
10138	Benzo(g,h,i)perylene	191-24-2	3.4	U	3.4	8.4	5
10138	Benzo(k)fluoranthene	207-08-9	3.4	U	3.4	8.4	5
10138	Chrysene	218-01-9	1.9	J	1.7	8.4	5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4	5
10138	Fluoranthene	206-44-0	3.4	U	3.4	8.4	5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.4	5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4	5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4	5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4	5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4	5
10138	Phenanthrene	85-01-8	3.4	U	3.4	8.4	5
10138	Pyrene	129-00-0	3.4	U	3.4	8.4	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0	1
10401	2,4-DB	94-82-6	5.0	U	5.0	5.0	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7	1
10401	MCPA	94-74-6	76	U	76	250	1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250	1
10401	2,4,5-T	93-76-5	0.12	U	0.12	0.17	1
10401	2,4,5-TP	93-72-1	0.080	J	0.075	0.17	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: SL-126-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SS-0.0-0.5

LLI Sample # SW 6346966
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:35

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0107 SDG#: DE201-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported. Reporting limits were raised for 2,4,5-T and 2,4-DB due to interference from the sample matrix.						
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.0	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17	1
01363	Chlordane	57-74-9	3.1	J	0.80	3.4	1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34	1
01363	p,p-DDE	72-55-9	1.4	U	1.4	1.4	1
01363	p,p-DDT	50-29-3	3.5	U	3.5	3.5	5
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17	1
01363	Dieldrin	60-57-1	1.9	U	1.9	1.9	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.25	U	0.25	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34	1
01363	Endrin	72-20-8	0.29	U	0.29	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.27	U	0.27	0.34	1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34	1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.38	U	0.38	0.38	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.31	U	0.31	0.34	1
01363	Toxaphene	8001-35-2	26	U	26	26	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. The samples were injected after maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	50	U	50	170	50
10225	Aroclor 5442	12642-23-8	50	U	50	170	50
10225	Aroclor 5460	11126-42-4	180		50	170	50
10225	PCB-1016	12674-11-2	17	U	17	86	50
10225	PCB-1221	11104-28-2	17	U	17	86	50
10225	PCB-1232	11141-16-5	17	U	17	86	50
10225	PCB-1242	53469-21-9	17	U	17	86	50
10225	PCB-1248	12672-29-6	17	U	17	86	50
10225	PCB-1254	11097-69-1	230		17	86	50
10225	PCB-1260	11096-82-5	20	U	20	86	50
10225	PCB-1262	37324-23-5	17	U	17	86	50

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SS-0.0-0.5

LLI Sample # SW 6346966
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:35

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0107 SDG#: DE201-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	17	U	17	86	50
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500	1
10501	Isopropanol	67-63-0	100	U	100	500	1
10501	Methanol	67-56-1	100	U	100	500	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10	1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10	1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.1	5
10199	EFH (C15-C20)	n.a.	2.3	J	2.0	6.1	5
10199	EFH (C21-C30)	n.a.	21		2.0	6.1	5
10199	EFH (C30 - C40)	n.a.	69		2.0	6.1	5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.1	5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,200		5.93	19.6	1
07914	Boron	7440-42-8	0.729	J	0.353	4.90	1
01650	Calcium	7440-70-2	2,640		2.45	19.6	1
01654	Iron	7439-89-6	18,800		2.56	19.6	1
01656	Lithium	7439-93-2	20.2		0.61	2.0	1
01657	Magnesium	7439-95-4	4,210		0.431	9.80	1
06958	Manganese	7439-96-5	213		0.0353	0.490	1
10145	Phosphorus	7723-14-0	424		0.343	9.80	1
01662	Potassium	7440-09-7	2,930		11.1	49.0	1
01667	Sodium	7440-23-5	87.7	J	5.83	98.0	1
07968	Strontium	7440-24-6	18.3		0.0245	0.490	1
06969	Tin	7440-31-5	2.53	J	0.314	9.80	1
06970	Titanium	7440-32-6	961		0.0696	0.980	1
10146	Zirconium	7440-67-7	1.95	J	0.451	4.90	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.224		0.0725	0.196	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SS-0.0-0.5

LLI Sample # SW 6346966
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:35

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CDM Federal Programs Corp.
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E0107 SDG#: DE201-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.40		0.0784	0.392	2
06126	Barium	7440-39-3	114		0.104	0.392	2
06127	Beryllium	7440-41-7	0.669		0.0157	0.0980	2
06128	Cadmium	7440-43-9	0.240		0.0431	0.0980	2
06131	Chromium	7440-47-3	25.5		0.118	0.392	2
06132	Cobalt	7440-48-4	7.56		0.0196	0.0980	2
06133	Copper	7440-50-8	12.7		0.0784	0.392	2
06135	Lead	7439-92-1	49.5		0.010	0.196	2
06138	Molybdenum	7439-98-7	0.958		0.0490	0.0980	2
06139	Nickel	7440-02-0	18.8		0.0980	0.392	2
06141	Selenium	7782-49-2	0.114	J	0.0568	0.392	2
06142	Silver	7440-22-4	0.0610	J	0.0139	0.0980	2
06145	Thallium	7440-28-0	0.270		0.0294	0.0980	2
06148	Vanadium	7440-62-2	42.9		0.0216	0.0980	2
06149	Zinc	7440-66-6	97.0		0.549	2.94	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	U	0.0070	0.0997	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.93	J	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.07		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.93		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-126-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SS-0.0-0.5

LLI Sample # SW 6346966
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:35

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0107 SDG#: DE201-07

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11206SLB026	08/10/2011 19:53	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11207SLE026	08/01/2011 14:34	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11207SLE026	07/27/2011 06:50	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11206SLB026	07/25/2011 19:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112060012A	07/27/2011 22:09	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112130022A	08/03/2011 19:45	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/18/2011 03:33	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/18/2011 03:48	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060005A	07/27/2011 06:18	Sarah M Snyder	50
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112040007A	07/25/2011 11:05	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060005A	07/25/2011 14:45	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112060012A	07/25/2011 21:15	Elaine F Stoltzfus	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112130022A	08/02/2011 10:45	Maria Davenport	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112010028A	07/21/2011 20:17	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112000001A	07/20/2011 09:05	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112060019A	07/29/2011 03:08	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020039A	07/27/2011 20:34	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112020039A	07/22/2011 17:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112060019A	07/26/2011 00:00	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112010028A	07/21/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112000001A	07/19/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112005708002	07/26/2011 04:28	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112005708002	07/26/2011 04:28	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112005708002	07/26/2011 04:28	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112005708002	07/26/2011 04:28	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112005708002	07/26/2011 04:28	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112005708002	07/26/2011 04:28	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112005708002	07/26/2011 04:28	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112005708002	07/26/2011 04:28	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SS-0.0-0.5

LLI Sample # SW 6346966
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:35

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0107 SDG#: DE201-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	112005708002	07/26/2011 04:28	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112005708002	07/26/2011 04:28	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112005708002	07/26/2011 04:28	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112005708002	07/26/2011 04:28	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112005708002	07/26/2011 04:28	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112005708002	07/26/2011 04:28	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112001026001A	07/25/2011 10:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112001026001A	07/25/2011 10:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112001026001D	07/25/2011 10:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112001026001A	07/25/2011 10:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112001026001A	07/25/2011 10:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112001026001A	07/25/2011 10:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112001026001A	07/25/2011 10:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112001026001A	07/25/2011 10:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112001026001A	07/25/2011 10:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112001026001C	07/25/2011 10:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112001026001A	07/25/2011 10:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112001026001B	07/25/2011 10:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112001026001A	07/25/2011 10:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112001026001A	07/25/2011 10:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112001026001A	07/25/2011 10:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112001026001A	07/25/2011 10:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112005711002	07/20/2011 06:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112005708002	07/19/2011 22:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112001026001	07/19/2011 22:13	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112011026002	07/20/2011 11:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112005711002	07/20/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208495201A	07/30/2011 20:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206495201A	07/27/2011 19:17	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243203A	07/29/2011 14:20	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11208495201A	07/27/2011 21:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206495201A	07/25/2011 21:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039402A	07/26/2011 20:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243203A	07/27/2011 21:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-302-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-302-SA6-SS-0.0-0.5

LLI Sample # SW 6346967
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:28

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0108 SDG#: DE201-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	430		17	340	1
04688	Fluorene	86-73-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-302-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-302-SA6-SS-0.0-0.5

LLI Sample # SW 6346967
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:28

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0108 SDG#: DE201-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	34	J	17	170	1
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.87	J	0.69	1.7	1
10138	Acenaphthylene	208-96-8	4.6		0.34	1.7	1
10138	Anthracene	120-12-7	13		0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	6.9		0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	4.5		0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	34		0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	1.5	J	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	14		0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	13	J	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	7.4	J	6.2	19	1
10138	Chrysene	218-01-9	30		0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	110		0.69	1.7	1
10138	Fluorene	86-73-7	4.6		0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.6	J	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	2.7		0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	2.6		0.69	1.7	1
10138	Naphthalene	91-20-3	1.9		0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Phenanthrene	85-01-8	100		0.69	1.7	1
10138	Pyrene	129-00-0	75		0.69	1.7	1
	The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	5.2	U	5.2	5.2	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.3	1
10401	2,4-DB	94-82-6	5.8	U	5.8	5.8	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-302-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-302-SA6-SS-0.0-0.5

LLI Sample # SW 6346967
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:28

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

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Suite 210
Chantilly VA 20151

E0108 SDG#: DE201-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	MCPA	94-74-6	78	U	78	260	1
10401	MCPP (Mecoprop)	93-65-2	1,500		77	260	1
10401	2,4,5-T	93-76-5	0.27	U	0.27	0.27	1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
MCPP was detected in the method blank at 150 ug/kg and in the sample at 1500 ug/kg. The sample was reextracted outside the method hold time. The blank and the sample associated with the reextraction did not have a MCPP detection. The original data was reported.
Reporting limits were raised for 2,4-D, 2,4,5-T, and 2,4-DB due to interference from the sample matrix.
The surrogate data is outside the QC limits. Results from the reextraction are within the limits. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	3.3	J	0.82	3.5	1
01363	p,p-DDD	72-54-8	0.73	U	0.73	0.73	1
01363	p,p-DDE	72-55-9	0.39	U	0.39	0.39	1
01363	p,p-DDT	50-29-3	4.0		0.34	1.7	5
01363	Delta BHC	319-86-8	0.052	U	0.052	0.17	1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.15	U	0.15	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1
01363	Endrin	72-20-8	0.068	U	0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.65	U	0.65	0.65	1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35	1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.093	U	0.093	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.39	U	0.39	0.39	1
01363	Toxaphene	8001-35-2	30	U	30	30	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. The samples were injected after maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The LCS data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Reporting limits were raised due to interference from the sample matrix.

The surrogate data is outside the QC limits due to unresolvable

Sample Description: SL-302-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-302-SA6-SS-0.0-0.5

LLI Sample # SW 6346967
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:28

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0108 SDG#: DE201-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	5.0		1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	6.9		0.34	1.8	1
10225	PCB-1260	11096-82-5	2.8		0.40	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520	1
10501	Isopropanol	67-63-0	100	U	100	520	1
10501	Methanol	67-56-1	100	U	100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10	1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10	1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.1	U	4.1	12	10
10199	EFH (C15-C20)	n.a.	12	J	4.1	12	10
10199	EFH (C21-C30)	n.a.	160		4.1	12	10
10199	EFH (C30 - C40)	n.a.	520		4.1	12	10
10199	EFH (C8-C11)	n.a.	4.1	U	4.1	12	10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,300		6.18	20.4	1
07914	Boron	7440-42-8	0.716	J	0.367	5.10	1
01650	Calcium	7440-70-2	2,180		2.55	20.4	1
01654	Iron	7439-89-6	15,900		2.66	20.4	1
01656	Lithium	7439-93-2	23.2		0.63	2.0	1
01657	Magnesium	7439-95-4	3,190		0.449	10.2	1
06958	Manganese	7439-96-5	259		0.0367	0.510	1
10145	Phosphorus	7723-14-0	392		0.357	10.2	1
01662	Potassium	7440-09-7	2,800		11.5	51.0	1
01667	Sodium	7440-23-5	68.4	J	6.07	102	1
07968	Strontium	7440-24-6	10.6		0.0255	0.510	1
06969	Tin	7440-31-5	2.66	J	0.327	10.2	1
06970	Titanium	7440-32-6	878		0.0725	1.02	1
10146	Zirconium	7440-67-7	0.955	J	0.470	5.10	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-302-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-302-SA6-SS-0.0-0.5

LLI Sample # SW 6346967
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:28

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0108 SDG#: DE201-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.109	J	0.0741	0.200	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	2.97		0.0801	0.400	2
06126	Barium	7440-39-3	74.9		0.106	0.400	2
06127	Beryllium	7440-41-7	0.384		0.0160	0.100	2
06128	Cadmium	7440-43-9	0.777		0.0440	0.100	2
06131	Chromium	7440-47-3	10.6		0.120	0.400	2
06132	Cobalt	7440-48-4	3.92		0.0200	0.100	2
06133	Copper	7440-50-8	9.40		0.0801	0.400	2
06135	Lead	7439-92-1	40.3		0.0102	0.200	2
06138	Molybdenum	7439-98-7	0.588		0.0500	0.100	2
06139	Nickel	7440-02-0	7.47		0.100	0.400	2
06141	Selenium	7782-49-2	0.131	J	0.0581	0.400	2
06142	Silver	7440-22-4	0.0349	J	0.0142	0.100	2
06145	Thallium	7440-28-0	0.226		0.0300	0.100	2
06148	Vanadium	7440-62-2	23.0		0.0220	0.100	2
06149	Zinc	7440-66-6	140		0.561	3.00	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0194	J	0.0070	0.0994	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	30.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.18		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.0		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-302-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-302-SA6-SS-0.0-0.5

LLI Sample # SW 6346967
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:28

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0108 SDG#: DE201-08

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11206SLB026	08/10/2011 20:18	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11207SLE026	08/01/2011 15:06	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11207SLE026	07/27/2011 06:50	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11206SLB026	07/25/2011 19:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112060012A	07/27/2011 22:37	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/18/2011 04:03	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/18/2011 04:17	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060005A	07/27/2011 06:36	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112040007A	07/25/2011 11:05	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060005A	07/25/2011 14:45	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112060012A	07/25/2011 21:15	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112010028A	07/21/2011 20:32	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112000001A	07/20/2011 09:18	Dustin A Underkoffler	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020039A	07/27/2011 22:10	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112020039A	07/22/2011 17:30	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112010028A	07/21/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112000001A	07/19/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112005708002	07/26/2011 04:32	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112005708002	07/26/2011 04:32	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112005708002	07/26/2011 04:32	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112005708002	07/26/2011 04:32	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112005708002	07/26/2011 04:32	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112005708002	07/26/2011 04:32	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112005708002	07/26/2011 04:32	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112005708002	07/26/2011 04:32	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112005708002	07/26/2011 04:32	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112005708002	07/26/2011 04:32	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112005708002	07/26/2011 04:32	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112005708002	07/26/2011 04:32	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112005708002	07/26/2011 04:32	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112005708002	07/26/2011 04:32	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112001026001A	07/25/2011 10:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112001026001A	07/25/2011 10:56	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-302-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-302-SA6-SS-0.0-0.5

LLI Sample # SW 6346967
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:28

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0108 SDG#: DE201-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112001026001D	07/25/2011 10:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112001026001A	07/25/2011 10:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112001026001A	07/25/2011 10:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112001026001A	07/25/2011 10:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112001026001A	07/25/2011 10:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112001026001A	07/25/2011 10:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112001026001A	07/25/2011 10:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112001026001C	07/25/2011 10:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112001026001A	07/25/2011 10:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112001026001B	07/25/2011 10:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112001026001A	07/25/2011 10:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112001026001A	07/25/2011 10:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112001026001A	07/25/2011 10:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112001026001A	07/25/2011 10:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112005711002	07/20/2011 06:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112005708002	07/19/2011 22:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112001026001	07/19/2011 22:13	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112011026002	07/20/2011 11:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112005711002	07/20/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208495201A	07/30/2011 20:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206495201A	07/27/2011 19:40	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243203A	07/29/2011 14:42	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11208495201A	07/27/2011 21:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206495201A	07/25/2011 21:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039402A	07/26/2011 20:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243203A	07/27/2011 21:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-303-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-303-SA6-SS-0.0-0.5

LLI Sample # SW 6346968
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:55

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0109 SDG#: DE201-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Chrysene	218-01-9	23	J	17	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-303-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-303-SA6-SS-0.0-0.5

LLI Sample # SW 6346968
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:55

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0109 SDG#: DE201-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170	1
04688	Pyrene	129-00-0	31	J	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	1.3	J	0.34	1.7	1
10138	Anthracene	120-12-7	5.4		0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	3.5		0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	3.5		0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	24		0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	2.5		0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	11		0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	31		6.2	19	1
10138	Di-n-butylphthalate	84-74-2	11	J	6.2	19	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	93		6.2	19	1
10138	Fluoranthene	206-44-0	35		0.69	1.7	1
10138	Fluorene	86-73-7	1.4	J	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.7	J	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.87	J	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	2.0		0.69	1.7	1
10138	Naphthalene	91-20-3	2.5		0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	13		0.69	1.7	1
	The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	11		1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2	1
10401	2,4-DB	94-82-6	3.3	U	3.3	3.3	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	3.2	U	3.2	3.2	1
10401	MCPA	94-74-6	3,600	U	3,600	3,600	1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260	1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17	1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-303-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-303-SA6-SS-0.0-0.5

LLI Sample # SW 6346968
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:55

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0109 SDG#: DE201-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised for MCPA, 2,4-DP, and 2,4-DB due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	4.9		0.82	3.5	1
01363	p,p-DDD	72-54-8	0.69	U	0.69	1.7	5
01363	p,p-DDE	72-55-9	0.62	U	0.62	0.62	1
01363	p,p-DDT	50-29-3	12		0.34	1.7	5
01363	Delta BHC	319-86-8	0.072	U	0.072	0.17	1
01363	Dieldrin	60-57-1	0.52	U	0.52	0.52	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.54	U	0.54	0.54	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1
01363	Endrin	72-20-8	0.068	U	0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.86	U	0.86	0.86	1
01363	Endrin Ketone	53494-70-5	0.17	U	0.17	0.35	1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.14	U	0.14	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.28	U	0.28	0.35	1
01363	Toxaphene	8001-35-2	52	U	52	52	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. The samples were injected after maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.2	U	5.2	17	5
10225	Aroclor 5442	12642-23-8	5.2	U	5.2	17	5
10225	Aroclor 5460	11126-42-4	5.2	U	5.2	17	5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.8	5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.8	5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.8	5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.8	5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.8	5
10225	PCB-1254	11097-69-1	1.7	U	1.7	8.8	5
10225	PCB-1260	11096-82-5	4.4	J	2.0	8.8	5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.8	5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.8	5

Sample Description: SL-303-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-303-SA6-SS-0.0-0.5

LLI Sample # SW 6346968
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:55

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0109 SDG#: DE201-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520	1
10501	Isopropanol	67-63-0	100	U	100	520	1
10501	Methanol	67-56-1	100	U	100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10	1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10	1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	83	U	83	250	200
10199	EFH (C15-C20)	n.a.	83	U	83	250	200
10199	EFH (C21-C30)	n.a.	1,100		83	250	200
10199	EFH (C30 - C40)	n.a.	3,800		83	250	200
10199	EFH (C8-C11)	n.a.	83	U	83	250	200
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,500		6.25	20.7	1
07914	Boron	7440-42-8	1.41	J	0.372	5.17	1
01650	Calcium	7440-70-2	2,810		2.58	20.7	1
01654	Iron	7439-89-6	16,800		2.70	20.7	1
01656	Lithium	7439-93-2	22.3		0.64	2.1	1
01657	Magnesium	7439-95-4	3,490		0.455	10.3	1
06958	Manganese	7439-96-5	313		0.0372	0.517	1
10145	Phosphorus	7723-14-0	432		0.362	10.3	1
01662	Potassium	7440-09-7	2,860		11.7	51.7	1
01667	Sodium	7440-23-5	81.0	J	6.15	103	1
07968	Strontium	7440-24-6	21.0		0.0258	0.517	1
06969	Tin	7440-31-5	3.16	J	0.331	10.3	1
06970	Titanium	7440-32-6	902		0.0733	1.03	1
10146	Zirconium	7440-67-7	0.888	J	0.475	5.17	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.205		0.0757	0.205	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-303-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-303-SA6-SS-0.0-0.5

LLI Sample # SW 6346968
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:55

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0109 SDG#: DE201-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	4.52		0.0818	0.409	2
06126	Barium	7440-39-3	124		0.108	0.409	2
06127	Beryllium	7440-41-7	0.635		0.0164	0.102	2
06128	Cadmium	7440-43-9	1.43		0.0450	0.102	2
06131	Chromium	7440-47-3	17.7		0.123	0.409	2
06132	Cobalt	7440-48-4	5.86		0.0205	0.102	2
06133	Copper	7440-50-8	11.5		0.0818	0.409	2
06135	Lead	7439-92-1	44.1		0.0104	0.205	2
06138	Molybdenum	7439-98-7	0.944		0.0511	0.102	2
06139	Nickel	7440-02-0	13.4		0.102	0.409	2
06141	Selenium	7782-49-2	0.215	J	0.0593	0.409	2
06142	Silver	7440-22-4	0.197		0.0145	0.102	2
06145	Thallium	7440-28-0	0.301		0.0307	0.102	2
06148	Vanadium	7440-62-2	33.8		0.0225	0.102	2
06149	Zinc	7440-66-6	160		1.43	7.67	5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0263	J	0.0070	0.0993	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.70	J	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.38		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.2		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-303-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-303-SA6-SS-0.0-0.5

LLI Sample # SW 6346968
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:55

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0109 SDG#: DE201-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11206SLB026	08/10/2011 20:44	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11207SLE026	08/01/2011 15:38	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11207SLE026	07/27/2011 06:50	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11206SLB026	07/25/2011 19:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112060012A	07/27/2011 23:04	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/18/2011 04:31	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/18/2011 04:45	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060005A	07/27/2011 06:55	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112040007A	07/25/2011 11:05	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060005A	07/25/2011 14:45	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112060012A	07/25/2011 21:15	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112010028A	07/21/2011 20:47	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112000001A	07/20/2011 09:31	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112060019A	07/29/2011 03:53	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020039A	07/27/2011 22:34	Heather E Williams	200
11238	EFH Extraction - Soils	SW-846 3550B	1	112020039A	07/22/2011 17:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112060019A	07/26/2011 00:00	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112010028A	07/21/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112000001A	07/19/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112005708002	07/26/2011 04:36	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112005708002	07/26/2011 04:36	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112005708002	07/26/2011 04:36	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112005708002	07/26/2011 04:36	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112005708002	07/26/2011 04:36	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112005708002	07/26/2011 04:36	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112005708002	07/26/2011 04:36	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112005708002	07/26/2011 04:36	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112005708002	07/26/2011 04:36	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112005708002	07/26/2011 04:36	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112005708002	07/26/2011 04:36	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112005708002	07/26/2011 04:36	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112005708002	07/26/2011 04:36	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112005708002	07/26/2011 04:36	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112001026001A	07/25/2011 10:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112001026001A	07/25/2011 10:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112001026001D	07/25/2011 10:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112001026001A	07/25/2011 10:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112001026001A	07/25/2011 10:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112001026001A	07/25/2011 10:59	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-303-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-303-SA6-SS-0.0-0.5

LLI Sample # SW 6346968
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:55

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0109 SDG#: DE201-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	112001026001A	07/25/2011 10:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112001026001A	07/25/2011 10:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112001026001A	07/25/2011 10:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112001026001C	07/25/2011 10:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112001026001A	07/25/2011 10:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112001026001B	07/25/2011 10:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112001026001A	07/25/2011 10:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112001026001A	07/25/2011 10:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112001026001A	07/25/2011 10:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112001026001A	07/26/2011 01:17	David K Beck	5
00159	Mercury	SW-846 7471A	1	112005711002	07/20/2011 06:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112005708002	07/19/2011 22:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112001026001	07/19/2011 22:13	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112011026002	07/20/2011 11:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112005711002	07/20/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208495201A	07/30/2011 21:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206495201A	07/27/2011 20:03	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243203A	07/29/2011 15:03	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11208495201A	07/27/2011 21:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206495201A	07/25/2011 21:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039402A	07/26/2011 20:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243203A	07/27/2011 21:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-304-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-304-SA6-SS-0.0-0.5

LLI Sample # SW 6346969
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:14

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0110 SDG#: DE201-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	31	J	17	350	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-304-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-304-SA6-SS-0.0-0.5

LLI Sample # SW 6346969
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:14

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0110 SDG#: DE201-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.48	J	0.35	1.7	1
10138	Anthracene	120-12-7	2.1		0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	1.7	J	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	1.5	J	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	7.6		0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.99	J	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	7.5		0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	11	J	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	7.9	J	6.2	19	1
10138	Chrysene	218-01-9	9.3		0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	13		0.69	1.7	1
10138	Fluorene	86-73-7	1.5	J	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.83	J	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.81	J	0.69	1.7	1
10138	Naphthalene	91-20-3	1.1	J	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	5.6		0.69	1.7	1
10138	Pyrene	129-00-0	9.6		0.69	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.3	1
10401	2,4-DB	94-82-6	10	U	10	10	1
10401	Dicamba	1918-00-9	0.77	J	0.41	1.2	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	4.5		0.83	1.8	1
10401	MCPA	94-74-6	1,400	U	1,400	1,400	1
10401	MCPP (Mecoprop)	93-65-2	300	U	300	300	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

*=This limit was used in the evaluation of the final result

Sample Description: SL-304-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-304-SA6-SS-0.0-0.5

LLI Sample # SW 6346969
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:14

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0110 SDG#: DE201-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Reporting limits were raised for MCPP, MCPA, and 2,4-DB due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	3.3	J	0.82	3.5	1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35	1
01363	p,p-DDE	72-55-9	1.2		0.068	0.35	1
01363	p,p-DDT	50-29-3	5.4		0.34	1.8	5
01363	Delta BHC	319-86-8	0.057	U	0.057	0.17	1
01363	Dieldrin	60-57-1	0.23	U	0.23	0.35	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.26	U	0.26	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1
01363	Endrin	72-20-8	0.068	U	0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.52	U	0.52	0.52	1
01363	Endrin Ketone	53494-70-5	0.14	U	0.14	0.35	1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.072	U	0.072	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35	1
01363	Toxaphene	8001-35-2	34	U	34	34	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. The samples were injected after maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that endosulfan sulfate was detected in the rextract at .41 ug/kg. Reporting limits were raised due to interference from the sample matrix.						
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	5.5		1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	4.9		0.40	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-304-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-304-SA6-SS-0.0-0.5

LLI Sample # SW 6346969
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:14

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14420 Albemarle Point Place
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E0110 SDG#: DE201-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520	1
10501	Isopropanol	67-63-0	100	U	100	520	1
10501	Methanol	67-56-1	100	U	100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10	1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10	1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	8.3	U	8.3	25	20
10199	EFH (C15-C20)	n.a.	8.3	U	8.3	25	20
10199	EFH (C21-C30)	n.a.	140		8.3	25	20
10199	EFH (C30 - C40)	n.a.	490		8.3	25	20
10199	EFH (C8-C11)	n.a.	8.3	U	8.3	25	20
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,100		6.20	20.5	1
07914	Boron	7440-42-8	1.53	J	0.369	5.12	1
01650	Calcium	7440-70-2	2,830		2.56	20.5	1
01654	Iron	7439-89-6	16,700		2.68	20.5	1
01656	Lithium	7439-93-2	24.5		0.64	2.0	1
01657	Magnesium	7439-95-4	3,460		0.451	10.2	1
06958	Manganese	7439-96-5	331		0.0369	0.512	1
10145	Phosphorus	7723-14-0	439		0.359	10.2	1
01662	Potassium	7440-09-7	3,210		11.6	51.2	1
01667	Sodium	7440-23-5	74.1	J	6.10	102	1
07968	Strontium	7440-24-6	20.6		0.0256	0.512	1
06969	Tin	7440-31-5	2.76	J	0.328	10.2	1
06970	Titanium	7440-32-6	930		0.0728	1.02	1
10146	Zirconium	7440-67-7	1.30	J	0.471	5.12	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.161	J	0.0744	0.201	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-304-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-304-SA6-SS-0.0-0.5

LLI Sample # SW 6346969
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:14

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E0110 SDG#: DE201-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	3.59		0.0804	0.402	2
06126	Barium	7440-39-3	105		0.107	0.402	2
06127	Beryllium	7440-41-7	0.528		0.0161	0.101	2
06128	Cadmium	7440-43-9	0.574		0.0442	0.101	2
06131	Chromium	7440-47-3	14.8		0.121	0.402	2
06132	Cobalt	7440-48-4	4.81		0.0201	0.101	2
06133	Copper	7440-50-8	9.28		0.0804	0.402	2
06135	Lead	7439-92-1	27.5		0.0103	0.201	2
06138	Molybdenum	7439-98-7	0.665		0.0503	0.101	2
06139	Nickel	7440-02-0	10.9		0.101	0.402	2
06141	Selenium	7782-49-2	0.177	J	0.0583	0.402	2
06142	Silver	7440-22-4	0.0670	J	0.0143	0.101	2
06145	Thallium	7440-28-0	0.287		0.0302	0.101	2
06148	Vanadium	7440-62-2	28.3		0.0221	0.101	2
06149	Zinc	7440-66-6	135		0.563	3.02	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0275	J	0.0070	0.0999	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.82		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.4		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-304-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-304-SA6-SS-0.0-0.5

LLI Sample # SW 6346969
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:14

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14420 Albemarle Point Place
Suite 210
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E0110 SDG#: DE201-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11206SLB026	08/10/2011 21:09	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11207SLE026	08/02/2011 10:20	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11207SLE026	07/27/2011 06:50	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11206SLB026	07/25/2011 19:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112060012A	07/27/2011 23:32	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/18/2011 04:59	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/18/2011 05:14	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060005A	07/27/2011 19:23	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112040007A	07/25/2011 11:05	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060005A	07/25/2011 14:45	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112060012A	07/25/2011 21:15	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112010028A	07/21/2011 21:02	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112000001A	07/20/2011 09:44	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112060019A	07/28/2011 21:12	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020039A	07/27/2011 21:22	Heather E Williams	20
11238	EFH Extraction - Soils	SW-846 3550B	1	112020039A	07/22/2011 17:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112060019A	07/26/2011 00:00	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112010028A	07/21/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112000001A	07/19/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112005708002	07/26/2011 04:41	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112005708002	07/26/2011 04:41	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112005708002	07/26/2011 04:41	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112005708002	07/26/2011 04:41	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112005708002	07/26/2011 04:41	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112005708002	07/26/2011 04:41	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112005708002	07/26/2011 04:41	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112005708002	07/26/2011 04:41	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112005708002	07/26/2011 04:41	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112005708002	07/26/2011 04:41	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112005708002	07/26/2011 04:41	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112005708002	07/26/2011 04:41	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112005708002	07/26/2011 04:41	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112005708002	07/26/2011 04:41	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112001026001A	07/25/2011 11:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112001026001A	07/25/2011 11:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112001026001D	07/25/2011 11:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112001026001A	07/25/2011 11:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112001026001A	07/25/2011 11:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112001026001A	07/25/2011 11:02	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-304-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-304-SA6-SS-0.0-0.5

LLI Sample # SW 6346969
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:14

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0110 SDG#: DE201-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	112001026001A	07/25/2011 11:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112001026001A	07/25/2011 11:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112001026001A	07/25/2011 11:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112001026001C	07/25/2011 11:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112001026001A	07/25/2011 11:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112001026001B	07/25/2011 11:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112001026001A	07/25/2011 11:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112001026001A	07/25/2011 11:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112001026001A	07/25/2011 11:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112001026001A	07/25/2011 11:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112005711002	07/20/2011 06:41	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112005708002	07/19/2011 22:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112001026001	07/19/2011 22:13	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112011026002	07/20/2011 11:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112005711002	07/20/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208495201A	07/30/2011 21:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206495201A	07/27/2011 20:26	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243203A	07/29/2011 15:11	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11208495201A	07/27/2011 21:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206495201A	07/25/2011 21:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039402B	07/26/2011 20:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243203A	07/27/2011 21:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-286-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6346970
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0111 SDG#: DE201-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(b)fluoranthene	205-99-2	19	J	17	170	1
04688	Benzoic acid	65-85-0	170	U	170	500	1
04688	Benzyl alcohol	100-51-6	170	U	170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Chrysene	218-01-9	19	J	17	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Fluoranthene	206-44-0	35	J	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	500	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-286-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6346970
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0111 SDG#: DE201-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	500	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Pyrene	129-00-0	30	J	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7	1
10138	Acenaphthylene	208-96-8	0.57	J	0.34	1.7	1
10138	Anthracene	120-12-7	1.0	J	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	4.6		0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	4.5		0.67	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	4.0		0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	4.5		0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	7.3	J	6.1	18	1
10138	Di-n-butylphthalate	84-74-2	18	J	6.1	18	1
10138	Dibenz(a,h)anthracene	53-70-3	0.90	J	0.67	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.1	18	1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.1		0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7	1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18	1
10138	Phenanthrene	85-01-8	5.1		0.67	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	7.1	U	7.1	7.1	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	77	U	77	250	1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250	1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17	1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does						

Sample Description: SL-286-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6346970
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0111 SDG#: DE201-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised for 2,4-DB due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17	1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34	1
01363	p,p-DDE	72-55-9	1.0	U	1.0	1.0	1
01363	p,p-DDT	50-29-3	4.1		0.33	1.7	5
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17	1
01363	Dieldrin	60-57-1	1.2	U	1.2	1.2	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.13	U	0.13	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34	1
01363	Endrin	72-20-8	0.067	U	0.067	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.56	U	0.56	0.56	1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34	1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.16	U	0.16	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34	1
01363	Toxaphene	8001-35-2	20	U	20	20	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. The samples were injected after maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Reporting limits were raised due to interference from the sample matrix.						
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.0	U	5.0	17	5
10225	Aroclor 5442	12642-23-8	5.0	U	5.0	17	5
10225	Aroclor 5460	11126-42-4	33		5.0	17	5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.6	5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6	5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6	5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6	5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6	5
10225	PCB-1254	11097-69-1	29		1.7	8.6	5
10225	PCB-1260	11096-82-5	2.0	U	2.0	8.6	5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-286-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6346970
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0111 SDG#: DE201-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6	5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500	1
10501	Isopropanol	67-63-0	100	U	100	500	1
10501	Methanol	67-56-1	100	U	100	500	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10	1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10	1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2	1
10199	EFH (C15-C20)	n.a.	1.8		0.40	1.2	1
10199	EFH (C21-C30)	n.a.	11		0.40	1.2	1
10199	EFH (C30 - C40)	n.a.	31		0.40	1.2	1
10199	EFH (C8-C11)	n.a.	0.44	J	0.40	1.2	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,600		6.10	20.2	1
07914	Boron	7440-42-8	0.860	J	0.363	5.04	1
01650	Calcium	7440-70-2	2,360		2.52	20.2	1
01654	Iron	7439-89-6	19,400		2.63	20.2	1
01656	Lithium	7439-93-2	21.7		0.63	2.0	1
01657	Magnesium	7439-95-4	4,140		0.444	10.1	1
06958	Manganese	7439-96-5	267		0.0363	0.504	1
10145	Phosphorus	7723-14-0	322		0.353	10.1	1
01662	Potassium	7440-09-7	2,750		11.4	50.4	1
01667	Sodium	7440-23-5	63.9	J	6.00	101	1
07968	Strontium	7440-24-6	12.5		0.0252	0.504	1
06969	Tin	7440-31-5	2.55	J	0.323	10.1	1
06970	Titanium	7440-32-6	963		0.0716	1.01	1
10146	Zirconium	7440-67-7	2.48	J	0.464	5.04	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.179	J	0.0732	0.198	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-286-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6346970
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0111 SDG#: DE201-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.23		0.0791	0.396	2
06126	Barium	7440-39-3	97.4		0.105	0.396	2
06127	Beryllium	7440-41-7	0.638		0.0158	0.0989	2
06128	Cadmium	7440-43-9	0.178		0.0435	0.0989	2
06131	Chromium	7440-47-3	19.3		0.119	0.396	2
06132	Cobalt	7440-48-4	6.90		0.0198	0.0989	2
06133	Copper	7440-50-8	10.7		0.0791	0.396	2
06135	Lead	7439-92-1	16.9		0.0101	0.198	2
06138	Molybdenum	7439-98-7	0.705		0.0495	0.0989	2
06139	Nickel	7440-02-0	13.4		0.0989	0.396	2
06141	Selenium	7782-49-2	0.126	J	0.0574	0.396	2
06142	Silver	7440-22-4	0.0739	J	0.0140	0.0989	2
06145	Thallium	7440-28-0	0.316		0.0297	0.0989	2
06148	Vanadium	7440-62-2	38.7		0.0218	0.0989	2
06149	Zinc	7440-66-6	80.4		0.554	2.97	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0314	J	0.0067	0.0957	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.66	J	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.01		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.88		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Analysis Report

Sample Description: SL-286-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6346970
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0111 SDG#: DE201-11BKG

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11206SLB026	08/10/2011 16:09	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11207SLE026	08/01/2011 09:17	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11207SLE026	07/27/2011 06:50	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11206SLB026	07/25/2011 19:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112060012A	07/27/2011 17:06	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/18/2011 06:54	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/18/2011 07:08	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060005A	07/27/2011 07:32	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112040007A	07/25/2011 11:05	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060005A	07/25/2011 14:45	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112060012A	07/25/2011 21:15	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112010028A	07/21/2011 21:17	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112000001A	07/20/2011 09:56	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112060019A	07/28/2011 21:57	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020039A	07/27/2011 00:34	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112020039A	07/22/2011 17:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112060019A	07/26/2011 00:00	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112010028A	07/21/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112000001A	07/19/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112005708002	07/26/2011 03:28	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112005708002	07/26/2011 03:28	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112005708002	07/26/2011 03:28	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112005708002	07/26/2011 03:28	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112005708002	07/26/2011 03:28	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112005708002	07/26/2011 03:28	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112005708002	07/26/2011 03:28	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112005708002	07/26/2011 03:28	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112005708002	07/26/2011 03:28	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112005708002	07/26/2011 03:28	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112005708002	07/26/2011 03:28	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112005708002	07/26/2011 03:28	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-286-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6346970
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0111 SDG#: DE201-11BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112005708002	07/26/2011 03:28	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112005708002	07/26/2011 03:28	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112001026001A	07/25/2011 10:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112001026001A	07/25/2011 10:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112001026001D	07/25/2011 10:08	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112001026001A	07/25/2011 10:08	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112001026001A	07/26/2011 01:08	David K Beck	2
06131	Chromium	SW-846 6020	1	112001026001A	07/25/2011 10:08	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112001026001A	07/25/2011 10:08	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112001026001A	07/25/2011 10:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112001026001A	07/25/2011 10:08	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112001026001C	07/25/2011 10:08	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112001026001A	07/25/2011 10:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112001026001B	07/25/2011 10:08	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112001026001A	07/25/2011 10:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112001026001A	07/25/2011 10:08	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112001026001A	07/25/2011 10:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112001026001A	07/25/2011 10:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112005711002	07/20/2011 06:42	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112005708002	07/19/2011 22:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112001026001	07/19/2011 22:13	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112011026002	07/20/2011 11:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112005711002	07/20/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208495201B	07/30/2011 21:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206495201A	07/27/2011 15:50	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243203A	07/29/2011 15:32	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11208495201B	07/27/2011 21:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206495201A	07/25/2011 21:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039402B	07/26/2011 20:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243203A	07/27/2011 21:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-286-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6346971
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0111 SDG#: DE201-11MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		17	170	1
04688	Acenaphthylene	208-96-8	1,700		17	170	1
04688	Aniline	62-53-3	830		170	500	1
04688	Anthracene	120-12-7	1,700		17	170	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(a)anthracene	56-55-3	1,500		17	170	1
04688	Benzo(a)pyrene	50-32-8	1,700		17	170	1
04688	Benzo(b)fluoranthene	205-99-2	1,800		17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	1,900		17	170	1
04688	Benzo(k)fluoranthene	207-08-9	1,700		17	170	1
04688	Benzoic acid	65-85-0	230	J	170	500	1
04688	Benzyl alcohol	100-51-6	1,500		170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		17	170	1
04688	Butylbenzylphthalate	85-68-7	1,600		17	170	1
04688	Di-n-butylphthalate	84-74-2	1,600		17	170	1
04688	Carbazole	86-74-8	1,600		17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	1,600		34	170	1
04688	4-Chloroaniline	106-47-8	740		67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,500		17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,500		17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500		17	170	1
04688	2-Chloronaphthalene	91-58-7	1,500		17	170	1
04688	2-Chlorophenol	95-57-8	1,600		17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600		34	170	1
04688	Chrysene	218-01-9	1,600		17	170	1
04688	Dibenz(a,h)anthracene	53-70-3	1,900		17	170	1
04688	Dibenzofuran	132-64-9	1,500		17	170	1
04688	1,2-Dichlorobenzene	95-50-1	1,400		17	170	1
04688	1,3-Dichlorobenzene	541-73-1	1,400		17	170	1
04688	1,4-Dichlorobenzene	106-46-7	1,500		17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	960		100	340	1
04688	2,4-Dichlorophenol	120-83-2	1,600		17	170	1
04688	Diethylphthalate	84-66-2	1,600		17	170	1
04688	2,4-Dimethylphenol	105-67-9	1,600		34	170	1
04688	3,5-Dimethylphenol	108-68-9	1,700		34	170	1
04688	Dimethylphthalate	131-11-3	1,600		17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	830		170	500	1
04688	2,4-Dinitrophenol	51-28-5	490	J	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	1,500		34	170	1
04688	2,6-Dinitrotoluene	606-20-2	1,600		17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	1,700		17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,600		17	340	1
04688	Fluoranthene	206-44-0	1,600		17	170	1
04688	Fluorene	86-73-7	1,600		17	170	1
04688	Hexachlorobenzene	118-74-1	1,700		17	170	1
04688	Hexachlorobutadiene	87-68-3	1,700		67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	2,300		170	500	1
04688	Hexachloroethane	67-72-1	1,500		17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900		17	170	1
04688	Isophorone	78-59-1	1,500		17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-286-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6346971
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0111 SDG#: DE201-11MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,600	17	170	1
04688	2-Methylnaphthalene	91-57-6	1,600	17	170	1
04688	2-Methylphenol	95-48-7	1,600	34	170	1
04688	4-Methylphenol	106-44-5	1,500	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,600	17	170	1
04688	2-Nitroaniline	88-74-4	1,600	17	170	1
04688	3-Nitroaniline	99-09-2	1,400	34	170	1
04688	4-Nitroaniline	100-01-6	1,100	67	170	1
04688	Nitrobenzene	98-95-3	1,600	17	170	1
04688	2-Nitrophenol	88-75-5	1,500	17	170	1
04688	4-Nitrophenol	100-02-7	1,200	170	500	1
04688	N-Nitrosodimethylamine	62-75-9	1,500	34	170	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,700	17	170	1
04688	Pentachlorophenol	87-86-5	1,300	170	500	1
04688	Phenanthrene	85-01-8	1,600	17	170	1
04688	Phenol	108-95-2	1,500	17	170	1
04688	Pyrene	129-00-0	1,600	17	170	1
04688	Tetralin	119-64-2	1,900	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.					
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	1,600	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	1,600	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	32	0.67	1.7	1
10138	Acenaphthylene	208-96-8	31	0.34	1.7	1
10138	Anthracene	120-12-7	35	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	43	0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	37	0.67	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	43	0.67	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	26	0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	32	0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	39	6.1	18	1
10138	Di-n-butylphthalate	84-74-2	41	6.1	18	1
10138	Chrysene	218-01-9	49	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	27	0.67	1.7	1
10138	Diethylphthalate	84-66-2	36	6.1	18	1
10138	Dimethylphthalate	131-11-3	33	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	62	6.1	18	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-286-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6346971
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0111 SDG#: DE201-11MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	65		0.67	1.7	1
10138	Fluorene	86-73-7	33		0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	30		0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	30		0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	30		0.67	1.7	1
10138	Naphthalene	91-20-3	30		0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	31		0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	34		6.1	18	1
10138	Phenanthrene	85-01-8	43		0.67	1.7	1
10138	Pyrene	129-00-0	57		0.67	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	8.0		1.2	3.6	1
10401	Dalapon	75-99-0	12		4.4	9.1	1
10401	2,4-DB	94-82-6	9.5		0.63	1.7	1
10401	Dicamba	1918-00-9	0.42	J	0.40	1.2	1
10401	Dinoseb	88-85-7	1.2	J	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	3.5		0.81	1.7	1
10401	MCPA	94-74-6	310		77	250	1
10401	MCPP (Mecoprop)	93-65-2	940		76	250	1
10401	2,4,5-T	93-76-5	0.36		0.083	0.17	1
10401	2,4,5-TP	93-72-1	0.54		0.076	0.17	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.29		0.067	0.17	1
01363	Alpha BHC	319-84-6	0.26		0.034	0.17	1
01363	Beta BHC	319-85-7	0.15	J	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.27		0.034	0.17	1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4	1
01363	p,p-DDD	72-54-8	0.66		0.067	0.34	1
01363	p,p-DDE	72-55-9	1.4		0.067	0.34	1
01363	p,p-DDT	50-29-3	5.2		0.067	0.34	1
01363	Delta BHC	319-86-8	0.36		0.036	0.17	1
01363	Dieldrin	60-57-1	1.2		0.067	0.34	1
01363	Endosulfan I	959-98-8	0.24		0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.53		0.067	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.90		0.067	0.34	1
01363	Endrin	72-20-8	0.067	U	0.067	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.80		0.067	0.34	1
01363	Endrin Ketone	53494-70-5	0.86		0.067	0.34	1
01363	Heptachlor	76-44-8	0.29		0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.43		0.034	0.17	1
01363	Methoxychlor	72-43-5	4.5		0.34	1.7	1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34	1
01363	Toxaphene	8001-35-2	24	U	24	24	1

Various analytes in the calibration check standards bracketing the sample were

Sample Description: SL-286-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6346971
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0111 SDG#: DE201-11MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	outside the acceptance criteria. The samples were injected after maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.0	U	5.0	17	5
10225	Aroclor 5442	12642-23-8	5.0	U	5.0	17	5
10225	Aroclor 5460	11126-42-4	23		5.0	17	5
10225	PCB-1016	12674-11-2	22		1.7	8.6	5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6	5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6	5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6	5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6	5
10225	PCB-1254	11097-69-1	42		1.7	8.6	5
10225	PCB-1260	11096-82-5	25		2.0	8.6	5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6	5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6	5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,300		100	500	1
10501	Isopropanol	67-63-0	2,200		100	500	1
10501	Methanol	67-56-1	2,200		100	500	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	30		5.0	10	1
08283	Ethylene glycol	107-21-1	80		5.0	10	1
08283	Propylene glycol	57-55-6	100		5.0	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.2	J	1.1	3.5	1
10318	o-Terphenyl	84-15-1	1.7	J	1.5	3.5	1
10318	p-Terphenyl	92-94-4	1.4	J	1.3	3.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	1.1	J	0.40	1.2	1
10199	EFH (C15-C20)	n.a.	3.4		0.40	1.2	1
10199	EFH (C21-C30)	n.a.	16		0.40	1.2	1
10199	EFH (C30 - C40)	n.a.	33		0.40	1.2	1
10199	EFH (C8-C11)	n.a.	0.95	J	0.40	1.2	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-286-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6346971
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E0111 SDG#: DE201-11MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,700	5.93	19.6	1
07914	Boron	7440-42-8	194	0.353	4.90	1
01650	Calcium	7440-70-2	2,910	2.45	19.6	1
01654	Iron	7439-89-6	20,500	2.56	19.6	1
01656	Lithium	7439-93-2	126	0.61	2.0	1
01657	Magnesium	7439-95-4	4,440	0.431	9.79	1
06958	Manganese	7439-96-5	296	0.0353	0.490	1
10145	Phosphorus	7723-14-0	418	0.343	9.79	1
01662	Potassium	7440-09-7	3,870	11.1	49.0	1
01667	Sodium	7440-23-5	1,040	5.83	97.9	1
07968	Strontium	7440-24-6	112	0.0245	0.490	1
06969	Tin	7440-31-5	352	0.313	9.79	1
06970	Titanium	7440-32-6	1,210	0.0695	0.979	1
10146	Zirconium	7440-67-7	96.5	0.451	4.90	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.541	0.0739	0.200	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	8.41	0.0799	0.400	2
06126	Barium	7440-39-3	85.4	0.106	0.400	2
06127	Beryllium	7440-41-7	1.26	0.0160	0.0999	2
06128	Cadmium	7440-43-9	1.17	0.0440	0.0999	2
06131	Chromium	7440-47-3	25.6	0.120	0.400	2
06132	Cobalt	7440-48-4	53.6	0.0200	0.0999	2
06133	Copper	7440-50-8	18.0	0.0799	0.400	2
06135	Lead	7439-92-1	15.9	0.0102	0.200	2
06138	Molybdenum	7439-98-7	10.7	0.0499	0.0999	2
06139	Nickel	7440-02-0	20.5	0.0999	0.400	2
06141	Selenium	7782-49-2	2.06	0.0579	0.400	2
06142	Silver	7440-22-4	10.4	0.0142	0.0999	2
06145	Thallium	7440-28-0	0.621	0.0300	0.0999	2
06148	Vanadium	7440-62-2	41.8	0.0220	0.0999	2
06149	Zinc	7440-66-6	72.7	0.559	3.00	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.210	0.0069	0.0987	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.1	0.80	1.0	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	518	9.1	30.3	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	35.3	1.0	5.0	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-286-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6346971
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

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E0111 SDG#: DE201-11MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.88	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11206SLB026	08/10/2011 16:33	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11207SLE026	08/01/2011 09:49	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11207SLE026	07/27/2011 06:50	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11206SLB026	07/25/2011 19:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112060012A	07/27/2011 17:33	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/18/2011 07:23	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060005A	07/27/2011 07:51	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112040007A	07/25/2011 11:05	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060005A	07/25/2011 14:45	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112060012A	07/25/2011 21:15	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112010028A	07/21/2011 21:32	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112000001A	07/20/2011 10:47	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112060019A	07/28/2011 23:26	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020039A	07/27/2011 01:17	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112020039A	07/22/2011 17:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112060019A	07/26/2011 00:00	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112010028A	07/21/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112000001A	07/19/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112005708002	07/26/2011 03:42	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112005708002	07/26/2011 03:42	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112005708002	07/26/2011 03:42	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112005708002	07/26/2011 03:42	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112005708002	07/26/2011 03:42	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-286-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6346971
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E0111 SDG#: DE201-11MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	112005708002	07/26/2011 03:42	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112005708002	07/26/2011 03:42	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112005708002	07/26/2011 03:42	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112005708002	07/26/2011 03:42	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112005708002	07/26/2011 03:42	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112005708002	07/26/2011 03:42	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112005708002	07/26/2011 03:42	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112005708002	07/26/2011 03:42	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112005708002	07/26/2011 03:42	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112001026001A	07/25/2011 10:17	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112001026001A	07/25/2011 10:17	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112001026001D	07/25/2011 10:17	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112001026001A	07/25/2011 10:17	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112001026001A	07/25/2011 10:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112001026001A	07/25/2011 10:17	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112001026001A	07/25/2011 10:17	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112001026001A	07/25/2011 10:17	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112001026001A	07/25/2011 10:17	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112001026001C	07/25/2011 10:17	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112001026001A	07/25/2011 10:17	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112001026001B	07/25/2011 10:17	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112001026001A	07/25/2011 10:17	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112001026001A	07/25/2011 10:17	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112001026001A	07/25/2011 10:17	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112001026001A	07/25/2011 10:17	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112005711002	07/20/2011 06:46	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112005708002	07/19/2011 22:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112001026001	07/19/2011 22:13	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112011026002	07/20/2011 11:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112005711002	07/20/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208495201B	07/30/2011 22:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206495201A	07/28/2011 23:45	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243203A	07/29/2011 15:47	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11208495201B	07/27/2011 21:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206495201A	07/25/2011 21:00	James S Mathiot	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243203A	07/27/2011 21:00	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-286-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6346972
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0111 SDG#: DE201-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		17	170	1
04688	Acenaphthylene	208-96-8	1,700		17	170	1
04688	Aniline	62-53-3	860		170	500	1
04688	Anthracene	120-12-7	1,700		17	170	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(a)anthracene	56-55-3	1,600		17	170	1
04688	Benzo(a)pyrene	50-32-8	1,700		17	170	1
04688	Benzo(b)fluoranthene	205-99-2	1,800		17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		17	170	1
04688	Benzo(k)fluoranthene	207-08-9	1,600		17	170	1
04688	Benzoic acid	65-85-0	400	J	170	500	1
04688	Benzyl alcohol	100-51-6	1,500		170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		17	170	1
04688	Butylbenzylphthalate	85-68-7	1,600		17	170	1
04688	Di-n-butylphthalate	84-74-2	1,600		17	170	1
04688	Carbazole	86-74-8	1,600		17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	1,500		34	170	1
04688	4-Chloroaniline	106-47-8	670		67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,500		17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,500		17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		17	170	1
04688	2-Chloronaphthalene	91-58-7	1,500		17	170	1
04688	2-Chlorophenol	95-57-8	1,700		17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600		34	170	1
04688	Chrysene	218-01-9	1,600		17	170	1
04688	Dibenz(a,h)anthracene	53-70-3	1,800		17	170	1
04688	Dibenzofuran	132-64-9	1,600		17	170	1
04688	1,2-Dichlorobenzene	95-50-1	1,500		17	170	1
04688	1,3-Dichlorobenzene	541-73-1	1,500		17	170	1
04688	1,4-Dichlorobenzene	106-46-7	1,500		17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100		100	340	1
04688	2,4-Dichlorophenol	120-83-2	1,600		17	170	1
04688	Diethylphthalate	84-66-2	1,600		17	170	1
04688	2,4-Dimethylphenol	105-67-9	1,600		34	170	1
04688	3,5-Dimethylphenol	108-68-9	1,600		34	170	1
04688	Dimethylphthalate	131-11-3	1,600		17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,000		170	500	1
04688	2,4-Dinitrophenol	51-28-5	860	J	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	1,500		34	170	1
04688	2,6-Dinitrotoluene	606-20-2	1,600		17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	1,700		17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,600		17	340	1
04688	Fluoranthene	206-44-0	1,700		17	170	1
04688	Fluorene	86-73-7	1,600		17	170	1
04688	Hexachlorobenzene	118-74-1	1,800		17	170	1
04688	Hexachlorobutadiene	87-68-3	1,600		67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	2,400		170	500	1
04688	Hexachloroethane	67-72-1	1,500		17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800		17	170	1
04688	Isophorone	78-59-1	1,500		17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-286-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6346972
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0111 SDG#: DE201-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,600	17	170	1
04688	2-Methylnaphthalene	91-57-6	1,600	17	170	1
04688	2-Methylphenol	95-48-7	1,700	34	170	1
04688	4-Methylphenol	106-44-5	1,600	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,600	17	170	1
04688	2-Nitroaniline	88-74-4	1,700	17	170	1
04688	3-Nitroaniline	99-09-2	1,400	34	170	1
04688	4-Nitroaniline	100-01-6	1,100	67	170	1
04688	Nitrobenzene	98-95-3	1,600	17	170	1
04688	2-Nitrophenol	88-75-5	1,500	17	170	1
04688	4-Nitrophenol	100-02-7	1,300	170	500	1
04688	N-Nitrosodimethylamine	62-75-9	1,500	34	170	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,700	17	170	1
04688	Pentachlorophenol	87-86-5	1,400	170	500	1
04688	Phenanthrene	85-01-8	1,700	17	170	1
04688	Phenol	108-95-2	1,600	17	170	1
04688	Pyrene	129-00-0	1,700	17	170	1
04688	Tetralin	119-64-2	1,500	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.					
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	1,600	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	1,600	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	32	0.67	1.7	1
10138	Acenaphthylene	208-96-8	33	0.34	1.7	1
10138	Anthracene	120-12-7	35	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	38	0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	31	0.67	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	37	0.67	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	22	0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	30	0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	38	6.1	18	1
10138	Di-n-butylphthalate	84-74-2	43	6.1	18	1
10138	Chrysene	218-01-9	42	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	24	0.67	1.7	1
10138	Diethylphthalate	84-66-2	37	6.1	18	1
10138	Dimethylphthalate	131-11-3	34	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	53	6.1	18	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-286-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6346972
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0111 SDG#: DE201-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	55		0.67	1.7	1
10138	Fluorene	86-73-7	34		0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	25		0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	30		0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	30		0.67	1.7	1
10138	Naphthalene	91-20-3	31		0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	31		0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	34		6.1	18	1
10138	Phenanthrene	85-01-8	38		0.67	1.7	1
10138	Pyrene	129-00-0	45		0.67	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	7.7		1.2	3.6	1
10401	Dalapon	75-99-0	12		4.4	9.1	1
10401	2,4-DB	94-82-6	12		0.63	1.7	1
10401	Dicamba	1918-00-9	0.43	J	0.40	1.2	1
10401	Dinoseb	88-85-7	1.5	J	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	330		77	250	1
10401	MCPP (Mecoprop)	93-65-2	1,000		76	250	1
10401	2,4,5-T	93-76-5	0.39		0.083	0.17	1
10401	2,4,5-TP	93-72-1	0.58		0.076	0.17	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.29		0.067	0.17	1
01363	Alpha BHC	319-84-6	0.27		0.034	0.17	1
01363	Beta BHC	319-85-7	0.25		0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.29		0.034	0.17	1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4	1
01363	p,p-DDD	72-54-8	0.73		0.067	0.34	1
01363	p,p-DDE	72-55-9	1.4		0.067	0.34	1
01363	p,p-DDT	50-29-3	5.7		0.067	0.34	1
01363	Delta BHC	319-86-8	0.37		0.036	0.17	1
01363	Dieldrin	60-57-1	0.90		0.067	0.34	1
01363	Endosulfan I	959-98-8	0.21		0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.59		0.067	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.98		0.067	0.34	1
01363	Endrin	72-20-8	0.067	U	0.067	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.87		0.067	0.34	1
01363	Endrin Ketone	53494-70-5	0.56		0.067	0.34	1
01363	Heptachlor	76-44-8	0.28		0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.43		0.034	0.17	1
01363	Methoxychlor	72-43-5	4.6		0.34	1.7	1
01363	Mirex	2385-85-5	0.14	J	0.067	0.34	1
01363	Toxaphene	8001-35-2	26	U	26	26	1
	Various analytes in the calibration check standards bracketing the sample were						

Sample Description: SL-286-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6346972
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0111 SDG#: DE201-11MSD

outside the acceptance criteria. The samples were injected after maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The LCS data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.0	U	5.0	17	5
10225	Aroclor 5442	12642-23-8	5.0	U	5.0	17	5
10225	Aroclor 5460	11126-42-4	27		5.0	17	5
10225	PCB-1016	12674-11-2	19		1.7	8.6	5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6	5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6	5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6	5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6	5
10225	PCB-1254	11097-69-1	27		1.7	8.6	5
10225	PCB-1260	11096-82-5	33		2.0	8.6	5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6	5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6	5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,300		100	500	1
10501	Isopropanol	67-63-0	2,200		100	500	1
10501	Methanol	67-56-1	2,200		100	500	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	49		5.0	10	1
08283	Ethylene glycol	107-21-1	100		5.0	10	1
08283	Propylene glycol	57-55-6	130		5.0	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.3	J	1.3	3.5	1
10318	o-Terphenyl	84-15-1	1.7	J	1.5	3.5	1
10318	p-Terphenyl	92-94-4	1.4	J	1.4	3.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	1.1	J	0.40	1.2	1
10199	EFH (C15-C20)	n.a.	3.6		0.40	1.2	1
10199	EFH (C21-C30)	n.a.	15		0.40	1.2	1
10199	EFH (C30 - C40)	n.a.	37		0.40	1.2	1
10199	EFH (C8-C11)	n.a.	0.98	J	0.40	1.2	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-286-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6346972
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0111 SDG#: DE201-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,000	5.98	19.8	1
07914	Boron	7440-42-8	193	0.356	4.95	1
01650	Calcium	7440-70-2	3,380	2.47	19.8	1
01654	Iron	7439-89-6	18,300	2.58	19.8	1
01656	Lithium	7439-93-2	124	0.61	2.0	1
01657	Magnesium	7439-95-4	4,320	0.435	9.89	1
06958	Manganese	7439-96-5	306	0.0356	0.495	1
10145	Phosphorus	7723-14-0	412	0.346	9.89	1
01662	Potassium	7440-09-7	3,740	11.2	49.5	1
01667	Sodium	7440-23-5	1,030	5.89	98.9	1
07968	Strontium	7440-24-6	114	0.0247	0.495	1
06969	Tin	7440-31-5	357	0.317	9.89	1
06970	Titanium	7440-32-6	1,130	0.0702	0.989	1
10146	Zirconium	7440-67-7	98.3	0.455	4.95	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.793	0.0732	0.198	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	10.9	0.0791	0.396	2
06126	Barium	7440-39-3	114	0.105	0.396	2
06127	Beryllium	7440-41-7	1.69	0.0158	0.0989	2
06128	Cadmium	7440-43-9	1.57	0.0435	0.0989	2
06131	Chromium	7440-47-3	32.2	0.119	0.396	2
06132	Cobalt	7440-48-4	67.6	0.0198	0.0989	2
06133	Copper	7440-50-8	24.3	0.0791	0.396	2
06135	Lead	7439-92-1	21.0	0.0101	0.198	2
06138	Molybdenum	7439-98-7	13.6	0.0495	0.0989	2
06139	Nickel	7440-02-0	27.0	0.0989	0.396	2
06141	Selenium	7782-49-2	2.53	0.0574	0.396	2
06142	Silver	7440-22-4	12.8	0.0140	0.0989	2
06145	Thallium	7440-28-0	0.814	0.0297	0.0989	2
06148	Vanadium	7440-62-2	54.0	0.0218	0.0989	2
06149	Zinc	7440-66-6	92.9	0.554	2.97	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.202	0.0070	0.100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	0.88	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-286-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6346972
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0111 SDG#: DE201-11MSD

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11206SLB026	08/10/2011 16:59	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11207SLE026	08/01/2011 10:21	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11207SLE026	07/27/2011 06:50	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11206SLB026	07/25/2011 19:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112060012A	07/27/2011 18:01	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/18/2011 07:37	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060005A	07/27/2011 08:09	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112040007A	07/25/2011 11:05	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060005A	07/25/2011 14:45	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112060012A	07/25/2011 21:15	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112010028A	07/21/2011 21:47	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112000001A	07/20/2011 11:00	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112060019A	07/29/2011 00:10	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020039A	07/27/2011 02:00	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112020039A	07/22/2011 17:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112060019A	07/26/2011 00:00	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112010028A	07/21/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112000001A	07/19/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112005708002	07/26/2011 03:46	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112005708002	07/26/2011 03:46	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112005708002	07/26/2011 03:46	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112005708002	07/26/2011 03:46	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112005708002	07/26/2011 03:46	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112005708002	07/26/2011 03:46	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112005708002	07/26/2011 03:46	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112005708002	07/26/2011 03:46	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112005708002	07/26/2011 03:46	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112005708002	07/26/2011 03:46	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112005708002	07/26/2011 03:46	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112005708002	07/26/2011 03:46	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112005708002	07/26/2011 03:46	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-286-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6346972
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0111 SDG#: DE201-11MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112005708002	07/26/2011 03:46	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112001026001A	07/25/2011 10:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112001026001A	07/25/2011 10:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112001026001D	07/25/2011 10:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112001026001A	07/25/2011 10:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112001026001A	07/25/2011 10:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112001026001A	07/25/2011 10:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112001026001A	07/25/2011 10:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112001026001A	07/25/2011 10:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112001026001A	07/25/2011 10:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112001026001C	07/25/2011 10:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112001026001A	07/25/2011 10:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112001026001B	07/25/2011 10:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112001026001A	07/25/2011 10:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112001026001A	07/25/2011 10:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112001026001A	07/25/2011 10:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112001026001A	07/25/2011 10:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112005711002	07/20/2011 06:47	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112005708002	07/19/2011 22:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112001026001	07/19/2011 22:13	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112011026002	07/20/2011 11:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112005711002	07/20/2011 02:00	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-286-SA6-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6346973
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0111 SDG#: DE201-11DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		5.93	19.6	1
07914	Boron	7440-42-8	1.08	J	0.353	4.90	1
01650	Calcium	7440-70-2	2,500		2.45	19.6	1
01654	Iron	7439-89-6	20,800		2.56	19.6	1
01656	Lithium	7439-93-2	23.1		0.61	2.0	1
01657	Magnesium	7439-95-4	4,310		0.431	9.79	1
06958	Manganese	7439-96-5	258		0.0353	0.490	1
10145	Phosphorus	7723-14-0	339		0.343	9.79	1
01662	Potassium	7440-09-7	2,870		11.1	49.0	1
01667	Sodium	7440-23-5	65.2	J	5.83	97.9	1
07968	Strontium	7440-24-6	13.1		0.0245	0.490	1
06969	Tin	7440-31-5	2.45	J	0.313	9.79	1
06970	Titanium	7440-32-6	1,020		0.0695	0.979	1
10146	Zirconium	7440-67-7	2.00	J	0.451	4.90	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.222		0.0718	0.194	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.4		0.0776	0.388	2
06126	Barium	7440-39-3	121		0.103	0.388	2
06127	Beryllium	7440-41-7	0.722		0.0155	0.0970	2
06128	Cadmium	7440-43-9	0.251		0.0427	0.0970	2
06131	Chromium	7440-47-3	26.7		0.116	0.388	2
06132	Cobalt	7440-48-4	8.69		0.0194	0.0970	2
06133	Copper	7440-50-8	13.2		0.0776	0.388	2
06135	Lead	7439-92-1	20.3		0.0099	0.194	2
06138	Molybdenum	7439-98-7	0.900		0.0485	0.0970	2
06139	Nickel	7440-02-0	16.1		0.0970	0.388	2
06141	Selenium	7782-49-2	0.161	J	0.0563	0.388	2
06142	Silver	7440-22-4	0.0630	J	0.0138	0.0970	2
06145	Thallium	7440-28-0	0.361		0.0291	0.0970	2
06148	Vanadium	7440-62-2	47.7		0.0213	0.0970	2
06149	Zinc	7440-66-6	95.8		0.543	2.91	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0423	J	0.0070	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.68	J	0.20	1.0	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-286-SA6-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6346973
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0111 SDG#: DE201-11DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.04	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11626	28a Moisture Content by 160.3	n.a.	0.87	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
11625	Moisture Content by 160.3	n.a.	0.88	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112005708002	07/26/2011 03:37	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112005708002	07/26/2011 03:37	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112005708002	07/26/2011 03:37	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112005708002	07/26/2011 03:37	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112005708002	07/26/2011 03:37	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112005708002	07/26/2011 03:37	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112005708002	07/26/2011 03:37	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112005708002	07/26/2011 03:37	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112005708002	07/26/2011 03:37	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112005708002	07/26/2011 03:37	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112005708002	07/26/2011 03:37	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112005708002	07/26/2011 03:37	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112005708002	07/26/2011 03:37	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112005708002	07/26/2011 03:37	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112001026001A	07/25/2011 10:14	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112001026001A	07/25/2011 10:14	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112001026001D	07/25/2011 10:14	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112001026001A	07/25/2011 10:14	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112001026001A	07/25/2011 10:14	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112001026001A	07/25/2011 10:14	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112001026001A	07/25/2011 10:14	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112001026001A	07/25/2011 10:14	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112001026001A	07/25/2011 10:14	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112001026001C	07/25/2011 10:14	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-286-SA6-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6346973
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0111 SDG#: DE201-11DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06139	Nickel	SW-846 6020	1	112001026001A	07/25/2011 10:14	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112001026001B	07/25/2011 10:14	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112001026001A	07/25/2011 10:14	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112001026001A	07/25/2011 10:14	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112001026001A	07/25/2011 10:14	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112001026001A	07/25/2011 10:14	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112005711002	07/20/2011 06:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112005708002	07/19/2011 22:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112001026001	07/19/2011 22:13	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112011026002	07/20/2011 11:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112005711002	07/20/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208495201B	07/30/2011 21:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206495201A	07/27/2011 16:13	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243203A	07/29/2011 16:30	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11208495201B	07/27/2011 21:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206495201A	07/25/2011 21:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039402B	07/26/2011 20:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243203A	07/27/2011 21:00	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP03-SA6-QC-071511 Soil
SSFL Area IV Collocated Soil Sampling
DUP03-SA6-QC-071511

LLI Sample # SW 6346974
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:59

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0112 SDG#: DE201-12FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	500	1
04688	Benzyl alcohol	100-51-6	170	U	170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Chrysene	218-01-9	20	J	17	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	17	340	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	500	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: DUP03-SA6-QC-071511 Soil
SSFL Area IV Collocated Soil Sampling
DUP03-SA6-QC-071511

LLI Sample # SW 6346974
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:59

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0112 SDG#: DE201-12FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	170	U	170	500	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Pyrene	129-00-0	31	J	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7	1
10138	Acenaphthylene	208-96-8	1.2	J	0.34	1.7	1
10138	Anthracene	120-12-7	2.3		0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	9.1		0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	8.0		0.67	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	23		0.67	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	2.9		0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	8.9		0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	8.2	J	6.0	18	1
10138	Di-n-butylphthalate	84-74-2	8.3	J	6.0	18	1
10138	Dibenz(a,h)anthracene	53-70-3	0.95	J	0.67	1.7	1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18	1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18	1
10138	Fluoranthene	206-44-0	36		0.67	1.7	1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.0		0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7	1
10138	Naphthalene	91-20-3	0.68	J	0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18	1
10138	Phenanthrene	85-01-8	7.8		0.67	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.1	U	1.1	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0	1
10401	2,4-DB	94-82-6	6.0	U	6.0	6.0	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7	1
10401	MCPA	94-74-6	76	U	76	250	1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250	1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17	1
10401	2,4,5-TP	93-72-1	0.091	U	0.091	0.17	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						

*=This limit was used in the evaluation of the final result

Sample Description: DUP03-SA6-QC-071511 Soil
SSFL Area IV Collocated Soil Sampling
DUP03-SA6-QC-071511

LLI Sample # SW 6346974
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:59

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0112 SDG#: DE201-12FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Reporting limits were raised for 2,4,5-TP and 2,4-DB due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.050	U	0.050	0.17	1
01363	Chlordane	57-74-9	0.80	U	0.80	3.4	1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34	1
01363	p,p-DDE	72-55-9	0.83	U	0.83	0.83	1
01363	p,p-DDT	50-29-3	3.9		0.33	1.7	5
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17	1
01363	Dieldrin	60-57-1	1.1	U	1.1	1.1	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.14	U	0.14	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34	1
01363	Endrin	72-20-8	0.066	U	0.066	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.53	U	0.53	0.53	1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34	1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.13	U	0.13	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34	1
01363	Toxaphene	8001-35-2	20	U	20	20	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. The samples were injected after maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	24		1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	15		0.33	1.7	1
10225	PCB-1260	11096-82-5	7.2		0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP03-SA6-QC-071511 Soil
SSFL Area IV Collocated Soil Sampling
DUP03-SA6-QC-071511

LLI Sample # SW 6346974
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:59

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0112 SDG#: DE201-12FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	100	U	100	500	1
10501	Methanol	67-56-1	100	U	100	500	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10	1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10	1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.0	5
10199	EFH (C15-C20)	n.a.	2.3	J	2.0	6.0	5
10199	EFH (C21-C30)	n.a.	23		2.0	6.0	5
10199	EFH (C30 - C40)	n.a.	84		2.0	6.0	5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.0	5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,300		6.10	20.2	1
07914	Boron	7440-42-8	0.684	J	0.363	5.04	1
01650	Calcium	7440-70-2	2,690		2.52	20.2	1
01654	Iron	7439-89-6	21,000		2.63	20.2	1
01656	Lithium	7439-93-2	24.8		0.63	2.0	1
01657	Magnesium	7439-95-4	4,570		0.444	10.1	1
06958	Manganese	7439-96-5	271		0.0363	0.504	1
10145	Phosphorus	7723-14-0	385		0.353	10.1	1
01662	Potassium	7440-09-7	3,060		11.4	50.4	1
01667	Sodium	7440-23-5	69.9	J	6.00	101	1
07968	Strontium	7440-24-6	14.2		0.0252	0.504	1
06969	Tin	7440-31-5	2.52	J	0.323	10.1	1
06970	Titanium	7440-32-6	1,080		0.0716	1.01	1
10146	Zirconium	7440-67-7	2.08	J	0.464	5.04	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.180	J	0.0731	0.198	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.02		0.0791	0.395	2
06126	Barium	7440-39-3	101		0.105	0.395	2
06127	Beryllium	7440-41-7	0.649		0.0158	0.0988	2

*=This limit was used in the evaluation of the final result

Sample Description: DUP03-SA6-QC-071511 Soil
SSFL Area IV Collocated Soil Sampling
DUP03-SA6-QC-071511

LLI Sample # SW 6346974
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:59

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0112 SDG#: DE201-12FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.227		0.0435	0.0988	2
06131	Chromium	7440-47-3	20.1		0.119	0.395	2
06132	Cobalt	7440-48-4	8.70		0.0198	0.0988	2
06133	Copper	7440-50-8	11.2		0.0791	0.395	2
06135	Lead	7439-92-1	16.8		0.0101	0.198	2
06138	Molybdenum	7439-98-7	0.854		0.0494	0.0988	2
06139	Nickel	7440-02-0	13.8		0.0988	0.395	2
06141	Selenium	7782-49-2	0.134	J	0.0573	0.395	2
06142	Silver	7440-22-4	0.0695	J	0.0140	0.0988	2
06145	Thallium	7440-28-0	0.305		0.0297	0.0988	2
06148	Vanadium	7440-62-2	40.4		0.0217	0.0988	2
06149	Zinc	7440-66-6	81.5		0.554	2.97	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0339	J	0.0068	0.0970	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	0.99	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.66	J	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.95		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.81		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: DUP03-SA6-QC-071511 Soil
SSFL Area IV Collocated Soil Sampling
DUP03-SA6-QC-071511

LLI Sample # SW 6346974
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:59

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0112 SDG#: DE201-12FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11206SLB026	08/10/2011 21:34	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11207SLE026	08/01/2011 16:42	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11207SLE026	07/27/2011 06:50	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11206SLB026	07/25/2011 19:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112060012A	07/27/2011 23:59	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/18/2011 07:52	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/19/2011 09:39	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060005A	07/27/2011 08:28	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112040007A	07/25/2011 11:05	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060005A	07/25/2011 14:45	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112060012A	07/25/2011 21:15	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112010028A	07/21/2011 22:02	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112000001A	07/20/2011 10:09	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112060019A	07/29/2011 02:24	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020039A	07/27/2011 20:58	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112020039A	07/22/2011 17:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112060019A	07/26/2011 00:00	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112010028A	07/21/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112000001A	07/19/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112005708002	07/26/2011 04:45	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112005708002	07/26/2011 04:45	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112005708002	07/26/2011 04:45	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112005708002	07/26/2011 04:45	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112005708002	07/26/2011 04:45	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112005708002	07/26/2011 04:45	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112005708002	07/26/2011 04:45	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112005708002	07/26/2011 04:45	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112005708002	07/26/2011 04:45	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112005708002	07/26/2011 04:45	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112005708002	07/26/2011 04:45	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112005708002	07/26/2011 04:45	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112005708002	07/26/2011 04:45	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112005708002	07/26/2011 04:45	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112001026001A	07/25/2011 11:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112001026001A	07/25/2011 11:05	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112001026001D	07/25/2011 11:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112001026001A	07/25/2011 11:05	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112001026001A	07/25/2011 11:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112001026001A	07/25/2011 11:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112001026001A	07/25/2011 11:05	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: DUP03-SA6-QC-071511 Soil
SSFL Area IV Collocated Soil Sampling
DUP03-SA6-QC-071511

LLI Sample # SW 6346974
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:59

Submitted: 07/18/2011 08:20
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0112 SDG#: DE201-12FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	112001026001A	07/25/2011 11:05	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112001026001A	07/25/2011 11:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112001026001C	07/25/2011 11:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112001026001A	07/25/2011 11:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112001026001B	07/25/2011 11:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112001026001A	07/25/2011 11:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112001026001A	07/25/2011 11:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112001026001A	07/25/2011 11:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112001026001A	07/25/2011 11:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112005711002	07/20/2011 06:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112005708002	07/19/2011 22:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112001026001	07/19/2011 22:13	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112011026002	07/20/2011 11:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112005711002	07/20/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208495201B	07/30/2011 22:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206495201B	07/27/2011 22:21	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243203A	07/29/2011 16:44	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11208495201B	07/27/2011 21:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206495201B	07/25/2011 21:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039402B	07/26/2011 20:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243203A	07/27/2011 21:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-056-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA6-SS-0.0-0.5

LLI Sample # SW 6346975
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:22

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0113 SDG#: DE201-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	500	1
04688	Benzyl alcohol	100-51-6	170	U	170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	17	340	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	500	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	500	1

*=This limit was used in the evaluation of the final result

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SSFL Area IV Collocated Soil Sampling
SL-056-SA6-SS-0.0-0.5

LLI Sample # SW 6346975
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:22

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0113 SDG#: DE201-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.99	J	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	4.6		0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	4.2		0.67	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	8.3		0.67	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	1.0	J	0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	5.3		0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	8.1	J	6.1	18	1
10138	Di-n-butylphthalate	84-74-2	10	J	6.1	18	1
10138	Chrysene	218-01-9	6.7		0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Fluoranthene	206-44-0	11		0.67	1.7	1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7	1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18	1
10138	Phenanthrene	85-01-8	4.1		0.67	1.7	1
10138	Pyrene	129-00-0	8.9		0.67	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	5.3		0.62	1.7	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7	1
10401	MCPA	94-74-6	76	U	76	250	1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250	1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17	1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

*=This limit was used in the evaluation of the final result

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SSFL Area IV Collocated Soil Sampling
SL-056-SA6-SS-0.0-0.5

LLI Sample # SW 6346975
LLI Group # 1256713
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0113 SDG#: DE201-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17	1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34	1
01363	p,p-DDE	72-55-9	0.67	U	0.67	3.4	10
01363	p,p-DDT	50-29-3	19		0.67	3.4	10
01363	Delta BHC	319-86-8	0.037	J	0.036	0.17	1
01363	Dieldrin	60-57-1	3.3	J	0.67	3.4	10
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34	1
01363	Endrin	72-20-8	0.067	U	0.067	0.34	1
01363	Endrin Aldehyde	7421-93-4	2.2	U	2.2	2.2	1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34	1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.71		0.034	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. The samples were injected after maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The LCS data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	20	U	20	67	20
10225	Aroclor 5442	12642-23-8	20	U	20	67	20
10225	Aroclor 5460	11126-42-4	620		20	67	20
10225	PCB-1016	12674-11-2	6.7	U	6.7	34	20
10225	PCB-1221	11104-28-2	6.7	U	6.7	34	20
10225	PCB-1232	11141-16-5	6.7	U	6.7	34	20
10225	PCB-1242	53469-21-9	6.7	U	6.7	34	20
10225	PCB-1248	12672-29-6	6.7	U	6.7	34	20
10225	PCB-1254	11097-69-1	91		6.7	34	20
10225	PCB-1260	11096-82-5	48		7.9	34	20
10225	PCB-1262	37324-23-5	6.7	U	6.7	34	20
10225	PCB-1268	11100-14-4	6.7	U	6.7	34	20

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500	1
10501	Isopropanol	67-63-0	100	U	100	500	1
10501	Methanol	67-56-1	100	U	100	500	1

The sample was run outside the project holding time of 7 days, but within the

Sample Description: SL-056-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA6-SS-0.0-0.5

LLI Sample # SW 6346975
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:22

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Reported: 09/02/2011 10:51

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0113 SDG#: DE201-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.						
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10	1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10	1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2	1
10199	EFH (C15-C20)	n.a.	3.6		0.40	1.2	1
10199	EFH (C21-C30)	n.a.	9.1		0.40	1.2	1
10199	EFH (C30 - C40)	n.a.	21		0.40	1.2	1
10199	EFH (C8-C11)	n.a.	0.48	J	0.40	1.2	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,800		5.99	19.8	1
07914	Boron	7440-42-8	1.07	J	0.356	4.95	1
01650	Calcium	7440-70-2	2,560		2.47	19.8	1
01654	Iron	7439-89-6	20,900		2.58	19.8	1
01656	Lithium	7439-93-2	34.3		0.61	2.0	1
01657	Magnesium	7439-95-4	4,490		0.435	9.89	1
06958	Manganese	7439-96-5	298		0.0356	0.495	1
10145	Phosphorus	7723-14-0	450		0.346	9.89	1
01662	Potassium	7440-09-7	3,620		11.2	49.5	1
01667	Sodium	7440-23-5	61.4	J	5.89	98.9	1
07968	Strontium	7440-24-6	14.2		0.0247	0.495	1
06969	Tin	7440-31-5	2.85	J	0.317	9.89	1
06970	Titanium	7440-32-6	1,000		0.0702	0.989	1
10146	Zirconium	7440-67-7	1.89	J	0.455	4.95	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.184	J	0.0732	0.198	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.82		0.0792	0.396	2
06126	Barium	7440-39-3	143		0.105	0.396	2
06127	Beryllium	7440-41-7	0.776		0.0158	0.0989	2
06128	Cadmium	7440-43-9	0.320		0.0435	0.0989	2
06131	Chromium	7440-47-3	25.0		0.119	0.396	2

*=This limit was used in the evaluation of the final result

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SSFL Area IV Collocated Soil Sampling
SL-056-SA6-SS-0.0-0.5

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E0113 SDG#: DE201-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	8.08		0.0198	0.0989	2
06133	Copper	7440-50-8	12.1		0.0792	0.396	2
06135	Lead	7439-92-1	16.6		0.0101	0.198	2
06138	Molybdenum	7439-98-7	0.871		0.0495	0.0989	2
06139	Nickel	7440-02-0	17.5		0.0989	0.396	2
06141	Selenium	7782-49-2	0.179	J	0.0574	0.396	2
06142	Silver	7440-22-4	0.0606	J	0.0140	0.0989	2
06145	Thallium	7440-28-0	0.398		0.0297	0.0989	2
06148	Vanadium	7440-62-2	47.9		0.0218	0.0989	2
06149	Zinc	7440-66-6	102		0.554	2.97	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0103	J	0.0070	0.0996	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.79	U	0.79	0.99	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.66		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.91		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-056-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA6-SS-0.0-0.5

LLI Sample # SW 6346975
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E0113 SDG#: DE201-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11206SLB026	08/10/2011 21:59	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11207SLE026	08/01/2011 17:14	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11207SLE026	07/27/2011 06:50	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11206SLB026	07/25/2011 19:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112060012A	07/28/2011 00:26	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100005A	08/19/2011 08:25	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100005A	08/19/2011 08:40	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060005A	07/27/2011 19:42	Sarah M Snyder	20
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100005A	07/29/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060005A	07/25/2011 14:45	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112060012A	07/25/2011 21:15	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112010028A	07/21/2011 22:16	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112000001A	07/20/2011 10:22	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112060019A	07/29/2011 00:55	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020039A	07/26/2011 22:26	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112020039A	07/22/2011 17:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112060019A	07/26/2011 00:00	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112010028A	07/21/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112000001A	07/19/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112005708002	07/26/2011 04:57	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112005708002	07/26/2011 04:57	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112005708002	07/26/2011 04:57	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112005708002	07/26/2011 04:57	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112005708002	07/26/2011 04:57	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112005708002	07/26/2011 04:57	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112005708002	07/26/2011 04:57	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112005708002	07/26/2011 04:57	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112005708002	07/26/2011 04:57	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112005708002	07/26/2011 04:57	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112005708002	07/26/2011 04:57	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112005708002	07/26/2011 04:57	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112005708002	07/26/2011 04:57	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112005708002	07/26/2011 04:57	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112001026001A	07/25/2011 11:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112001026001A	07/25/2011 11:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112001026001D	07/25/2011 11:08	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112001026001A	07/25/2011 11:08	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112001026001A	07/25/2011 11:08	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112001026001A	07/25/2011 11:08	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112001026001A	07/25/2011 11:08	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-056-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA6-SS-0.0-0.5

LLI Sample # SW 6346975
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:22

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0113 SDG#: DE201-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	112001026001A	07/25/2011 11:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112001026001A	07/25/2011 11:08	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112001026001C	07/25/2011 11:08	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112001026001A	07/25/2011 11:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112001026001B	07/25/2011 11:08	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112001026001A	07/25/2011 11:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112001026001A	07/25/2011 11:08	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112001026001A	07/25/2011 11:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112001026001A	07/25/2011 11:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112005711002	07/20/2011 06:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112005708002	07/19/2011 22:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112001026001	07/19/2011 22:13	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112011026002	07/20/2011 11:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112005711002	07/20/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208495201B	07/30/2011 22:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206495201B	07/27/2011 20:49	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243203A	07/29/2011 16:52	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11208495201B	07/27/2011 21:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206495201B	07/25/2011 21:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039402B	07/26/2011 20:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243203A	07/27/2011 21:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-058-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA6-SS-0.0-0.5

LLI Sample # SW 6346976
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:02

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0114 SDG#: DE201-14*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	500	1
04688	Benzyl alcohol	100-51-6	170	U	170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	500	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	500	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-058-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA6-SS-0.0-0.5

LLI Sample # SW 6346976
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:02

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0114 SDG#: DE201-14*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.65	J	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	4.4		0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	4.0		0.67	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	7.7		0.67	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	3.1		0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	3.0		0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	25		6.1	18	1
10138	Di-n-butylphthalate	84-74-2	24		6.1	18	1
10138	Chrysene	218-01-9	6.9		0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.82	J	0.67	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.4	J	6.1	18	1
10138	Fluoranthene	206-44-0	11		0.67	1.7	1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.6		0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7	1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18	1
10138	Phenanthrene	85-01-8	4.1		0.67	1.7	1
10138	Pyrene	129-00-0	9.3		0.67	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	0.99	J	0.63	1.7	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	77	U	77	250	1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250	1
10401	2,4,5-T	93-76-5	0.40	U	0.40	0.40	1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

*=This limit was used in the evaluation of the final result

Sample Description: SL-058-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA6-SS-0.0-0.5

LLI Sample # SW 6346976
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:02

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0114 SDG#: DE201-14*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Reporting limits were raised for 2,4,5-T due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.043	J	0.034	0.17	1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34	1
01363	p,p-DDE	72-55-9	0.067	U	0.067	0.34	1
01363	p,p-DDT	50-29-3	1.3	U	1.3	1.3	1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17	1
01363	Dieldrin	60-57-1	0.33	U	0.33	0.34	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34	1
01363	Endrin	72-20-8	0.091	U	0.091	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.26	U	0.26	0.34	1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34	1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.081	U	0.081	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34	1
01363	Toxaphene	8001-35-2	27	U	27	27	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. The samples were injected after maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Reporting limits were raised due to interference from the sample matrix.						
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	200	U	200	670	200
10225	Aroclor 5442	12642-23-8	200	U	200	670	200
10225	Aroclor 5460	11126-42-4	4,200		200	670	200
10225	PCB-1016	12674-11-2	67	U	67	340	200
10225	PCB-1221	11104-28-2	67	U	67	340	200
10225	PCB-1232	11141-16-5	67	U	67	340	200
10225	PCB-1242	53469-21-9	67	U	67	340	200
10225	PCB-1248	12672-29-6	67	U	67	340	200
10225	PCB-1254	11097-69-1	1,900		67	340	200
10225	PCB-1260	11096-82-5	79	U	79	340	200
10225	PCB-1262	37324-23-5	67	U	67	340	200
10225	PCB-1268	11100-14-4	67	U	67	340	200

*=This limit was used in the evaluation of the final result

Sample Description: SL-058-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA6-SS-0.0-0.5

LLI Sample # SW 6346976
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:02

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0114 SDG#: DE201-14*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500	1
10501	Isopropanol	67-63-0	100	U	100	500	1
10501	Methanol	67-56-1	100	U	100	500	1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.						
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10	1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10	1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2	1
10199	EFH (C15-C20)	n.a.	1.7		0.40	1.2	1
10199	EFH (C21-C30)	n.a.	8.0		0.40	1.2	1
10199	EFH (C30 - C40)	n.a.	19		0.40	1.2	1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,500		5.87	19.4	1
07914	Boron	7440-42-8	0.534	J	0.350	4.85	1
01650	Calcium	7440-70-2	2,340		2.43	19.4	1
01654	Iron	7439-89-6	18,400		2.53	19.4	1
01656	Lithium	7439-93-2	32.0		0.60	1.9	1
01657	Magnesium	7439-95-4	3,530		0.427	9.71	1
06958	Manganese	7439-96-5	247		0.0350	0.485	1
10145	Phosphorus	7723-14-0	375		0.340	9.71	1
01662	Potassium	7440-09-7	3,070		11.0	48.5	1
01667	Sodium	7440-23-5	60.1	J	5.78	97.1	1
07968	Strontium	7440-24-6	11.0		0.0243	0.485	1
06969	Tin	7440-31-5	2.84	J	0.311	9.71	1
06970	Titanium	7440-32-6	940		0.0689	0.971	1
10146	Zirconium	7440-67-7	1.75	J	0.447	4.85	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.166	J	0.0733	0.198	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.82		0.0792	0.396	2
06126	Barium	7440-39-3	88.7		0.105	0.396	2
06127	Beryllium	7440-41-7	0.783		0.0158	0.0990	2
06128	Cadmium	7440-43-9	0.266		0.0436	0.0990	2
06131	Chromium	7440-47-3	19.9		0.119	0.396	2
06132	Cobalt	7440-48-4	6.70		0.0198	0.0990	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-058-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA6-SS-0.0-0.5

LLI Sample # SW 6346976
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:02

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0114 SDG#: DE201-14*

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06133	Copper		7440-50-8	10.3		0.0792	0.396	2
06135	Lead		7439-92-1	12.1		0.0101	0.198	2
06138	Molybdenum		7439-98-7	0.698		0.0495	0.0990	2
06139	Nickel		7440-02-0	13.7		0.0990	0.396	2
06141	Selenium		7782-49-2	0.285	J	0.0574	0.396	2
06142	Silver		7440-22-4	0.0525	J	0.0141	0.0990	2
06145	Thallium		7440-28-0	0.384		0.0297	0.0990	2
06148	Vanadium		7440-62-2	38.0		0.0218	0.0990	2
06149	Zinc		7440-66-6	90.1		0.554	2.97	2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0999		0.0067	0.0956	1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	0.82	U	0.82	1.0	1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.1	U	9.1	30.3	1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	1.2		0.20	1.0	1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.93		0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3		n.a.	0.96		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result

Sample Description: SL-058-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA6-SS-0.0-0.5

LLI Sample # SW 6346976
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:02

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0114 SDG#: DE201-14*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11206SLB026	08/10/2011 22:24	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11207SLE026	08/02/2011 08:43	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11207SLE026	07/27/2011 06:50	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11206SLB026	07/25/2011 19:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112060012A	07/28/2011 00:54	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112040007A	08/18/2011 08:07	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112060005A	07/27/2011 09:05	Sarah M Snyder	200
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112040007A	07/25/2011 11:05	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112060005A	07/25/2011 14:45	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112060012A	07/25/2011 21:15	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112010028A	07/21/2011 22:31	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112000001A	07/20/2011 10:35	Dustin A Underkoffler	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020039A	07/26/2011 23:08	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112020039A	07/22/2011 17:30	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112010028A	07/21/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112000001A	07/19/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112005708002	07/26/2011 05:02	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112005708002	07/26/2011 05:02	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112005708002	07/26/2011 05:02	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112005708002	07/26/2011 05:02	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112005708002	07/26/2011 05:02	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112005708002	07/26/2011 05:02	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112005708002	07/26/2011 05:02	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112005708002	07/26/2011 05:02	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112005708002	07/26/2011 05:02	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112005708002	07/26/2011 05:02	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112005708002	07/26/2011 05:02	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112005708002	07/26/2011 05:02	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112005708002	07/26/2011 05:02	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112005708002	07/26/2011 05:02	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112001026001A	07/25/2011 11:17	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112001026001A	07/25/2011 11:17	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112001026001D	07/25/2011 11:17	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112001026001A	07/25/2011 11:17	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112001026001A	07/25/2011 11:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112001026001A	07/25/2011 11:17	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112001026001A	07/25/2011 11:17	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112001026001A	07/25/2011 11:17	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112001026001A	07/25/2011 11:17	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112001026001C	07/25/2011 11:17	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112001026001A	07/25/2011 11:17	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112001026001B	07/25/2011 11:17	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-058-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA6-SS-0.0-0.5

LLI Sample # SW 6346976
LLI Group # 1256713
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:02

Submitted: 07/18/2011 08:20
Reported: 09/02/2011 10:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0114 SDG#: DE201-14*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112001026001A	07/25/2011 11:17	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112001026001A	07/25/2011 11:17	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112001026001A	07/25/2011 11:17	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112001026001A	07/25/2011 11:17	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112005711002	07/20/2011 06:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112005708002	07/19/2011 22:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112001026001	07/19/2011 22:13	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112011026002	07/20/2011 11:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112005711002	07/20/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11208495201B	07/30/2011 23:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11206495201B	07/27/2011 22:45	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11208243203A	07/29/2011 17:28	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11208495201B	07/27/2011 21:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11206495201B	07/25/2011 21:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039402B	07/26/2011 20:10	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11208243203A	07/27/2011 21:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256713
Reported: 09/02/11 at 10:51 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11206SLB026	Sample number(s): 6346960-6346972,6346974-6346976									
Acenaphthene	17	U	17.	170	ug/kg	94		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	99		75-122		
Aniline	170 U		170.	500	ug/kg	73		20-115		
Anthracene	17	U	17.	170	ug/kg	99		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	30		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	92		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	96		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	106		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	100		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	96		67-125		
Benzoic acid	170 U		170.	500	ug/kg	87		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	89		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	102		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	93		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	94		79-112		
Carbazole	17	U	17.	170	ug/kg	94		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	89		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	47		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	92		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	92		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	94		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	87		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	97		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	94		74-115		
Chrysene	17	U	17.	170	ug/kg	93		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	98		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	91		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	90		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	91		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	58		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	96		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	93		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	96		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	93		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	84		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	75		18-133		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256713
Reported: 09/02/11 at 10:51 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	92		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	97		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	96		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	91		75-117		
Fluoranthene	17	U	17.	170	ug/kg	99		78-116		
Fluorene	17	U	17.	170	ug/kg	94		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	101		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	92		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	80		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	87		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	99		64-119		
Isophorone	17	U	17.	170	ug/kg	90		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	94		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	94		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	96		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	95		66-117		
Naphthalene	17	U	17.	170	ug/kg	92		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	95		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	81		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	68		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	92		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	93		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	78		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	87		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	91		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	98		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	88		51-117		
Phenanthrene	17	U	17.	170	ug/kg	96		77-113		
Phenol	17	U	17.	170	ug/kg	96		58-112		
Pyrene	17	U	17.	170	ug/kg	95		75-115		
Tetralin	170	U	170.	170	ug/kg	71		70-130		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	95		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	94		78-111		

Batch number: 11207SLE026 Sample number(s): 6346960-6346972,6346974-6346976

Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	88		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	91		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	94		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	78		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	84		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	93		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	81		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	107		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	104		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	96		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	88		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	104		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	95		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	115		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	95		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	94		71-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256713
Reported: 09/02/11 at 10:51 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	87		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	86		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	85		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	86		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	89		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	97		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	90		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	95		72-119		
Batch number: 112060012A	Sample number(s): 6346960-6346972,6346974-6346976									
2,4-D	1.2	U	1.2	3.6	ug/kg	90		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	33		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	86		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	100		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	4*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	120		62-170		
MCPA	76	U	76.	250	ug/kg	81		60-130		
MCPP (Mecoprop)	150 J		75.	250	ug/kg	119		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	87		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	80		68-114		
Batch number: 112130022A	Sample number(s): 6346966									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	114		85-115		
Batch number: 112040007A	Sample number(s): 6346960-6346972,6346974,6346976									
Aldrin	0.066	U	0.066	0.17	ug/kg	109		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	88		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	131		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	97		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	119		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	149*		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	121		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	147*		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	115		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	109		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	115		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	129		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	116		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	108		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	115		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	106		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	130		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	121		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112060005A	Sample number(s): 6346960,6346962-6346972,6346974-6346976									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	102	86	36-106	17	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256713
Reported: 09/02/11 at 10:51 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1260	0.39	U	0.39	1.7	ug/kg	111		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112080012A	Sample number(s): 6346961									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	79	71	36-106	10	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	85		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	104		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112100005A	Sample number(s): 6346975									
Aldrin	0.066	U	0.066	0.17	ug/kg	82		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	62		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	84		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	68		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	103		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	102		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	108		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	81		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	88		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	79		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	128*		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	114		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	93		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	86		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	103		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	68		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	91		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	106		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 111990002A	Sample number(s): 6346964									
Diethylene glycol	5.0	U	5.0	10	mg/kg	145*		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	143*		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	133*		75-125		
Batch number: 112000001A	Sample number(s): 6346965-6346972,6346974-6346976									
Diethylene glycol	5.0	U	5.0	10	mg/kg	103		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	102		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	96		75-125		
Batch number: 112010028A	Sample number(s): 6346964-6346972,6346974-6346976									
Ethanol	100	U	100.	500	ug/kg	91		71-129		
Isopropanol	100	U	100.	500	ug/kg	91		75-125		
Methanol	100	U	100.	500	ug/kg	96		68-129		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256713
Reported: 09/02/11 at 10:51 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112020039A	Sample number(s): 6346964-6346972,6346974-6346976									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	105		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	110		76-122		
EFH (C21-C30)	0.41	J	0.40	1.2	mg/kg	115		69-132		
EFH (C30 - C40)	1.0	J	0.40	1.2	mg/kg	116		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	76		54-107		
Batch number: 112060019A	Sample number(s): 6346964-6346966,6346968-6346972,6346974-6346975									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	88		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	105		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		75-125		
Batch number: 112001026001A	Sample number(s): 6346960-6346976									
Antimony	0.0740	U	0.0740	0.200	mg/kg	114		40-224		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	110		78-122		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	112		80-120		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	110		81-119		
Chromium	0.120	U	0.120	0.400	mg/kg	122		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	104		80-119		
Copper	0.0800	U	0.0800	0.400	mg/kg	110		78-122		
Lead	0.0102	U	0.0102	0.200	mg/kg	110		77-123		
Nickel	0.100	U	0.100	0.400	mg/kg	118		80-120		
Silver	0.0142	U	0.0142	0.100	mg/kg	110		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	112		75-124		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	124		76-124		
Zinc	0.560	U	0.560	3.00	mg/kg	114		79-121		
Batch number: 112001026001B	Sample number(s): 6346960-6346976									
Selenium	0.0580	U	0.0580	0.400	mg/kg	112		77-123		
Batch number: 112001026001C	Sample number(s): 6346960-6346976									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	115		76-123		
Batch number: 112001026001D	Sample number(s): 6346960-6346976									
Barium	0.106	U	0.106	0.400	mg/kg	107		80-120		
Batch number: 112005708002	Sample number(s): 6346960-6346976									
Aluminum	6.05	U	6.05	20.0	mg/kg	132		42-158		
Boron	0.360	U	0.360	5.00	mg/kg	103		66-134		
Calcium	9.33	J	2.50	20.0	mg/kg	105		79-121		
Iron	5.79	J	2.61	20.0	mg/kg	129		51-149		
Lithium	0.62	U	0.62	2.0	mg/kg	102		80-120		
Magnesium	0.469	J	0.440	10.0	mg/kg	115		64-136		
Manganese	0.0430	J	0.0360	0.500	mg/kg	96		78-122		
Phosphorus	1.76	J	0.350	10.0	mg/kg	105		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	108		69-131		
Sodium	5.95	U	5.95	100	mg/kg	108		71-129		
Strontium	0.0290	J	0.0250	0.500	mg/kg	104		81-119		
Tin	1.84	J	0.320	10.0	mg/kg	99		74-126		
Titanium	0.0710	U	0.0710	1.00	mg/kg	157		40-186		
Zirconium	0.568	J	0.460	5.00	mg/kg	105		80-120		
Batch number: 112005711002	Sample number(s): 6346960-6346976									
Mercury	0.0070	U	0.0070	0.0994	mg/kg	95		72-128		
Batch number: 11206495201A	Sample number(s): 6346961-6346971,6346973									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	106		85-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256713
Reported: 09/02/11 at 10:51 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11206495201B	Sample number(s): 6346960,6346974-6346976									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	106		85-115		
Batch number: 11208243203A	Sample number(s): 6346960-6346971,6346973-6346976									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	96		80-120		
Batch number: 11208495201A	Sample number(s): 6346960-6346969									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	107		90-110		
Batch number: 11208495201B	Sample number(s): 6346970-6346971,6346973-6346976									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	107		90-110		
Batch number: 11207039402A	Sample number(s): 6346960-6346968									
18a pH by 9045C						100		95-105		
Batch number: 11207039402B	Sample number(s): 6346969-6346970,6346973-6346976									
18a pH by 9045C						100		95-105		
Batch number: 11206162401A	Sample number(s): 6346960-6346976									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11206SLB026	Sample number(s): 6346960-6346972,6346974-6346976 UNSPK: 6346970								
Acenaphthene	94	94	75-115	1	30				
Acenaphthylene	99	102	81-110	3	30				
Aniline	49	51	18-116	4	30				
Anthracene	100	101	75-115	1	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	92	95	65-122	3	30				
Benzo(a)pyrene	101	100	57-126	1	30				
Benzo(b)fluoranthene	105	105	59-125	0	30				
Benzo(g,h,i)perylene	113	109	59-127	4	30				
Benzo(k)fluoranthene	99	97	56-132	2	30				
Benzoic acid	14	24	10-173	54*	30				
Benzyl alcohol	88	92	67-115	5	30				
4-Bromophenyl-phenylether	106	108	67-129	3	30				
Butylbenzylphthalate	96	95	73-134	1	30				
Di-n-butylphthalate	97	96	67-123	0	30				
Carbazole	93	94	64-120	1	30				
4-Chloro-3-methylphenol	94	91	62-122	3	30				
4-Chloroaniline	44	40	13-107	10	30				
bis(2-Chloroethoxy)methane	92	91	75-104	1	30				
bis(2-Chloroethyl)ether	88	90	60-116	3	30				
bis(2-Chloroisopropyl)ether	89	93	55-142	4	30				
2-Chloronaphthalene	86	90	50-141	4	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256713
Reported: 09/02/11 at 10:51 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Chlorophenol	95	98	73-121	3	30				
4-Chlorophenyl-phenylether	93	96	80-109	3	30				
Chrysene	92	94	62-128	2	30				
Dibenz(a,h)anthracene	110	107	65-125	3	30				
Dibenzofuran	91	93	71-112	3	30				
1,2-Dichlorobenzene	85	89	66-108	4	30				
1,3-Dichlorobenzene	85	87	63-109	2	30				
1,4-Dichlorobenzene	87	89	58-108	2	30				
3,3'-Dichlorobenzidine	57	65	28-109	13	30				
2,4-Dichlorophenol	96	96	66-123	0	30				
Diethylphthalate	93	94	66-118	1	30				
2,4-Dimethylphenol	94	93	68-118	1	30				
3,5-Dimethylphenol	100	96	71-127	5	30				
Dimethylphthalate	93	95	64-118	2	30				
4,6-Dinitro-2-methylphenol	49	60	11-126	19	30				
2,4-Dinitrophenol	15*	26	20-143	55*	30				
2,4-Dinitrotoluene	91	92	56-129	0	30				
2,6-Dinitrotoluene	98	98	69-123	0	30				
1,2-Diphenylhydrazine	100	101	71-129	1	30				
bis(2-Ethylhexyl)phthalate	95	97	63-122	2	30				
Fluoranthene	95	97	73-112	2	30				
Fluorene	94	97	63-121	3	30				
Hexachlorobenzene	103	106	77-114	4	30				
Hexachlorobutadiene	100	96	62-120	4	30				
Hexachlorocyclopentadiene	70	73	10-153	4	30				
Hexachloroethane	87	91	57-109	5	30				
Indeno(1,2,3-cd)pyrene	110	109	61-126	1	30				
Isophorone	91	89	73-102	2	30				
1-Methylnaphthalene	95	95	64-122	0	30				
2-Methylnaphthalene	96	94	76-114	1	30				
2-Methylphenol	93	99	75-111	6	30				
4-Methylphenol	90	95	59-123	5	30				
Naphthalene	94	93	72-116	1	30				
2-Nitroaniline	94	99	67-125	5	30				
3-Nitroaniline	82	84	59-122	2	30				
4-Nitroaniline	63	67	41-109	6	30				
Nitrobenzene	93	92	57-125	1	30				
2-Nitrophenol	90	92	56-127	2	30				
4-Nitrophenol	74	76	37-129	3	30				
N-Nitroso-di-n-propylamine	84	85	60-116	2	30				
N-Nitrosodimethylamine	87	88	47-116	1	30				
N-Nitrosodiphenylamine	100	102	71-122	2	30				
Di-n-octylphthalate	101	101	56-126	0	30				
Pentachlorophenol	78	85	28-127	8	30				
Phenanthrene	98	99	65-125	1	30				
Phenol	89	94	58-126	5	30				
Pyrene	96	98	74-126	2	30				
Tetralin	116	92	70-130	23	30				
1,2,4-Trichlorobenzene	96	93	72-115	3	30				
2,4,5-Trichlorophenol	95	97	58-129	3	30				
2,4,6-Trichlorophenol	94	96	56-134	3	30				

Batch number: 11207SLE026 Sample number(s): 6346960-6346972,6346974-6346976 UNSPK: 6346970

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256713
Reported: 09/02/11 at 10:51 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Acenaphthene	95	95	63-105	0	30				
Acenaphthylene	92	96	67-114	4	30				
Anthracene	100	102	73-115	3	30				
Benzo(a)anthracene	115	98	59-128	14	30				
Benzo(a)pyrene	97	80	58-142	17	30				
Benzo(b)fluoranthene	102	84	54-163	15	30				
Benzo(g,h,i)perylene	67	54	33-141	18	30				
Benzo(k)fluoranthene	83	77	57-153	7	30				
Butylbenzylphthalate	95	93	57-173	2	30				
Di-n-butylphthalate	68	75	65-148	6	30				
Chrysene	118	98	67-123	15	30				
Dibenz(a,h)anthracene	77	69	22-133	11	30				
Diethylphthalate	107	110	70-136	2	30				
Dimethylphthalate	100	101	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	144	119	39-167	15	30				
Fluoranthene	135	106	51-149	16	30				
Fluorene	99	101	66-122	2	30				
Indeno(1,2,3-cd)pyrene	79	66	21-143	16	30				
1-Methylnaphthalene	89	90	72-123	0	30				
2-Methylnaphthalene	89	89	64-103	1	30				
Naphthalene	90	92	61-102	2	30				
N-Nitrosodimethylamine	91	92	48-113	1	30				
Di-n-octylphthalate	101	101	40-192	0	30				
Phenanthrene	112	99	62-122	11	30				
Pyrene	125	88	51-131	24	30				
Batch number: 112060012A	Sample number(s): 6346960-6346972,6346974-6346976 UNSPK: 6346970								
2,4-D	95	92	17-180	3	35				
Dalapon	55	55	10-125	0	50				
2,4-DB	113	138	10-201	20	50				
Dicamba	51	52	10-190	2	50				
Dinoseb	8*	11	10-46	27	35				
2,4-DP (Dichlorprop)	42	0*	33-178	200*	50				
MCPA	37	40	10-213	8	50				
MCPP (Mecoprop)	112	120	10-184	7	50				
2,4,5-T	43	47	10-156	8	35				
2,4,5-TP	65	69	24-141	5	35				
Batch number: 112130022A	Sample number(s): 6346966 UNSPK: P352971								
6a Perchlorate EPA 6850	119	121*	80-120	2	20				
Batch number: 112040007A	Sample number(s): 6346960-6346972,6346974,6346976 UNSPK: 6346970								
Aldrin	88	88	16-126	0	50				
Alpha BHC	76	79	10-129	4	50				
Beta BHC	47	78	14-147	50	50				
Gamma BHC - Lindane	79	85	10-140	7	50				
p,p-DDD	97	107	16-163	10	50				
p,p-DDE	218*	211*	18-161	4	50				
p,p-DDT	146 (2)	223 (2)	10-176	10	50				
Delta BHC	113	116	23-140	3	50				
Dieldrin	181*	131	19-154	32	50				
Endosulfan I	71	62	16-137	13	50				
Endosulfan II	82	89	28-154	9	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256713
Reported: 09/02/11 at 10:51 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Endosulfan Sulfate	137	149	21-160	9	50				
Endrin	0*	0*	11-149	0	50				
Endrin Aldehyde	120	130	10-148	8	35				
Endrin Ketone	131	86	22-165	41	50				
Heptachlor	85	82	13-126	4	50				
Heptachlor Epoxide	130	130	13-157	0	50				
Methoxychlor	128	130	32-147	2	50				
Batch number: 112060005A	Sample number(s): 6346960,6346962-6346972,6346974-6346976 UNSPK: 6346970								
PCB-1016	128	116	29-146	10	50				
PCB-1260	149	195*	39-149	26	50				
Batch number: 112080012A	Sample number(s): 6346961 UNSPK: P348152								
PCB-1016	53	58	29-146	9	50				
PCB-1260	66	64	39-149	3	50				
Batch number: 112100005A	Sample number(s): 6346975 UNSPK: P348153								
Aldrin	73	58	16-126	23	50				
Alpha BHC	50	62	10-129	21	50				
Beta BHC	63	50	14-147	22	50				
Gamma BHC - Lindane	56	71	10-140	23	50				
p,p-DDD	63	87	16-163	32	50				
p,p-DDE	125	98	18-161	23	50				
p,p-DDT	18	56	10-176	32	50				
Delta BHC	91	116	23-140	24	50				
Dieldrin	71	97	19-154	32	50				
Endosulfan I	53	59	16-137	11	50				
Endosulfan II	88	117	28-154	29	50				
Endosulfan Sulfate	95	68	21-160	34	50				
Endrin	52	69	11-149	27	50				
Endrin Aldehyde	68	91	10-148	29	35				
Endrin Ketone	65	76	22-165	15	50				
Heptachlor	62	74	13-126	17	50				
Heptachlor Epoxide	67	85	13-157	24	50				
Methoxychlor	83	82	32-147	2	50				
Batch number: 111990002A	Sample number(s): 6346964 UNSPK: P345448								
Diethylene glycol	34*	40*	59-109	16	20				
Ethylene glycol	56*	69	63-107	22*	20				
Propylene glycol	60*	74	63-107	20	20				
Batch number: 112000001A	Sample number(s): 6346965-6346972,6346974-6346976 UNSPK: 6346970								
Diethylene glycol	15*	25*	59-109	46*	20				
Ethylene glycol	41*	51*	63-107	22*	20				
Propylene glycol	55*	66	63-107	19	20				
Batch number: 112010028A	Sample number(s): 6346964-6346972,6346974-6346976 UNSPK: 6346970								
Ethanol	91	92	48-130	0	20				
Isopropanol	86	87	12-149	0	20				
Methanol	87	88	43-138	1	20				
Batch number: 112020039A	Sample number(s): 6346964-6346972,6346974-6346976 UNSPK: 6346970								
EFH (C12-C14)	129*	127*	49-123	1	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256713
Reported: 09/02/11 at 10:51 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
EFH (C15-C20)	123	142*	49-123	7	20				
EFH (C21-C30)	244 (2)	180 (2)	49-123	9	20				
EFH (C30 - C40)	108 (2)	243 (2)	49-123	10	20				
EFH (C8-C11)	60	63	49-123	3	20				
Batch number: 112060019A	Sample number(s): 6346964-6346966,6346968-6346972,6346974-6346975 UNSPK: 6346970								
m-Terphenyl	72*	81	75-125	12	20				
o-Terphenyl	101	103	75-125	2	20				
p-Terphenyl	80	85	75-125	5	20				
Batch number: 112001026001A	Sample number(s): 6346960-6346976 UNSPK: 6346970 BKG: 6346970								
Antimony	30*	52*	75-125	38*	20	0.177 J	0.220	22* (1)	20
Arsenic	9 (2)	133 (2)	75-125	25*	20	8.15	10.3	23*	20
Beryllium	78	133*	75-125	29*	20	0.632	0.716	12	20
Cadmium	100	141*	75-125	29*	20	0.176	0.249	34* (1)	20
Chromium	63*	130*	75-125	23*	20	19.2	26.5	32*	20
Cobalt	93	123	75-125	23*	20	6.84	8.61	23*	20
Copper	73*	137*	75-125	30*	20	10.6	13.1	21*	20
Lead	-31 (2)	141 (2)	75-125	28*	20	16.7	20.1	19	20
Nickel	71*	137*	75-125	27*	20	13.3	16.0	18	20
Silver	104	129*	75-125	21*	20	0.0732 J	0.0625 J	16 (1)	20
Thallium	76	126*	75-125	27*	20	0.313	0.358	14 (1)	20
Vanadium	30*	155*	75-125	26*	20	38.4	47.3	21*	20
Zinc	-78 (2)	126 (2)	75-125	24*	20	79.7	94.9	17	20
Batch number: 112001026001B	Sample number(s): 6346960-6346976 UNSPK: 6346970 BKG: 6346970								
Selenium	97	122	75-125	21*	20	0.125 J	0.159 J	24* (1)	20
Batch number: 112001026001C	Sample number(s): 6346960-6346976 UNSPK: 6346970 BKG: 6346970								
Molybdenum	100	130*	75-125	24*	20	0.699	0.892	24*	20
Batch number: 112001026001D	Sample number(s): 6346960-6346976 UNSPK: 6346970 BKG: 6346970								
Barium	-121 (2)	167 (2)	75-125	29*	20	96.6	120	22*	20
Batch number: 112005708002	Sample number(s): 6346960-6346976 UNSPK: 6346970 BKG: 6346970								
Aluminum	1588 (2)	1175 (2)	75-125	5	20	12,500	13,500	7	20
Boron	99	97	84-115	1	20	0.852 J	1.07 J	22* (1)	20
Calcium	142 (2)	259 (2)	75-125	15	20	2,340	2,480	6	20
Iron	1128 (2)	-1071 (2)	75-125	11	20	19,200	20,600	7	20
Lithium	106	103	82-114	1	20	21.5	22.9	6	20
Magnesium	154 (2)	92 (2)	75-125	3	20	4,100	4,280	4	20
Manganese	59 (2)	78 (2)	75-125	3	20	265	255	4	20
Phosphorus	98	92	75-125	1	20	319	336	5	20
Potassium	114	99	75-125	4	20	2,730	2,840	4	20
Sodium	100	98	75-125	0	20	63.3 J	64.6 J	2 (1)	20
Strontium	101	102	75-115	2	20	12.4	13.0	5	20
Tin	89	90	80-110	1	20	2.53 J	2.43 J	4 (1)	20
Titanium	250 (2)	173 (2)	75-125	6	20	954	1,010	6	20
Zirconium	96	97	75-125	2	20	2.46 J	1.98 J	22* (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256713
Reported: 09/02/11 at 10:51 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112005711002	Sample number(s): 6346960-6346976 UNSPK: 6346970 BKG: 6346970								
Mercury	109	102	65-135	4	20	0.0312 J	0.0420 J	30* (1)	20
Batch number: 11206495201A	Sample number(s): 6346961-6346971,6346973 UNSPK: 6346970 BKG: 6346970								
7a Perchlorate EPA 314.0	102		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11206495201B	Sample number(s): 6346960,6346974-6346976 UNSPK: 6346975 BKG: 6346975								
7a Perchlorate EPA 314.0	100		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11208243203A	Sample number(s): 6346960-6346971,6346973-6346976 UNSPK: 6346970 BKG: 6346970								
3a Cr VI by EPA 7199	86		75-125			0.66 J	0.67 J	2 (1)	20
Batch number: 11208495201A	Sample number(s): 6346960-6346969 UNSPK: 6346960 BKG: 6346960								
11a Anions by 300.0 - Fluoride	115		80-120			2.3	3.5	43* (1)	20
Batch number: 11208495201B	Sample number(s): 6346970-6346971,6346973-6346976 UNSPK: 6346970 BKG: 6346970								
11a Anions by 300.0 - Fluoride	81		80-120			0.80 U	0.80 U	0 (1)	20
Batch number: 11207039402A	Sample number(s): 6346960-6346968 BKG: 6346960								
18a pH by 9045C						8.35	8.32	0	3
Batch number: 11207039402B	Sample number(s): 6346969-6346970,6346973-6346976 BKG: 6346970								
18a pH by 9045C						7.01	7.04	0	3
Batch number: 11206162401A	Sample number(s): 6346960-6346976 BKG: 6346970								
28a Moisture Content by 160.3						0.88	0.87	1 (1)	20
Moisture Content by 160.3						0.88	0.87	1 (1)	20
Moisture Content by 160.3						0.88	0.87	1 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11206SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6346960	92	90	86	87	93	86
6346961	76	77	75	77	82	78
6346962	80	81	75	80	86	76
6346963	92	92	90	85	93	84
6346964	90	87	77	82	91	84
6346965	86	87	81	87	94	85
6346966	91	91	86	88	95	85
6346967	70	70	70	65	74	69
6346968	80	80	81	75	86	77
6346969	91	92	86	86	97	85
6346970	93	90	90	85	94	83
6346971	90	88	92	88	89	86

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256713
Reported: 09/02/11 at 10:51 AM

Surrogate Quality Control

6346972	94	91	93	86	93	86
6346974	86	87	88	86	92	86
6346975	94	93	89	87	95	88
6346976	89	87	90	83	94	86
Blank	90	90	97	83	88	85
LCS	94	92	93	85	90	83
MS	90	88	92	88	89	86
MSD	94	91	93	86	93	86
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11207SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6346960	105	91	95
6346961	120	99	97
6346962	99	87	86
6346963	104	95	95
6346964	102	91	91
6346965	102	93	97
6346966	100	94	90
6346967	104	87	104
6346968	97	78	120
6346969	112	97	107
6346970	108	95	93
6346971	106	93	92
6346972	107	93	93
6346974	104	90	103
6346975	68	62	70
6346976	114	94	102
Blank	94	85	99
LCS	97	88	94
MS	106	93	92
MSD	107	93	93
Limits:	40-130	45-130	45-135

Analysis Name: 12a Pesticides by 8081A
Batch number: 112040007A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6346960	84	116
6346961	71	241*
6346962	75	304*
6346963	70	89
6346964	75	120
6346965	70	97
6346966	70	93
6346967	76	127*
6346968	73	91
6346969	66	124*
6346970	82	150*
6346971	74	134*
6346972	85	146*
6346974	80	102
6346976	83	207*
Blank	79	121*

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256713
Reported: 09/02/11 at 10:51 AM

Surrogate Quality Control

LCS	79	125*
MS	74	134*
MSD	85	146*
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112060005A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6346960	106	93
6346962	117	0*
6346963	96	100
6346964	93	72
6346965	82	50
6346966	100	102
6346967	89	61
6346968	68	57
6346969	79	66
6346970	97	91
6346971	101	94
6346972	98	94
6346974	82	74
6346975	100	82
6346976	120	188*
Blank	93	91
LCS	104	102
LCSD	105	114
MS	101	94
MSD	98	94
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112060012A

	2,4-Dichlorophenylacetic acid
6346960	96
6346961	57
6346962	65
6346963	95
6346964	122
6346965	75
6346966	113
6346967	19*
6346968	144
6346969	95
6346970	85
6346971	89
6346972	93
6346974	96
6346975	78
6346976	71
Blank	81
LCS	105
MS	89

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256713
Reported: 09/02/11 at 10:51 AM

Surrogate Quality Control

MSD	93	

Limits: 36-156

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112080012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6346961	53	62
Blank	89	94
LCS	90	94
LCSD	86	92
MS	72	56
MSD	68	55

Limits: 53-139 45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 112100005A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6346975	63	88
Blank	57	116
LCS	56	118
MS	58	99
MSD	59	81

Limits: 50-130 20-120

Analysis Name: 21a Glycols by 8015B
Batch number: 111990002A

	Tetramethylene glycol
6346964	92
Blank	97
LCS	102
MS	96
MSD	101

Limits: 29-137

Analysis Name: 21a Glycols by 8015B
Batch number: 112000001A

	Tetramethylene glycol
6346965	85
6346966	82
6346967	85
6346968	86
6346969	84
6346970	78
6346971	89
6346972	94
6346974	93
6346975	91
6346976	93
Blank	103

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Quality Control Summary

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Reported: 09/02/11 at 10:51 AM

Surrogate Quality Control

LCS	102
MS	89
MSD	94
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 112010028A

	Acetone
6346964	92
6346965	99
6346966	99
6346967	104
6346968	102
6346969	117
6346970	121
6346971	104
6346972	114
6346974	140*
6346975	97
6346976	99
Blank	103
LCS	102
MS	104
MSD	114
Limits:	42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112020039A

	Chlorobenzene	Orthoterphenyl
6346964	81	109
6346965	64	97
6346966	76	120
6346967	84	103
6346968	74	66
6346969	76	103
6346970	84	115
6346971	88	115
6346972	88	117
6346974	84	109
6346975	77	118
6346976	81	112
Blank	88	110
LCS	95	115
MS	88	115
MSD	88	117
Limits:	37-125	47-145

Analysis Name: 20a Terphenyls by 8015B
Batch number: 112060019A

	n-Triacontane-d62
6346964	78

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256713
Reported: 09/02/11 at 10:51 AM

Surrogate Quality Control

6346965	91
6346966	86
6346968	0*
6346969	27*
6346970	78
6346971	72
6346972	63
6346974	80
6346975	64
Blank	89
LCS	83
MS	72
MSD	63
Limits:	50-150

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13013/125713/6346960-76

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA8) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxins/Furans EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terpenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-004-SA6-SS-0.0-0.5	07.14.11	1116	SOIL	NONE	1-SS Sleeve			X	X																	
SL-004-SA6-SS-0.0-0.5	07.14.11	1116	SOIL	NONE	1-15 oz jar	X	X			X	X	X	X		X	X										
[illegible]	07.14.11	1050	SOIL	NONE	1-SS Sleeve	[illegible]																				
[illegible]	07.14.11	1050	SOIL	NONE	1-15 oz jar	X	X			X	X	X	X		X	X										
SL-020-SA6-SS-0.0-0.5	07.14.11	1257	SOIL	NONE	1-SS Sleeve			X	X																	
SL-020-SA6-SS-0.0-0.5	07.14.11	1257	SOIL	NONE	1-15 oz jar	X	X			X	X	X	X		X	X										
[illegible]	07.14.11	1326	SOIL	NONE	1-SS Sleeve			X	X																	
[illegible]	07.14.11	1326	SOIL	NONE	1-15 oz jar	X	X			X	X	X	X		X	X										
SL-043-SA6-SS-0.0-0.5	07.14.11	0741	SOIL	NONE	1-SS Sleeve			X	X																	
SL-043-SA6-SS-0.0-0.5	07.14.11	0741	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
[illegible]	07.14.11	0900	SOIL	NONE	1-SS Sleeve			X	X																	
[illegible]	07.14.11	0900	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-126-SA6-SS-0.0-0.5	07.14.11	1435	SOIL	NONE	1-SS Sleeve			X	X																	
SL-126-SA6-SS-0.0-0.5	07.14.11	1435	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X	X						X	X	X	
[illegible]	07.14.11	0828	SOIL	NONE	1-SS Sleeve			X	X																	
[illegible]	07.14.11	0828	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X							X	X	
SL-303-SA6-SS-0.0-0.5	07.14.11	0855	SOIL	NONE	1-SS Sleeve			X	X																	
SL-303-SA6-SS-0.0-0.5	07.14.11	0855	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
[illegible]	07.14.11	0914	SOIL	NONE	1-SS Sleeve			X	X																	
[illegible]	07.14.11	0914	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-286-SA6-SS-0.0-0.5MS	07.14.11	1454	SOIL	NONE	2-SS Sleeve			X	X																	
SL-286-SA6-SS-0.0-0.5MS	07.14.11	1454	SOIL	NONE	6-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
[illegible]	07.14.11	1459	SOIL	NONE	1-SS Sleeve			X	X																	
[illegible]	07.14.11	1459	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-056-SA6-SS-0.0-0.5	07.13.11	1522	SOIL	NONE	1-SS Sleeve			X	X																	Collected on 7/13/11
SL-056-SA6-SS-0.0-0.5	07.13.11	1522	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	Collected on 7/13/11
[illegible]	07.13.11	1502	SOIL	NONE	1-SS Sleeve			X	X																	Collected on 7/13/11
[illegible]	07.13.11	1502	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X							X	X	Collected on 7/13/11

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	07/18/2011 / 1600	LL 7/18/11 920	Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No(s):**	
		8754 3340 5808,5819	

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Wednesday, July 20, 2011 6:57 PM
To: Nicole Maljovec
Subject: RE: Friday's COC

It's 7/14. I corrected the date but not the comment! Thank you!!

-----Original Message-----
From: Nicole Maljovec [mailto:nmaljovec@lancasterlabs.com]
Sent: Wednesday, July 20, 2011 3:45 PM
To: Hartman, Pamela
Subject: FW: Friday's COC

Hi Pam,
Can you check this one? The collection date was updated to 7/14, but there's a comment that says the samples was collected on 7/13. Which date should we reference?

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Monday, July 18, 2011 12:30 PM
To: Nicole Maljovec
Subject: Friday's COC

Hi Nicole,

I made another date mistake on the COC. I have attached a COC from Friday with the correct dates. I was behind by one day

Did Todd and/or John respond to your elevated Temp blank email?

Thanks,

Pam

CONFIDENTIAL MATERIAL: This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If received in error, please notify sender by return e-mail and destroy all copies of the original transmission and any attachments. Thank you.

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CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-004-SA6-SS-0.0-0.5	07.15.11	1116	SOIL	NONE	1-SS Sleeve			X	X																	
SL-004-SA6-SS-0.0-0.5	07.15.11	1116	SOIL	NONE	1-15 oz.jar	X	X			X	X	X	X		X	X										
SL-005-SA6-SS-0.0-0.5	07.15.11	1050	SOIL	NONE	1-SS Sleeve			X	X																	
SL-005-SA6-SS-0.0-0.5	07.15.11	1050	SOIL	NONE	1-15 oz.jar	X	X			X	X	X	X		X	X										
SL-020-SA6-SS-0.0-0.5	07.15.11	1257	SOIL	NONE	1-SS Sleeve			X	X																	
SL-020-SA6-SS-0.0-0.5	07.15.11	1257	SOIL	NONE	1-15 oz.jar	X	X			X	X	X	X		X	X										
SL-029-SA6-SS-0.0-0.5	07.15.11	1326	SOIL	NONE	1-SS Sleeve			X	X																	
SL-029-SA6-SS-0.0-0.5	07.15.11	1326	SOIL	NONE	1-15 oz.jar	X	X			X	X	X	X		X	X										
SL-043-SA6-SS-0.0-0.5	07.15.11	0741	SOIL	NONE	1-SS Sleeve			X	X																	
SL-043-SA6-SS-0.0-0.5	07.15.11	0741	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-044-SA6-SS-0.0-0.5	07.15.11	0800	SOIL	NONE	1-SS Sleeve			X	X																	
SL-044-SA6-SS-0.0-0.5	07.15.11	0800	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-126-SA6-SS-0.0-0.5	07.15.11	1435	SOIL	NONE	1-SS Sleeve			X	X																	
SL-126-SA6-SS-0.0-0.5	07.15.11	1435	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X	X						X	X	X	
SL-302-SA6-SS-0.0-0.5	07.15.11	0828	SOIL	NONE	1-SS Sleeve			X	X																	
SL-302-SA6-SS-0.0-0.5	07.15.11	0828	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X							X	X	
SL-303-SA6-SS-0.0-0.5	07.15.11	0855	SOIL	NONE	1-SS Sleeve			X	X																	
SL-303-SA6-SS-0.0-0.5	07.15.11	0855	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-304-SA6-SS-0.0-0.5	07.15.11	0914	SOIL	NONE	1-SS Sleeve			X	X																	
SL-304-SA6-SS-0.0-0.5	07.15.11	0914	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-286-SA6-SS-0.0-0.5MS	07.15.11	1454	SOIL	NONE	2-SS Sleeve			X	X																	
SL-286-SA6-SS-0.0-0.5MS	07.15.11	1454	SOIL	NONE	6-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
DUP03-SA6-QC-071511	07.15.11	1459	SOIL	NONE	1-SS Sleeve			X	X																	
DUP03-SA6-QC-071511	07.15.11	1459	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-056-SA6-SS-0.0-0.5	07.14.11	1522	SOIL	NONE	1-SS Sleeve			X	X																	Collected on 7/13/11
SL-056-SA6-SS-0.0-0.5	07.14.11	1522	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	Collected on 7/13/11
SL-058-SA6-SS-0.0-0.5	07.14.11	1502	SOIL	NONE	1-SS Sleeve			X	X																	Collected on 7/13/11
SL-058-SA6-SS-0.0-0.5	07.14.11	1502	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X							X	X	Collected on 7/13/11

MM 7/20/11

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	07/15/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8754 3340 5808,5819	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/18/2011
Group Number: 1256715
SDG: DX114
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-004-SA6-SS-0.0-0.5 Soil	6346993
SL-005-SA6-SS-0.0-0.5 Soil	6346994
SL-020-SA6-SS-0.0-0.5 Soil	6346995
SL-029-SA6-SS-0.0-0.5 Soil	6346996
SL-043-SA6-SS-0.0-0.5 Soil	6346997
SL-044-SA6-SS-0.0-0.5 Soil	6346998
SL-126-SA6-SS-0.0-0.5 Soil	6346999
SL-302-SA6-SS-0.0-0.5 Soil	6347000
SL-303-SA6-SS-0.0-0.5 Soil	6347001
SL-304-SA6-SS-0.0-0.5 Soil	6347002
SL-286-SA6-SS-0.0-0.5 Soil	6347003
SL-286-SA6-SS-0.0-0.5MS Soil	6347004
SL-286-SA6-SS-0.0-0.5MSD Soil	6347005
DUP03-SA6-QC-071511 Soil	6347006
SL-056-SA6-SS-0.0-0.5 Soil	6347007
SL-058-SA6-SS-0.0-0.5 Soil	6347008

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC	CDM Federal Services Program	Attn: Todd Burgesser
COPY TO		
ELECTRONIC	Data Package Group	

Lancaster Laboratories

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Analysis Report

COPY TO

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA6-SS-0.0-0.5

LLI Sample # SW 6346993
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 11:16

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1401 SDG#: DX114-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA6-SS-0.0-0.5

LLI Sample # SW 6346993
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 11:16

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1401 SDG#: DX114-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0866	JQ	0.0155	0.989	1
11031	12378-PeCDD	40321-76-4	0.996	JB	0.0506	4.95	1
11031	123478-HxCDD	39227-28-6	2.08	JB	0.0945	4.95	1
11031	123678-HxCDD	57653-85-7	14.8	B	0.0981	4.95	1
11031	123789-HxCDD	19408-74-3	4.87	JB	0.0977	4.95	1
11031	1234678-HpCDD	35822-46-9	447	B	0.284	4.95	1
11031	OCDD	3268-87-9	8,530	EB	0.165	9.89	1
11650	2378-TCDF-Conf	51207-31-9	1.03	BC	0.0404	0.989	1
11031	12378-PeCDF	57117-41-6	1.25	JB	0.0612	4.95	1
11031	23478-PeCDF	57117-31-4	2.88	JB	0.0611	4.95	1
11031	123478-HxCDF	70648-26-9	3.89	JB	0.0869	4.95	1
11031	123678-HxCDF	57117-44-9	3.01	JB	0.0801	4.95	1
11031	123789-HxCDF	72918-21-9	0.724	JB	0.0834	4.95	1
11031	234678-HxCDF	60851-34-5	4.79	JB	0.0728	4.95	1
11031	1234678-HpCDF	67562-39-4	61.4	B	0.0606	4.95	1
11031	1234789-HpCDF	55673-89-7	9.38	B	0.0840	4.95	1
11031	OCDF	39001-02-0	156	B	0.0466	9.89	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-2378-TCDF-Conf	78	24 - 169
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	80	17 - 157
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	67	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA6-SS-0.0-0.5

LLI Sample # SW 6346993
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 11:16

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1401 SDG#: DX114-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA6-SS-0.0-0.5

LLI Sample # SW 6346993
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 11:16

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1401 SDG#: DX114-01

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11209001	07/30/2011 21:57	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11209001	08/05/2011 20:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11209001	07/28/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA6-SS-0.0-0.5

LLI Sample # SW 6346994
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:50

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1402 SDG#: DX114-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA6-SS-0.0-0.5

LLI Sample # SW 6346994
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:50

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1402 SDG#: DX114-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.7		0.0459	0.991	1
11031	12378-PeCDD	40321-76-4	2.12	JB	0.136	4.96	1
11031	123478-HxCDD	39227-28-6	1.60	JB	0.0954	4.96	1
11031	123678-HxCDD	57653-85-7	4.99	B	0.101	4.96	1
11031	123789-HxCDD	19408-74-3	3.44	JB	0.0928	4.96	1
11031	1234678-HpCDD	35822-46-9	133	B	0.135	4.96	1
11031	OCDD	3268-87-9	1,320	B	0.144	9.91	1
11650	2378-TCDF-Conf	51207-31-9	10.8	BC	0.102	0.991	1
11031	12378-PeCDF	57117-41-6	28.5	B	0.192	4.96	1
11031	23478-PeCDF	57117-31-4	22.1	BQ	0.183	4.96	1
11031	123478-HxCDF	70648-26-9	13.1	B	0.213	4.96	1
11031	123678-HxCDF	57117-44-9	9.85	B	0.194	4.96	1
11031	123789-HxCDF	72918-21-9	1.45	JB	0.169	4.96	1
11031	234678-HxCDF	60851-34-5	4.72	JB	0.145	4.96	1
11031	1234678-HpCDF	67562-39-4	30.7	B	0.0803	4.96	1
11031	1234789-HpCDF	55673-89-7	3.14	JB	0.0800	4.96	1
11031	OCDF	39001-02-0	61.1	B	0.0797	9.91	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-2378-TCDF-Conf	76	24 - 169
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	43	17 - 157
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	52	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	38	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-005-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA6-SS-0.0-0.5

LLI Sample # SW 6346994
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:50

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1402 SDG#: DX114-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA6-SS-0.0-0.5

LLI Sample # SW 6346994
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 10:50

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1402 SDG#: DX114-02

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11209001	07/30/2011 22:54	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11209001	08/05/2011 21:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11209001	07/28/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA6-SS-0.0-0.5

LLI Sample # SW 6346995
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 12:57

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1403 SDG#: DX114-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA6-SS-0.0-0.5

LLI Sample # SW 6346995
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 12:57

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1403 SDG#: DX114-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	3.89	0.137	1.02	1
11031	12378-PeCDD	40321-76-4	24.0 B	0.283	5.11	1
11031	123478-HxCDD	39227-28-6	43.8 B	0.208	5.11	1
11031	123678-HxCDD	57653-85-7	175 B	0.213	5.11	1
11031	123789-HxCDD	19408-74-3	102 B	0.210	5.11	1
11031	1234678-HpCDD	35822-46-9	4,970 EB	0.581	5.11	1
11031	OCDD	3268-87-9	64,000 EB	0.392	10.2	1
11650	2378-TCDF-Conf	51207-31-9	22.9 BC	0.0708	1.02	1
11031	12378-PeCDF	57117-41-6	21.3 B	0.149	5.11	1
11031	23478-PeCDF	57117-31-4	38.1 B	0.136	5.11	1
11031	123478-HxCDF	70648-26-9	63.0 B	0.251	5.11	1
11031	123678-HxCDF	57117-44-9	43.1 B	0.247	5.11	1
11031	123789-HxCDF	72918-21-9	8.93 B	0.206	5.11	1
11031	234678-HxCDF	60851-34-5	50.7 B	0.177	5.11	1
11031	1234678-HpCDF	67562-39-4	546 B	0.166	5.11	1
11031	1234789-HpCDF	55673-89-7	68.9 B	0.183	5.11	1
11031	OCDF	39001-02-0	1,190 B	0.117	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-2378-TCDF-Conf	75	24 - 169
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	65	17 - 157
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	53	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	73	29 - 147

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA6-SS-0.0-0.5

LLI Sample # SW 6346995
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 12:57

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1403 SDG#: DX114-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-1234678-HpCDF	60	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA6-SS-0.0-0.5

LLI Sample # SW 6346995
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 12:57

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1403 SDG#: DX114-03

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11209001	07/30/2011 23:51	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11209001	08/05/2011 22:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11209001	07/28/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-029-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA6-SS-0.0-0.5

LLI Sample # SW 6346996
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:26

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1404 SDG#: DX114-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-029-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA6-SS-0.0-0.5

LLI Sample # SW 6346996
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:26

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1404 SDG#: DX114-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0595	J	0.0190	0.985	1
11031	12378-PeCDD	40321-76-4	0.387	JBQ	0.0469	4.92	1
11031	123478-HxCDD	39227-28-6	0.699	JB	0.0752	4.92	1
11031	123678-HxCDD	57653-85-7	2.18	JB	0.0780	4.92	1
11031	123789-HxCDD	19408-74-3	1.52	JB	0.0706	4.92	1
11031	1234678-HpCDD	35822-46-9	63.7	B	0.118	4.92	1
11031	OCDD	3268-87-9	676	B	0.110	9.85	1
11650	2378-TCDF-Conf	51207-31-9	1.59	BC	0.0596	0.985	1
11031	12378-PeCDF	57117-41-6	1.48	JB	0.0647	4.92	1
11031	23478-PeCDF	57117-31-4	3.13	JB	0.0759	4.92	1
11031	123478-HxCDF	70648-26-9	4.23	JB	0.0877	4.92	1
11031	123678-HxCDF	57117-44-9	1.07	JB	0.0729	4.92	1
11031	123789-HxCDF	72918-21-9	0.327	JB	0.0915	4.92	1
11031	234678-HxCDF	60851-34-5	1.09	JB	0.0618	4.92	1
11031	1234678-HpCDF	67562-39-4	13.2	B	0.0442	4.92	1
11031	1234789-HpCDF	55673-89-7	1.05	JB	0.0815	4.92	1
11031	OCDF	39001-02-0	38.3	B	0.0522	9.85	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-2378-TCDF-Conf	65	24 - 169
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	64	17 - 157
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	42	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-029-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA6-SS-0.0-0.5

LLI Sample # SW 6346996
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:26

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1404 SDG#: DX114-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-029-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA6-SS-0.0-0.5

LLI Sample # SW 6346996
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 13:26

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1404 SDG#: DX114-04

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11209001	07/31/2011 00:47	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11209001	08/05/2011 23:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11209001	07/28/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-043-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA6-SS-0.0-0.5

LLI Sample # SW 6346997
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 07:41

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1405 SDG#: DX114-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-043-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA6-SS-0.0-0.5

LLI Sample # SW 6346997
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 07:41

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1405 SDG#: DX114-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0818	JQ	0.0149	1.01	1
11031	12378-PeCDD	40321-76-4	0.416	JBQ	0.0320	5.04	1
11031	123478-HxCDD	39227-28-6	0.731	JB	0.0716	5.04	1
11031	123678-HxCDD	57653-85-7	2.36	JB	0.0741	5.04	1
11031	123789-HxCDD	19408-74-3	1.77	JB	0.0690	5.04	1
11031	1234678-HpCDD	35822-46-9	77.0	B	0.103	5.04	1
11031	OCDD	3268-87-9	796	B	0.0939	10.1	1
11031	2378-TCDF	51207-31-9	0.128	JB	0.0230	1.01	1
11031	12378-PeCDF	57117-41-6	0.228	JBQ	0.0210	5.04	1
11031	23478-PeCDF	57117-31-4	0.533	JB	0.0220	5.04	1
11031	123478-HxCDF	70648-26-9	0.860	JB	0.0547	5.04	1
11031	123678-HxCDF	57117-44-9	0.475	JB	0.0474	5.04	1
11031	123789-HxCDF	72918-21-9	0.495	JB	0.0459	5.04	1
11031	234678-HxCDF	60851-34-5	0.542	JB	0.0385	5.04	1
11031	1234678-HpCDF	67562-39-4	7.15	B	0.0401	5.04	1
11031	1234789-HpCDF	55673-89-7	0.422	JB	0.0542	5.04	1
11031	OCDF	39001-02-0	13.3	B	0.0467	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	50	26 - 152
13C12-123678-HxCDF	55	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	49	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-043-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA6-SS-0.0-0.5

LLI Sample # SW 6346997
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 07:41

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1405 SDG#: DX114-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-043-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA6-SS-0.0-0.5

LLI Sample # SW 6346997
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 07:41

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1405 SDG#: DX114-05

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11209001	07/31/2011 01:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11209001	07/28/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-044-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA6-SS-0.0-0.5

LLI Sample # SW 6346998
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:00

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1406 SDG#: DX114-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-044-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA6-SS-0.0-0.5

LLI Sample # SW 6346998
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:00

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1406 SDG#: DX114-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.332	J	0.0171	1.01	1
11031	12378-PeCDD	40321-76-4	2.00	JB	0.0666	5.05	1
11031	123478-HxCDD	39227-28-6	4.57	JB	0.0883	5.05	1
11031	123678-HxCDD	57653-85-7	16.5	B	0.0934	5.05	1
11031	123789-HxCDD	19408-74-3	8.49	B	0.0863	5.05	1
11031	1234678-HpCDD	35822-46-9	520	B	0.242	5.05	1
11031	OCDD	3268-87-9	6,250	EB	0.181	10.1	1
11031	2378-TCDF	51207-31-9	0.337	JB	0.0346	1.01	1
11031	12378-PeCDF	57117-41-6	1.48	JB	0.0371	5.05	1
11031	23478-PeCDF	57117-31-4	2.66	JB	0.0381	5.05	1
11031	123478-HxCDF	70648-26-9	4.28	JB	0.0792	5.05	1
11031	123678-HxCDF	57117-44-9	3.38	JB	0.0733	5.05	1
11031	123789-HxCDF	72918-21-9	2.83	JB	0.0830	5.05	1
11031	234678-HxCDF	60851-34-5	3.00	JB	0.0696	5.05	1
11031	1234678-HpCDF	67562-39-4	51.4	B	0.0613	5.05	1
11031	1234789-HpCDF	55673-89-7	2.83	JB	0.103	5.05	1
11031	OCDF	39001-02-0	51.4	B	0.0588	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	49	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-044-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA6-SS-0.0-0.5

LLI Sample # SW 6346998
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:00

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1406 SDG#: DX114-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-044-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA6-SS-0.0-0.5

LLI Sample # SW 6346998
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:00

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1406 SDG#: DX114-06

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11209001	07/31/2011 02:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11209001	07/28/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SS-0.0-0.5

LLI Sample # SW 6346999
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:35

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1407 SDG#: DX114-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.93	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SS-0.0-0.5

LLI Sample # SW 6346999
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:35

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1407 SDG#: DX114-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0554	J	0.0131	0.978	1
11031	12378-PeCDD	40321-76-4	0.424	JB	0.0313	4.89	1
11031	123478-HxCDD	39227-28-6	0.702	JB	0.0547	4.89	1
11031	123678-HxCDD	57653-85-7	1.86	JB	0.0571	4.89	1
11031	123789-HxCDD	19408-74-3	1.45	JB	0.0571	4.89	1
11031	1234678-HpCDD	35822-46-9	54.5	B	0.0755	4.89	1
11031	OCDD	3268-87-9	422	B	0.0630	9.78	1
11031	2378-TCDF	51207-31-9	0.672	JB	0.0823	0.978	1
11031	12378-PeCDF	57117-41-6	0.443	JB	0.0390	4.89	1
11031	23478-PeCDF	57117-31-4	0.690	JB	0.0372	4.89	1
11031	123478-HxCDF	70648-26-9	1.32	JB	0.0502	4.89	1
11031	123678-HxCDF	57117-44-9	0.531	JB	0.0476	4.89	1
11031	123789-HxCDF	72918-21-9	0.179	JB	0.0448	4.89	1
11031	234678-HxCDF	60851-34-5	0.540	JB	0.0403	4.89	1
11031	1234678-HpCDF	67562-39-4	10.5	B	0.0434	4.89	1
11031	1234789-HpCDF	55673-89-7	0.727	JB	0.0527	4.89	1
11031	OCDF	39001-02-0	31.6	B	0.0362	9.78	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SS-0.0-0.5

LLI Sample # SW 6346999
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:35

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1407 SDG#: DX114-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SS-0.0-0.5

LLI Sample # SW 6346999
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:35

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1407 SDG#: DX114-07

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11209001	07/31/2011 03:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11209001	07/28/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-302-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-302-SA6-SS-0.0-0.5

LLI Sample # SW 6347000
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:28

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1408 SDG#: DX114-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-302-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-302-SA6-SS-0.0-0.5

LLI Sample # SW 6347000
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:28

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1408 SDG#: DX114-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	2.14		0.0527	1.02	1
11031	12378-PeCDD	40321-76-4	2.60	JB	0.127	5.12	1
11031	123478-HxCDD	39227-28-6	5.94	B	0.116	5.12	1
11031	123678-HxCDD	57653-85-7	21.9	B	0.119	5.12	1
11031	123789-HxCDD	19408-74-3	11.9	B	0.119	5.12	1
11031	1234678-HpCDD	35822-46-9	741	B	0.286	5.12	1
11031	OCDD	3268-87-9	7,830	EB	0.187	10.2	1
11650	2378-TCDF-Conf	51207-31-9	1.35	BC	0.0637	1.02	1
11031	12378-PeCDF	57117-41-6	2.40	JB	0.0748	5.12	1
11031	23478-PeCDF	57117-31-4	4.39	JB	0.0749	5.12	1
11031	123478-HxCDF	70648-26-9	5.89	B	0.0900	5.12	1
11031	123678-HxCDF	57117-44-9	4.43	JB	0.0812	5.12	1
11031	123789-HxCDF	72918-21-9	3.88	JB	0.111	5.12	1
11031	234678-HxCDF	60851-34-5	4.62	JB	0.0895	5.12	1
11031	1234678-HpCDF	67562-39-4	66.9	B	0.0756	5.12	1
11031	1234789-HpCDF	55673-89-7	3.89	JB	0.136	5.12	1
11031	OCDF	39001-02-0	84.1	B	0.0628	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-2378-TCDF-Conf	81	24 - 169
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	74	17 - 157
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	52	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-302-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-302-SA6-SS-0.0-0.5

LLI Sample # SW 6347000
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:28

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1408 SDG#: DX114-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-302-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-302-SA6-SS-0.0-0.5

LLI Sample # SW 6347000
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:28

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1408 SDG#: DX114-08

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11209001	07/31/2011 07:36	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11209001	08/06/2011 00:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11209001	07/28/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

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Analysis Report

Sample Description: SL-303-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-303-SA6-SS-0.0-0.5

LLI Sample # SW 6347001
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:55

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1409 SDG#: DX114-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-303-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-303-SA6-SS-0.0-0.5

LLI Sample # SW 6347001
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:55

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1409 SDG#: DX114-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.464	J	0.0298	1.02	1
11031	12378-PeCDD	40321-76-4	2.54	JB	0.100	5.09	1
11031	123478-HxCDD	39227-28-6	4.84	JB	0.112	5.09	1
11031	123678-HxCDD	57653-85-7	17.3	B	0.117	5.09	1
11031	123789-HxCDD	19408-74-3	9.94	B	0.110	5.09	1
11031	1234678-HpCDD	35822-46-9	517	B	0.256	5.09	1
11031	OCDD	3268-87-9	5,780	EB	0.154	10.2	1
11650	2378-TCDF-Conf	51207-31-9	0.885	JBCQ	0.0673	1.02	1
11031	12378-PeCDF	57117-41-6	1.59	JB	0.0867	5.09	1
11031	23478-PeCDF	57117-31-4	4.41	JB	0.0855	5.09	1
11031	123478-HxCDF	70648-26-9	4.48	JB	0.0885	5.09	1
11031	123678-HxCDF	57117-44-9	3.40	JB	0.0853	5.09	1
11031	123789-HxCDF	72918-21-9	0.0957	U	0.0957	5.09	1
11031	234678-HxCDF	60851-34-5	3.31	JB	0.0799	5.09	1
11031	1234678-HpCDF	67562-39-4	54.0	B	0.0646	5.09	1
11031	1234789-HpCDF	55673-89-7	2.84	JB	0.0884	5.09	1
11031	OCDF	39001-02-0	64.4	B	0.0468	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-2378-TCDF-Conf	74	24 - 169
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	70	17 - 157
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-303-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-303-SA6-SS-0.0-0.5

LLI Sample # SW 6347001
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:55

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1409 SDG#: DX114-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-303-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-303-SA6-SS-0.0-0.5

LLI Sample # SW 6347001
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 08:55

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1409 SDG#: DX114-09

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11209001	07/31/2011 08:33	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11209001	08/06/2011 02:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11209001	07/28/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

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Analysis Report

Sample Description: SL-304-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-304-SA6-SS-0.0-0.5

LLI Sample # SW 6347002
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:14

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1410 SDG#: DX114-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-304-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-304-SA6-SS-0.0-0.5

LLI Sample # SW 6347002
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:14

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X1410 SDG#: DX114-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.250	J	0.0274	1.02	1
11031	12378-PeCDD	40321-76-4	1.33	JB	0.0893	5.12	1
11031	123478-HxCDD	39227-28-6	2.57	JB	0.0927	5.12	1
11031	123678-HxCDD	57653-85-7	8.70	B	0.0925	5.12	1
11031	123789-HxCDD	19408-74-3	5.81	B	0.0916	5.12	1
11031	1234678-HpCDD	35822-46-9	264	B	0.209	5.12	1
11031	OCDD	3268-87-9	2,850	B	0.134	10.2	1
11031	2378-TCDF	51207-31-9	0.723	JB	0.136	1.02	1
11031	12378-PeCDF	57117-41-6	0.941	JB	0.0690	5.12	1
11031	23478-PeCDF	57117-31-4	1.97	JB	0.0724	5.12	1
11031	123478-HxCDF	70648-26-9	2.31	JB	0.0828	5.12	1
11031	123678-HxCDF	57117-44-9	1.77	JB	0.0709	5.12	1
11031	123789-HxCDF	72918-21-9	1.38	JB	0.0983	5.12	1
11031	234678-HxCDF	60851-34-5	1.91	JB	0.0806	5.12	1
11031	1234678-HpCDF	67562-39-4	23.3	B	0.0595	5.12	1
11031	1234789-HpCDF	55673-89-7	1.49	JB	0.114	5.12	1
11031	OCDF	39001-02-0	32.8	B	0.0723	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	61	25 - 164
13C12-12378-PeCDD	60	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	63	28 - 130
13C12-123789-HxCDD	64	28 - 130
13C12-1234678-HpCDD	62	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	51	24 - 169
13C12-12378-PeCDF	56	24 - 185
13C12-23478-PeCDF	50	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	53	28 - 136
13C12-123789-HxCDF	49	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	44	26 - 138
13C12-OCDF	38	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-304-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-304-SA6-SS-0.0-0.5

LLI Sample # SW 6347002
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:14

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1410 SDG#: DX114-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-304-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-304-SA6-SS-0.0-0.5

LLI Sample # SW 6347002
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 09:14

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1410 SDG#: DX114-10

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11209001	07/31/2011 09:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11209001	07/28/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-286-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6347003
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1411 SDG#: DX114-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.88	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-286-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6347003
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1411 SDG#: DX114-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0432	JQ	0.0131	0.999	1
11031	12378-PeCDD	40321-76-4	0.210	JB	0.0318	4.99	1
11031	123478-HxCDD	39227-28-6	0.526	JB	0.0528	4.99	1
11031	123678-HxCDD	57653-85-7	2.20	JB	0.0552	4.99	1
11031	123789-HxCDD	19408-74-3	0.898	JB	0.0519	4.99	1
11031	1234678-HpCDD	35822-46-9	147	B	0.147	4.99	1
11031	OCDD	3268-87-9	2,100	B	0.0955	9.99	1
11031	2378-TCDF	51207-31-9	0.765	JB	0.120	0.999	1
11031	12378-PeCDF	57117-41-6	1.70	JB	0.0569	4.99	1
11031	23478-PeCDF	57117-31-4	1.30	JB	0.0616	4.99	1
11031	123478-HxCDF	70648-26-9	3.34	JB	0.0750	4.99	1
11031	123678-HxCDF	57117-44-9	1.13	JB	0.0645	4.99	1
11031	123789-HxCDF	72918-21-9	0.0804	U	0.0804	4.99	1
11031	234678-HxCDF	60851-34-5	1.14	JB	0.0640	4.99	1
11031	1234678-HpCDF	67562-39-4	17.7	B	0.0396	4.99	1
11031	1234789-HpCDF	55673-89-7	1.27	JB	0.0684	4.99	1
11031	OCDF	39001-02-0	32.2	B	0.0431	9.99	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	57	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	46	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-286-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6347003
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1411 SDG#: DX114-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-286-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6347003
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1411 SDG#: DX114-11BKG

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11209001	07/31/2011 10:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11209001	07/28/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-286-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6347004
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1411 SDG#: DX114-11MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.88	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-286-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6347004
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1411 SDG#: DX114-11MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	17.8		0.0247	0.988	1
11031	12378-PeCDD	40321-76-4	90.2	B	0.0380	4.94	1
11031	123478-HxCDD	39227-28-6	90.3	B	0.0386	4.94	1
11031	123678-HxCDD	57653-85-7	87.9	B	0.0385	4.94	1
11031	123789-HxCDD	19408-74-3	86.6	B	0.0367	4.94	1
11031	1234678-HpCDD	35822-46-9	134	B	0.0636	4.94	1
11031	OCDD	3268-87-9	749	B	0.0580	9.88	1
11031	2378-TCDF	51207-31-9	17.3	B	0.0745	0.988	1
11031	12378-PeCDF	57117-41-6	83.7	B	0.0378	4.94	1
11031	23478-PeCDF	57117-31-4	82.6	B	0.0388	4.94	1
11031	123478-HxCDF	70648-26-9	85.2	B	0.0545	4.94	1
11031	123678-HxCDF	57117-44-9	82.3	B	0.0487	4.94	1
11031	123789-HxCDF	72918-21-9	82.7	B	0.0653	4.94	1
11031	234678-HxCDF	60851-34-5	84.3	B	0.0528	4.94	1
11031	1234678-HpCDF	67562-39-4	89.9	B	0.0350	4.94	1
11031	1234789-HpCDF	55673-89-7	84.8	B	0.0546	4.94	1
11031	OCDF	39001-02-0	180	B	0.0517	9.88	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	60	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	54	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-286-SA6-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6347004
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1411 SDG#: DX114-11MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-286-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6347004
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1411 SDG#: DX114-11MS

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11209001	08/02/2011 23:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11209001	07/28/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

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Analysis Report

Sample Description: SL-286-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6347005
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1411 SDG#: DX114-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.88	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-286-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6347005
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1411 SDG#: DX114-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	15.7		0.0275	0.970	1
11031	12378-PeCDD	40321-76-4	84.2	B	0.0494	4.85	1
11031	123478-HxCDD	39227-28-6	84.6	B	0.0997	4.85	1
11031	123678-HxCDD	57653-85-7	85.1	B	0.104	4.85	1
11031	123789-HxCDD	19408-74-3	83.4	B	0.0976	4.85	1
11031	1234678-HpCDD	35822-46-9	127	B	0.0933	4.85	1
11031	OCDD	3268-87-9	697	B	0.0831	9.70	1
11031	2378-TCDF	51207-31-9	16.9	B	0.0959	0.970	1
11031	12378-PeCDF	57117-41-6	83.9	B	0.0594	4.85	1
11031	23478-PeCDF	57117-31-4	83.7	B	0.0612	4.85	1
11031	123478-HxCDF	70648-26-9	89.6	B	0.107	4.85	1
11031	123678-HxCDF	57117-44-9	88.7	B	0.0978	4.85	1
11031	123789-HxCDF	72918-21-9	87.8	B	0.129	4.85	1
11031	234678-HxCDF	60851-34-5	89.2	B	0.0973	4.85	1
11031	1234678-HpCDF	67562-39-4	92.8	B	0.0479	4.85	1
11031	1234789-HpCDF	55673-89-7	88.0	B	0.0784	4.85	1
11031	OCDF	39001-02-0	191	B	0.0650	9.70	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	44	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-286-SA6-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6347005
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1411 SDG#: DX114-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-286-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA6-SS-0.0-0.5

LLI Sample # SW 6347005
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:54

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1411 SDG#: DX114-11MSD

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11209001	07/31/2011 12:19	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11209001	07/28/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP03-SA6-QC-071511 Soil
SSFL Area IV Collocated Soil Sampling
DUP03-SA6-QC-071511

LLI Sample # SW 6347006
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:59

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1412 SDG#: DX114-12FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.81	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP03-SA6-QC-071511 Soil
SSFL Area IV Collocated Soil Sampling
DUP03-SA6-QC-071511

LLI Sample # SW 6347006
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:59

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1412 SDG#: DX114-12FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0368	JQ	0.0140	0.996	1
11031	12378-PeCDD	40321-76-4	0.214	JBQ	0.0298	4.98	1
11031	123478-HxCDD	39227-28-6	0.454	JB	0.0846	4.98	1
11031	123678-HxCDD	57653-85-7	1.26	JB	0.0848	4.98	1
11031	123789-HxCDD	19408-74-3	0.815	JB	0.0835	4.98	1
11031	1234678-HpCDD	35822-46-9	50.6	B	0.106	4.98	1
11031	OCDD	3268-87-9	593	B	0.0945	9.96	1
11031	2378-TCDF	51207-31-9	0.659	JB	0.127	0.996	1
11031	12378-PeCDF	57117-41-6	2.84	JB	0.0602	4.98	1
11031	23478-PeCDF	57117-31-4	1.21	JB	0.0647	4.98	1
11031	123478-HxCDF	70648-26-9	2.94	JB	0.0710	4.98	1
11031	123678-HxCDF	57117-44-9	0.757	JB	0.0619	4.98	1
11031	123789-HxCDF	72918-21-9	0.339	JB	0.0820	4.98	1
11031	234678-HxCDF	60851-34-5	0.640	JB	0.0687	4.98	1
11031	1234678-HpCDF	67562-39-4	7.54	B	0.0409	4.98	1
11031	1234789-HpCDF	55673-89-7	0.779	JBQ	0.0733	4.98	1
11031	OCDF	39001-02-0	15.4	B	0.0529	9.96	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	40	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP03-SA6-QC-071511 Soil
SSFL Area IV Collocated Soil Sampling
DUP03-SA6-QC-071511

LLI Sample # SW 6347006
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:59

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1412 SDG#: DX114-12FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP03-SA6-QC-071511 Soil
SSFL Area IV Collocated Soil Sampling
DUP03-SA6-QC-071511

LLI Sample # SW 6347006
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/14/2011 14:59

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1412 SDG#: DX114-12FD

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11209001	07/31/2011 13:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11209001	07/28/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-056-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA6-SS-0.0-0.5

LLI Sample # SW 6347007
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:22

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1413 SDG#: DX114-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.91	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-056-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA6-SS-0.0-0.5

LLI Sample # SW 6347007
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:22

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1413 SDG#: DX114-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0237	JQ	0.0168	1.01	1
11031	12378-PeCDD	40321-76-4	0.269	JBQ	0.0641	5.04	1
11031	123478-HxCDD	39227-28-6	0.206	JB	0.0534	5.04	1
11031	123678-HxCDD	57653-85-7	0.715	JB	0.0549	5.04	1
11031	123789-HxCDD	19408-74-3	0.481	JB	0.0518	5.04	1
11031	1234678-HpCDD	35822-46-9	21.7	B	0.0646	5.04	1
11031	OCDD	3268-87-9	303	B	0.0498	10.1	1
11650	2378-TCDF-Conf	51207-31-9	3.35	BC	0.0856	1.01	1
11031	12378-PeCDF	57117-41-6	11.8	B	0.130	5.04	1
11031	23478-PeCDF	57117-31-4	6.23	B	0.150	5.04	1
11031	123478-HxCDF	70648-26-9	10.8	B	0.101	5.04	1
11031	123678-HxCDF	57117-44-9	1.57	JB	0.0833	5.04	1
11031	123789-HxCDF	72918-21-9	0.441	JBQ	0.124	5.04	1
11031	234678-HxCDF	60851-34-5	1.33	JB	0.0912	5.04	1
11031	1234678-HpCDF	67562-39-4	7.93	B	0.0281	5.04	1
11031	1234789-HpCDF	55673-89-7	0.924	JBQ	0.0601	5.04	1
11031	OCDF	39001-02-0	17.3	B	0.0479	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-2378-TCDF-Conf	61	24 - 169
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	66	17 - 157
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	54	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	58	28 - 136
13C12-123789-HxCDF	52	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	46	26 - 138
13C12-OCDF	40	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-056-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA6-SS-0.0-0.5

LLI Sample # SW 6347007
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:22

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1413 SDG#: DX114-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-056-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA6-SS-0.0-0.5

LLI Sample # SW 6347007
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:22

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1413 SDG#: DX114-13

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11209001	07/31/2011 14:12	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11209001	08/06/2011 06:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11209001	07/28/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-058-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA6-SS-0.0-0.5

LLI Sample # SW 6347008
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:02

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1414 SDG#: DX114-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.96	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-058-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA6-SS-0.0-0.5

LLI Sample # SW 6347008
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:02

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1414 SDG#: DX114-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0637	JQ	0.0123	0.988	1
11031	12378-PeCDD	40321-76-4	0.252	JB	0.0262	4.94	1
11031	123478-HxCDD	39227-28-6	0.537	JB	0.0784	4.94	1
11031	123678-HxCDD	57653-85-7	2.44	JB	0.0818	4.94	1
11031	123789-HxCDD	19408-74-3	1.58	JB	0.0767	4.94	1
11031	1234678-HpCDD	35822-46-9	105	B	0.0969	4.94	1
11031	OCDD	3268-87-9	1,220	B	0.0907	9.88	1
11031	2378-TCDF	51207-31-9	0.0786	U	0.0786	0.988	1
11031	12378-PeCDF	57117-41-6	0.802	JB	0.0357	4.94	1
11031	23478-PeCDF	57117-31-4	0.429	JB	0.0405	4.94	1
11031	123478-HxCDF	70648-26-9	1.39	JB	0.0614	4.94	1
11031	123678-HxCDF	57117-44-9	0.774	JB	0.0501	4.94	1
11031	123789-HxCDF	72918-21-9	0.157	JB	0.0752	4.94	1
11031	234678-HxCDF	60851-34-5	0.929	JB	0.0566	4.94	1
11031	1234678-HpCDF	67562-39-4	32.1	B	0.0413	4.94	1
11031	1234789-HpCDF	55673-89-7	1.29	JB	0.0932	4.94	1
11031	OCDF	39001-02-0	117	B	0.0633	9.88	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	57	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	56	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	60	28 - 136
13C12-123789-HxCDF	53	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	45	26 - 138
13C12-OCDF	40	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-058-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA6-SS-0.0-0.5

LLI Sample # SW 6347008
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:02

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1414 SDG#: DX114-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-058-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA6-SS-0.0-0.5

LLI Sample # SW 6347008
LLI Group # 1256715
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/13/2011 15:02

Submitted: 07/18/2011 08:20
Reported: 08/12/2011 12:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1414 SDG#: DX114-14

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 16.0-17.6 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11209001	07/31/2011 15:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11209001	07/28/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401A	07/25/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256715
Reported: 08/12/11 at 12:23 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11206162401A	Sample number(s): 6346993-6347008								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11209001	Sample number(s): 6346993-6347008								
2378-TCDD	0.0126 U	0.0126	1.00	ng/kg	85		67-158		
12378-PeCDD	0.0309 J	0.0125	5.00	ng/kg	90		70-142		
123478-HxCDD	0.0135 J	0.00950	5.00	ng/kg	93		70-164		
123678-HxCDD	0.0232 J	0.00990	5.00	ng/kg	91		76-134		
123789-HxCDD	0.0330 J	0.00900	5.00	ng/kg	92		64-162		
1234678-HpCDD	0.228 J	0.0161	5.00	ng/kg	91		70-140		
OCDD	0.485 J	0.0227	10.0	ng/kg	92		78-144		
2378-TCDF	0.0129 J	0.0123	1.00	ng/kg	99		75-158		
2378-TCDF-Conf	0.0404 U	0.0404	1.00	ng/kg	99		75-158		
12378-PeCDF	0.0241 J	0.00660	5.00	ng/kg	90		80-134		
23478-PeCDF	0.0487 J	0.00720	5.00	ng/kg	92		68-160		
123478-HxCDF	0.0396 J	0.00940	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0322 J	0.00750	5.00	ng/kg	94		84-130		
123789-HxCDF	0.0727 J	0.0109	5.00	ng/kg	95		78-130		
234678-HxCDF	0.0357 J	0.00760	5.00	ng/kg	94		70-156		
1234678-HpCDF	0.0803 J	0.00590	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0699 J	0.0114	5.00	ng/kg	94		78-138		
OCDF	0.177 J	0.0224	10.0	ng/kg	95		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11206162401A	Sample number(s): 6346993-6347008					BKG: P346970			
Moisture Content by 160.3						0.88	0.87	1 (1)	20
Batch number: 11209001	Sample number(s): 6346993-6347008					UNSPK: 6347003			
2378-TCDD	90	81	67-158	13	25				
12378-PeCDD	91	87	70-142	7	25				
123478-HxCDD	91	87	70-164	6	25				
123678-HxCDD	87	85	76-134	3	25				
123789-HxCDD	87	85	64-162	4	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256715
Reported: 08/12/11 at 12:23 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1234678-HpCDD	-11*	-19*	70-140	5	25				
OCDD	-682 (2)	-721 (2)	78-144	7	25				
2378-TCDF	84	83	75-158	2	25				
2378-TCDF-Conf	84	83	75-158	2	25				
12378-PeCDF	83	85	80-134	0	25				
23478-PeCDF	82	85	68-160	1	25				
123478-HxCDF	83	89	72-134	5	25				
123678-HxCDF	82*	90	84-130	8	25				
123789-HxCDF	84	91	78-130	6	25				
234678-HxCDF	84	91	70-156	6	25				
1234678-HpCDF	73*	77*	82-122	3	25				
1234789-HpCDF	85	89	78-138	4	25				
OCDF	75	82	63-170	6	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11209001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6346993	81	72	66	71	76	80
6346994	78	68	54	57	74	72
6346995	81	73	52	53	77	73
6346996	75	62	49	60	66	56
6346997	77	66	50	55	70	66
6346998	75	66	66	70	72	71
6346999	78	69	60	63	75	77
6347000	85	71	77	84	78	74
6347001	80	67	73	74	74	78
6347002	61	50	51	59	53	49
6347003	70	57	55	64	61	60
6347004	77	67	60	66	60	57
6347005	79	62	66	71	67	64
6347006	74	58	63	71	64	62
6347007	70	54	55	67	58	52
6347008	72	56	57	69	60	53
Blank	64	53	52	63	60	51
MS	77	67	60	66	60	57
MSD	79	62	66	71	67	64
OPR	80	70	65	79	76	70
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6346993	79	72	67	80	82	82

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256715
Reported: 08/12/11 at 12:23 PM

Surrogate Quality Control

6346994	52	61	38	74	76	74
6346995	60	69	59	79	82	82
6346996	74	50	42	76	77	75
6346997	65	58	49	76	76	74
6346998	76	56	49	73	78	76
6346999	68	67	59	74	79	78
6347000	89	62	52	82	89	89
6347001	76	68	58	76	84	81
6347002	65	44	38	60	63	63
6347003	72	52	46	68	74	71
6347004	77	56	54	76	74	76
6347005	76	56	44	73	80	78
6347006	74	50	40	70	77	76
6347007	82	46	40	71	76	74
6347008	80	45	40	72	77	75
Blank	80	48	43	68	75	72
MS	77	56	54	76	74	76
MSD	76	56	44	73	80	78
OPR	98	62	54	85	90	92
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6346993	84	84	80		76	78
6346994	78	66	43		70	76
6346995	82	79	65		75	75
6346996	80	75	64		75	65
6346997	79	75	66	68	74	
6346998	78	74	67	68	71	
6346999	79	75	67	72	72	
6347000	89	85	74		77	81
6347001	83	80	70		69	74
6347002	64	62	55	51	56	
6347003	73	72	64	60	63	
6347004	76	77	76	70	74	
6347005	80	73	59	66	68	
6347006	76	69	55	63	65	
6347007	75	73	66		66	61
6347008	76	72	62	57	66	
Blank	76	74	65	50	61	54
MS	76	77	76	70	74	70
MSD	80	73	59	66	68	66
OPR	92	90	77	65	78	65
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013/125715/6346993-7008

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-004-SA6-SS-0.0-0.5	07.14.11	1116	SOIL	NONE	1-SS Sleeve			X	X																	
SL-004-SA6-SS-0.0-0.5	07.14.11	1116	SOIL	NONE	1-15 oz.jar	X	X			X	X	X	X		X	X										
SL-005-SA6-SS-0.0-0.5	07.14.11	1050	SOIL	NONE	1-SS Sleeve			X	X																	
SL-005-SA6-SS-0.0-0.5	07.14.11	1050	SOIL	NONE	1-15 oz.jar	X	X			X	X	X	X		X	X										
SL-020-SA6-SS-0.0-0.5	07.14.11	1257	SOIL	NONE	1-SS Sleeve			X	X																	
SL-020-SA6-SS-0.0-0.5	07.14.11	1257	SOIL	NONE	1-15 oz.jar	X	X			X	X	X	X		X	X										
SL-029-SA6-SS-0.0-0.5	07.14.11	1326	SOIL	NONE	1-SS Sleeve			X	X																	
SL-029-SA6-SS-0.0-0.5	07.14.11	1326	SOIL	NONE	1-15 oz.jar	X	X			X	X	X	X		X	X										
SL-043-SA6-SS-0.0-0.5	07.14.11	0741	SOIL	NONE	1-SS Sleeve			X	X																	
SL-043-SA6-SS-0.0-0.5	07.14.11	0741	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-044-SA6-SS-0.0-0.5	07.14.11	0900	SOIL	NONE	1-SS Sleeve			X	X																	
SL-044-SA6-SS-0.0-0.5	07.14.11	0900	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-126-SA6-SS-0.0-0.5	07.14.11	1435	SOIL	NONE	1-SS Sleeve			X	X																	
SL-126-SA6-SS-0.0-0.5	07.14.11	1435	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X	X						X	X	X	
SL-302-SA6-SS-0.0-0.5	07.14.11	0828	SOIL	NONE	1-SS Sleeve			X	X																	
SL-302-SA6-SS-0.0-0.5	07.14.11	0828	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X							X	X	
SL-303-SA6-SS-0.0-0.5	07.14.11	0855	SOIL	NONE	1-SS Sleeve			X	X																	
SL-303-SA6-SS-0.0-0.5	07.14.11	0855	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-304-SA6-SS-0.0-0.5	07.14.11	0914	SOIL	NONE	1-SS Sleeve			X	X																	
SL-304-SA6-SS-0.0-0.5	07.14.11	0914	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-286-SA6-SS-0.0-0.5MS	07.14.11	1454	SOIL	NONE	2-SS Sleeve			X	X																	
SL-286-SA6-SS-0.0-0.5MS	07.14.11	1454	SOIL	NONE	6-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
DUP03-SA6-QC-071511	07.14.11	1459	SOIL	NONE	1-SS Sleeve			X	X																	
DUP03-SA6-QC-071511	07.14.11	1459	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-056-SA6-SS-0.0-0.5	07.13.11	1522	SOIL	NONE	1-SS Sleeve			X	X																	Collected on 7/13/11
SL-056-SA6-SS-0.0-0.5	07.13.11	1522	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	Collected on 7/13/11
SL-058-SA6-SS-0.0-0.5	07.13.11	1502	SOIL	NONE	1-SS Sleeve			X	X																	Collected on 7/13/11
SL-058-SA6-SS-0.0-0.5	07.13.11	1502	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X							X	X	Collected on 7/13/11

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	07/15/2011 / 1600	LLI 7/18/11 820	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No(s)**	
		8754 3340 5808,5819	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 24, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/19/2011
Group Number: 1256896
SDG: DE202
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-127-SA6-SS-0.0-0.5 Soil	6348152
SL-128-SA6-SS-0.0-0.5 Soil	6348153
SL-133-SA6-SS-0.0-0.5 Soil	6348154
SL-134-SA6-SS-0.0-0.5 Soil	6348155
SL-142-SA6-SS-0.0-0.5 Soil	6348156
SL-143-SA6-SS-0.0-0.5 Soil	6348157
SL-145-SA6-SS-0.0-0.5 Soil	6348158
SL-146-SA6-SS-0.0-0.5 Soil	6348159
SL-147-SA6-SS-0.0-0.5 Soil	6348160
SL-148-SA6-SS-0.0-0.5 Soil	6348161
SL-150-SA6-SS-0.0-0.5 Soil	6348162
SL-152-SA6-SS-0.0-0.5 Soil	6348163
SL-155-SA6-SS-0.0-0.5 Soil	6348164
SL-176-SA6-SS-0.0-0.5 Soil	6348165
SL-182-SA6-SS-0.0-0.5 Soil	6348166
SL-183-SA6-SS-0.0-0.5 Soil	6348167
SL-184-SA6-SS-0.0-0.5 Soil	6348168
SL-293-SA6-SS-0.0-0.5 Soil	6348169

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

COPY TO
1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Chad A. Moline
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: SL-127-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA6-SS-0.0-0.5

LLI Sample # SW 6348152
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:42

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00127 SDG#: DE202-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	500	1
04688	Benzyl alcohol	100-51-6	170	U	170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170	1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	340	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	500	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-127-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA6-SS-0.0-0.5

LLI Sample # SW 6348152
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:42

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00127 SDG#: DE202-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	17	U	17	170	1
04688	Pentachlorophenol	87-86-5	170	U	170	500	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4	5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4	5
10138	Anthracene	120-12-7	2.3	J	1.7	8.4	5
10138	Benzo(a)anthracene	56-55-3	30		3.4	8.4	5
10138	Benzo(a)pyrene	50-32-8	30		3.4	8.4	5
10138	Benzo(b)fluoranthene	205-99-2	47		3.4	8.4	5
10138	Benzo(g,h,i)perylene	191-24-2	13		3.4	8.4	5
10138	Benzo(k)fluoranthene	207-08-9	15		3.4	8.4	5
10138	Chrysene	218-01-9	33		1.7	8.4	5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4	5
10138	Fluoranthene	206-44-0	38		3.4	8.4	5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	11		3.4	8.4	5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4	5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4	5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4	5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4	5
10138	Phenanthrene	85-01-8	6.6	J	3.4	8.4	5
10138	Pyrene	129-00-0	36		3.4	8.4	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0	1
10401	2,4-DB	94-82-6	2.3		0.62	1.7	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7	1
10401	MCPA	94-74-6	76	U	76	250	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-127-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA6-SS-0.0-0.5

LLI Sample # SW 6348152
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:42

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00127 SDG#: DE202-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250	1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17	1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.0	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17	1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34	1
01363	p,p-DDE	72-55-9	0.21	U	0.21	0.34	1
01363	p,p-DDT	50-29-3	1.9		0.067	0.34	1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17	1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.20	U	0.20	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34	1
01363	Endrin	72-20-8	0.067	U	0.067	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.25	U	0.25	0.34	1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34	1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.14	U	0.14	0.34	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.						
	The DCB surrogate is outside the project QC acceptance criteria but within our laboratory statistical limits, therefore, the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	3.6		1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1

Sample Description: SL-127-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA6-SS-0.0-0.5

LLI Sample # SW 6348152
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:42

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00127 SDG#: DE202-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	2.7		0.33	1.7	1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500	1
10501	Isopropanol	67-63-0	100	U	100	500	1
10501	Methanol	67-56-1	100	U	100	500	1

The sample was analyzed in hold with bracketing calibration check standards that were outside the method limits. The blank and sample had reportable recoveries for target compounds. The sample was re-extracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. The re-extract results are reported.

GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10	1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10	1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.0	5
10199	EFH (C15-C20)	n.a.	5.0	J	2.0	6.0	5
10199	EFH (C21-C30)	n.a.	120		2.0	6.0	5
10199	EFH (C30 - C40)	n.a.	290		2.0	6.0	5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.0	5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		5.92	19.6	1
07914	Boron	7440-42-8	5.19		0.353	4.90	1
01650	Calcium	7440-70-2	2,410		2.45	19.6	1
01654	Iron	7439-89-6	19,600		2.56	19.6	1
01656	Lithium	7439-93-2	24.3		0.61	2.0	1
01657	Magnesium	7439-95-4	4,160		0.431	9.79	1
06958	Manganese	7439-96-5	284		0.0353	0.490	1
10145	Phosphorus	7723-14-0	410		0.343	9.79	1
01662	Potassium	7440-09-7	3,560		11.1	49.0	1
01667	Sodium	7440-23-5	72.6	J	5.83	97.9	1
07968	Strontium	7440-24-6	15.6		0.0245	0.490	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-127-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA6-SS-0.0-0.5

LLI Sample # SW 6348152
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:42

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00127 SDG#: DE202-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	3.40	J	0.313	9.79	1
06970	Titanium	7440-32-6	987		0.0695	0.979	1
10146	Zirconium	7440-67-7	3.21	J	0.450	4.90	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.168	J	0.0746	0.202	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	13.4		0.0807	0.403	2
06126	Barium	7440-39-3	146		0.107	0.403	2
06127	Beryllium	7440-41-7	0.799		0.0161	0.101	2
06128	Cadmium	7440-43-9	0.585		0.0444	0.101	2
06131	Chromium	7440-47-3	23.4		0.121	0.403	2
06132	Cobalt	7440-48-4	8.56		0.0202	0.101	2
06133	Copper	7440-50-8	12.0		0.0807	0.403	2
06135	Lead	7439-92-1	17.1		0.0103	0.202	2
06138	Molybdenum	7439-98-7	0.808		0.0504	0.101	2
06139	Nickel	7440-02-0	18.2		0.101	0.403	2
06141	Selenium	7782-49-2	0.105	J	0.0585	0.403	2
06142	Silver	7440-22-4	0.0793	J	0.0143	0.101	2
06145	Thallium	7440-28-0	0.341		0.0303	0.101	2
06148	Vanadium	7440-62-2	44.6		0.0222	0.101	2
06149	Zinc	7440-66-6	95.8		0.565	3.03	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0265	J	0.0068	0.0970	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.88		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.86		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-127-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA6-SS-0.0-0.5

LLI Sample # SW 6348152
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:42

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00127 SDG#: DE202-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11208SLE026	08/10/2011 09:12	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11208SLG026	08/02/2011 11:24	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11208SLG026	07/28/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11208SLE026	07/28/2011 06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090021A	08/02/2011 19:22	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112130022A	08/03/2011 19:51	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100005A	08/19/2011 01:21	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112080012A	07/28/2011 20:05	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100005A	07/29/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112080012A	07/27/2011 19:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090021A	07/28/2011 20:30	Elaine F Stoltzfus	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112130022A	08/02/2011 10:45	Maria Davenport	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112070029A	07/27/2011 11:59	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112010013A	07/21/2011 13:05	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112090029A	07/30/2011 02:52	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112080002A	07/28/2011 07:24	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112080002A	07/27/2011 09:55	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112090029A	07/28/2011 18:15	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112070029A	07/26/2011 22:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112010013A	07/21/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112015708003	07/28/2011 20:54	John P Hook	1
07914	Boron	SW-846 6010B	1	112015708003	07/28/2011 20:54	John P Hook	1
01650	Calcium	SW-846 6010B	1	112015708003	07/28/2011 20:54	John P Hook	1
01654	Iron	SW-846 6010B	1	112015708003	07/28/2011 20:54	John P Hook	1
01656	Lithium	SW-846 6010B	1	112015708003	07/28/2011 20:54	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112015708003	07/28/2011 20:54	John P Hook	1
06958	Manganese	SW-846 6010B	1	112015708003	07/28/2011 20:54	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112015708003	07/28/2011 20:54	John P Hook	1
01662	Potassium	SW-846 6010B	1	112015708003	07/28/2011 20:54	John P Hook	1
01667	Sodium	SW-846 6010B	1	112015708003	07/28/2011 20:54	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-127-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA6-SS-0.0-0.5

LLI Sample # SW 6348152
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:42

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00127 SDG#: DE202-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112015708003	07/28/2011 20:54	John P Hook	1
06969	Tin	SW-846 6010B	1	112015708003	07/28/2011 20:54	John P Hook	1
06970	Titanium	SW-846 6010B	1	112015708003	07/28/2011 20:54	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112015708003	07/28/2011 20:54	John P Hook	1
06124	Antimony	SW-846 6020	1	112011026004A	07/27/2011 15:17	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112011026004A	07/27/2011 15:17	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112011026004D	07/27/2011 15:17	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112011026004A	07/27/2011 15:17	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112011026004A	07/27/2011 15:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112011026004A	07/27/2011 15:17	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112011026004A	07/27/2011 15:17	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112011026004A	07/27/2011 15:17	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112011026004A	07/27/2011 15:17	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112011026004C	07/27/2011 15:17	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112011026004A	07/27/2011 15:17	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112011026004B	07/27/2011 21:55	David K Beck	2
06142	Silver	SW-846 6020	1	112011026004A	07/27/2011 15:17	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112011026004A	07/27/2011 15:17	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112011026004A	07/27/2011 15:17	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112011026004A	07/27/2011 15:17	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112015711003	07/21/2011 08:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112015708003	07/20/2011 21:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112011026004	07/20/2011 21:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112015711003	07/21/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209373203A	07/30/2011 23:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11207495201A	07/28/2011 02:12	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11212243201A	08/02/2011 15:51	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209373203A	07/28/2011 20:05	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11207495201A	07/26/2011 21:30	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039401A	07/26/2011 19:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11212243201A	07/31/2011 05:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402A	07/25/2011 21:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-128-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SS-0.0-0.5

LLI Sample # SW 6348153
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:14

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0-128 SDG#: DE202-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	340	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-128-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SS-0.0-0.5

LLI Sample # SW 6348153
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:14

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0-128 SDG#: DE202-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	17	U	17	170	1
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4	5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4	5
10138	Anthracene	120-12-7	1.7	U	1.7	8.4	5
10138	Benzo(a)anthracene	56-55-3	3.4	U	3.4	8.4	5
10138	Benzo(a)pyrene	50-32-8	3.4	U	3.4	8.4	5
10138	Benzo(b)fluoranthene	205-99-2	3.9	J	3.4	8.4	5
10138	Benzo(g,h,i)perylene	191-24-2	3.4	U	3.4	8.4	5
10138	Benzo(k)fluoranthene	207-08-9	9.7		3.4	8.4	5
10138	Butylbenzylphthalate	85-68-7	40	J	30	91	5
10138	Chrysene	218-01-9	3.9	J	1.7	8.4	5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4	5
10138	Fluoranthene	206-44-0	6.0	J	3.4	8.4	5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.4	5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4	5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4	5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4	5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4	5
10138	Phenanthrene	85-01-8	3.4	U	3.4	8.4	5
10138	Pyrene	129-00-0	5.2	J	3.4	8.4	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	3.1	U	3.1	8.6	5
10401	Dicamba	1918-00-9	0.71	U	0.71	1.2	1
10401	Dinoseb	88-85-7	0.81	J	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.4	U	1.4	1.7	1

Sample Description: SL-128-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SS-0.0-0.5

LLI Sample # SW 6348153
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:14

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0-128 SDG#: DE202-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	MCPA	94-74-6	77	U	77	250	1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250	1
10401	2,4,5-T	93-76-5	0.31	U	0.31	0.31	1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised for dicamba, 2,4-DP, 2,4,5-T, and 2,4-DB due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17	1
01363	Chlordane	57-74-9	0.80	U	0.80	3.4	1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34	1
01363	p,p-DDE	72-55-9	0.22	U	0.22	0.34	1
01363	p,p-DDT	50-29-3	0.57		0.066	0.34	1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17	1
01363	Dieldrin	60-57-1	0.066	U	0.066	0.34	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.066	U	0.066	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34	1
01363	Endrin	72-20-8	0.066	U	0.066	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.34	U	0.34	0.34	1
01363	Endrin Ketone	53494-70-5	0.35	U	0.35	0.35	1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	3.0	J	1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7	1
10225	PCB-1260	11096-82-5	1.4	J	0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-128-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SS-0.0-0.5

LLI Sample # SW 6348153
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:14

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0-128 SDG#: DE202-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	290	J	100	510	1
10501	Isopropanol	67-63-0	100	U	100	510	1
10501	Methanol	67-56-1	340	J	100	510	1
	The sample was analyzed in hold with bracketing calibration check standards that were outside the method limits. The blank and sample had reportable recoveries for target compounds. The sample was re-extracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. The re-extract results are reported.						
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10	1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10	1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2	1
10199	EFH (C15-C20)	n.a.	3.6		0.40	1.2	1
10199	EFH (C21-C30)	n.a.	19		0.40	1.2	1
10199	EFH (C30 - C40)	n.a.	46		0.40	1.2	1
10199	EFH (C8-C11)	n.a.	0.62	J	0.40	1.2	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,300		6.06	20.0	1
07914	Boron	7440-42-8	6.31		0.361	5.01	1
01650	Calcium	7440-70-2	2,740		2.51	20.0	1
01654	Iron	7439-89-6	19,100		2.62	20.0	1
01656	Lithium	7439-93-2	25.0		0.62	2.0	1
01657	Magnesium	7439-95-4	3,980		0.441	10.0	1
06958	Manganese	7439-96-5	281		0.0361	0.501	1
10145	Phosphorus	7723-14-0	404		0.351	10.0	1
01662	Potassium	7440-09-7	3,470		11.3	50.1	1
01667	Sodium	7440-23-5	75.5	J	5.96	100	1
07968	Strontium	7440-24-6	19.9		0.0251	0.501	1
06969	Tin	7440-31-5	3.06	J	0.321	10.0	1
06970	Titanium	7440-32-6	959		0.0712	1.00	1
10146	Zirconium	7440-67-7	2.12	J	0.461	5.01	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-128-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SS-0.0-0.5

LLI Sample # SW 6348153
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:14

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0-128 SDG#: DE202-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0946 J	0.0749	0.202	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	12.3	0.0810	0.405	2
06126	Barium	7440-39-3	144	0.107	0.405	2
06127	Beryllium	7440-41-7	0.813	0.0162	0.101	2
06128	Cadmium	7440-43-9	0.287	0.0445	0.101	2
06131	Chromium	7440-47-3	19.7	0.121	0.405	2
06132	Cobalt	7440-48-4	7.15	0.0202	0.101	2
06133	Copper	7440-50-8	10.8	0.0810	0.405	2
06135	Lead	7439-92-1	9.47	0.0103	0.202	2
06138	Molybdenum	7439-98-7	0.755	0.0506	0.101	2
06139	Nickel	7440-02-0	14.9	0.101	0.405	2
06141	Selenium	7782-49-2	0.111 J	0.0587	0.405	2
06142	Silver	7440-22-4	0.0624 J	0.0144	0.101	2
06145	Thallium	7440-28-0	0.324	0.0304	0.101	2
06148	Vanadium	7440-62-2	39.7	0.0223	0.101	2
06149	Zinc	7440-66-6	79.7	0.567	3.04	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0111 J	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80 U	0.80	1.0	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1 U	9.1	30.4	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20 U	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.82	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: SL-128-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SS-0.0-0.5

LLI Sample # SW 6348153
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:14

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0-128 SDG#: DE202-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11208SLE026	08/10/2011 10:28	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11208SLG026	08/02/2011 13:00	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11208SLG026	07/28/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11208SLE026	07/28/2011 06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090021A	08/02/2011 20:45	Anita M Dale	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090021A	08/04/2011 21:48	Anita M Dale	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100005A	08/19/2011 01:35	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112080012A	07/28/2011 21:01	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100005A	07/29/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112080012A	07/27/2011 19:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090021A	07/28/2011 20:30	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112070029A	07/27/2011 12:14	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112010013A	07/21/2011 13:18	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112090029A	07/29/2011 17:57	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112080002A	07/28/2011 06:12	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112080002A	07/27/2011 09:55	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112090029A	07/28/2011 18:15	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112070029A	07/26/2011 22:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112010013A	07/21/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112015708003	07/28/2011 21:17	John P Hook	1
07914	Boron	SW-846 6010B	1	112015708003	07/28/2011 21:17	John P Hook	1
01650	Calcium	SW-846 6010B	1	112015708003	07/28/2011 21:17	John P Hook	1
01654	Iron	SW-846 6010B	1	112015708003	07/28/2011 21:17	John P Hook	1
01656	Lithium	SW-846 6010B	1	112015708003	07/28/2011 21:17	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112015708003	07/28/2011 21:17	John P Hook	1
06958	Manganese	SW-846 6010B	1	112015708003	07/28/2011 21:17	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112015708003	07/28/2011 21:17	John P Hook	1
01662	Potassium	SW-846 6010B	1	112015708003	07/28/2011 21:17	John P Hook	1
01667	Sodium	SW-846 6010B	1	112015708003	07/28/2011 21:17	John P Hook	1
07968	Strontium	SW-846 6010B	1	112015708003	07/28/2011 21:17	John P Hook	1
06969	Tin	SW-846 6010B	1	112015708003	07/28/2011 21:17	John P Hook	1
06970	Titanium	SW-846 6010B	1	112015708003	07/28/2011 21:17	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112015708003	07/28/2011 21:17	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-128-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SS-0.0-0.5

LLI Sample # SW 6348153
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:14

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0-128 SDG#: DE202-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112011026004A	07/27/2011 15:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112011026004A	07/27/2011 15:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112011026004D	07/27/2011 15:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112011026004A	07/27/2011 15:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112011026004A	07/27/2011 15:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112011026004A	07/27/2011 15:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112011026004A	07/27/2011 15:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112011026004A	07/27/2011 15:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112011026004A	07/27/2011 15:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112011026004C	07/27/2011 15:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112011026004A	07/27/2011 15:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112011026004B	07/27/2011 22:05	David K Beck	2
06142	Silver	SW-846 6020	1	112011026004A	07/27/2011 15:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112011026004A	07/27/2011 15:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112011026004A	07/27/2011 15:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112011026004A	07/27/2011 15:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112015711003	07/21/2011 08:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112015708003	07/20/2011 21:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112011026004	07/20/2011 21:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112015711003	07/21/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209373203A	07/31/2011 00:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11207495201A	07/28/2011 03:21	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11212243201A	08/02/2011 16:05	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209373203A	07/28/2011 20:05	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11207495201A	07/26/2011 21:30	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039401A	07/26/2011 19:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11212243201A	07/31/2011 05:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402A	07/25/2011 21:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA6-SS-0.0-0.5

LLI Sample # SW 6348154
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 07:55

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00133 SDG#: DE202-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170	1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	340	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-133-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA6-SS-0.0-0.5

LLI Sample # SW 6348154
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 07:55

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00133 SDG#: DE202-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	17	U	17	170	1
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.5	5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.5	5
10138	Anthracene	120-12-7	1.7	U	1.7	8.5	5
10138	Benzo(a)anthracene	56-55-3	9.3		3.4	8.5	5
10138	Benzo(a)pyrene	50-32-8	9.1		3.4	8.5	5
10138	Benzo(b)fluoranthene	205-99-2	12		3.4	8.5	5
10138	Benzo(g,h,i)perylene	191-24-2	4.2	J	3.4	8.5	5
10138	Benzo(k)fluoranthene	207-08-9	7.2	J	3.4	8.5	5
10138	Chrysene	218-01-9	11		1.7	8.5	5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.5	5
10138	Fluoranthene	206-44-0	15		3.4	8.5	5
10138	Fluorene	86-73-7	3.4	U	3.4	8.5	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.5	5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.5	5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.5	5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.5	5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.5	5
10138	Phenanthrene	85-01-8	3.4	U	3.4	8.5	5
10138	Pyrene	129-00-0	13		3.4	8.5	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1	1
10401	2,4-DB	94-82-6	1.5	U	1.5	1.7	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	77	U	77	250	1

Sample Description: SL-133-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA6-SS-0.0-0.5

LLI Sample # SW 6348154
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 07:55

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00133 SDG#: DE202-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250	1
10401	2,4,5-T	93-76-5	0.46		0.083	0.17	1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17	1

Reporting limits were raised for 2,4-DB due to interference from the sample matrix.
The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	0.81	U	0.81	3.5	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35	1
01363	p,p-DDE	72-55-9	0.14	U	0.14	0.35	1
01363	p,p-DDT	50-29-3	1.1		0.067	0.35	1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17	1
01363	Dieldrin	60-57-1	0.27	U	0.27	0.35	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.24	U	0.24	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35	1
01363	Endrin	72-20-8	0.067	U	0.067	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.14	U	0.14	0.35	1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35	1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.071	U	0.071	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.11	U	0.11	0.35	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	3.1	J	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	4.6		0.34	1.7	1
10225	PCB-1260	11096-82-5	2.1		0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-133-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA6-SS-0.0-0.5

LLI Sample # SW 6348154
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 07:55

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00133 SDG#: DE202-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510	1
10501	Isopropanol	67-63-0	100	U	100	510	1
10501	Methanol	67-56-1	100	U	100	510	1
	The sample was analyzed in hold with bracketing calibration check standards that were outside the method limits. The blank and sample had reportable recoveries for target compounds. The sample was re-extracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. The re-extract results are reported.						
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10	1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10	1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.1	5
10199	EFH (C15-C20)	n.a.	3.3	J	2.0	6.1	5
10199	EFH (C21-C30)	n.a.	35		2.0	6.1	5
10199	EFH (C30 - C40)	n.a.	160		2.0	6.1	5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.1	5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		5.91	19.5	1
07914	Boron	7440-42-8	6.42		0.352	4.89	1
01650	Calcium	7440-70-2	2,520		2.44	19.5	1
01654	Iron	7439-89-6	18,700		2.55	19.5	1
01656	Lithium	7439-93-2	23.1		0.61	2.0	1
01657	Magnesium	7439-95-4	4,140		0.430	9.77	1
06958	Manganese	7439-96-5	291		0.0352	0.489	1
10145	Phosphorus	7723-14-0	409		0.342	9.77	1
01662	Potassium	7440-09-7	3,650		11.0	48.9	1
01667	Sodium	7440-23-5	64.7	J	5.81	97.7	1
07968	Strontium	7440-24-6	17.5		0.0244	0.489	1
06969	Tin	7440-31-5	2.89	J	0.313	9.77	1
06970	Titanium	7440-32-6	977		0.0694	0.977	1
10146	Zirconium	7440-67-7	3.25	J	0.449	4.89	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0925	J	0.0737	0.199	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-133-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA6-SS-0.0-0.5

LLI Sample # SW 6348154
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 07:55

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00133 SDG#: DE202-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	12.2		0.0797	0.399	2
06126	Barium	7440-39-3	137		0.106	0.399	2
06127	Beryllium	7440-41-7	0.761		0.0159	0.0996	2
06128	Cadmium	7440-43-9	0.602		0.0438	0.0996	2
06131	Chromium	7440-47-3	19.7		0.120	0.399	2
06132	Cobalt	7440-48-4	7.30		0.0199	0.0996	2
06133	Copper	7440-50-8	12.0		0.0797	0.399	2
06135	Lead	7439-92-1	17.6		0.0102	0.199	2
06138	Molybdenum	7439-98-7	0.654		0.0498	0.0996	2
06139	Nickel	7440-02-0	15.6		0.0996	0.399	2
06141	Selenium	7782-49-2	0.110	J	0.0578	0.399	2
06142	Silver	7440-22-4	0.0548	J	0.0141	0.0996	2
06145	Thallium	7440-28-0	0.305		0.0299	0.0996	2
06148	Vanadium	7440-62-2	39.8		0.0219	0.0996	2
06149	Zinc	7440-66-6	87.1		0.558	2.99	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0090	J	0.0067	0.0946	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.68		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.6		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-133-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA6-SS-0.0-0.5

LLI Sample # SW 6348154
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 07:55

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00133 SDG#: DE202-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11208SLE026	08/10/2011 10:53	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11208SLG026	08/02/2011 13:32	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11208SLG026	07/28/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11208SLE026	07/28/2011 06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090021A	08/02/2011 21:12	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100005A	08/19/2011 02:32	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112080012A	07/28/2011 21:19	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100005A	07/29/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112080012A	07/27/2011 19:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090021A	07/28/2011 20:30	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112070029A	07/27/2011 12:29	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112010013A	07/21/2011 13:31	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112090029A	07/29/2011 20:56	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112080002A	07/28/2011 08:36	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112080002A	07/27/2011 09:55	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112090029A	07/28/2011 18:15	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112070029A	07/26/2011 22:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112010013A	07/21/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112015708003	07/28/2011 21:28	John P Hook	1
07914	Boron	SW-846 6010B	1	112015708003	07/28/2011 21:28	John P Hook	1
01650	Calcium	SW-846 6010B	1	112015708003	07/28/2011 21:28	John P Hook	1
01654	Iron	SW-846 6010B	1	112015708003	07/28/2011 21:28	John P Hook	1
01656	Lithium	SW-846 6010B	1	112015708003	07/28/2011 21:28	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112015708003	07/28/2011 21:28	John P Hook	1
06958	Manganese	SW-846 6010B	1	112015708003	07/28/2011 21:28	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112015708003	07/28/2011 21:28	John P Hook	1
01662	Potassium	SW-846 6010B	1	112015708003	07/28/2011 21:28	John P Hook	1
01667	Sodium	SW-846 6010B	1	112015708003	07/28/2011 21:28	John P Hook	1
07968	Strontium	SW-846 6010B	1	112015708003	07/28/2011 21:28	John P Hook	1
06969	Tin	SW-846 6010B	1	112015708003	07/28/2011 21:28	John P Hook	1
06970	Titanium	SW-846 6010B	1	112015708003	07/28/2011 21:28	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112015708003	07/28/2011 21:28	John P Hook	1
06124	Antimony	SW-846 6020	1	112011026004A	07/27/2011 15:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112011026004A	07/27/2011 15:38	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112011026004D	07/27/2011 15:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112011026004A	07/27/2011 15:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112011026004A	07/27/2011 15:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112011026004A	07/27/2011 15:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112011026004A	07/27/2011 15:38	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-133-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA6-SS-0.0-0.5

LLI Sample # SW 6348154
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 07:55

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00133 SDG#: DE202-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	112011026004A	07/27/2011 15:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112011026004A	07/27/2011 15:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112011026004C	07/27/2011 15:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112011026004A	07/27/2011 15:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112011026004B	07/27/2011 22:07	David K Beck	2
06142	Silver	SW-846 6020	1	112011026004A	07/27/2011 15:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112011026004A	07/27/2011 15:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112011026004A	07/27/2011 15:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112011026004A	07/27/2011 15:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112015711003	07/21/2011 08:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112015708003	07/20/2011 21:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112011026004	07/20/2011 21:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112015711003	07/21/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209373203A	07/31/2011 00:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11207495201A	07/28/2011 04:07	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11212243201A	08/02/2011 16:27	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209373203A	07/28/2011 20:05	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11207495201A	07/26/2011 21:30	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039401A	07/26/2011 19:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11212243201A	07/31/2011 05:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402A	07/25/2011 21:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-134-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA6-SS-0.0-0.5

LLI Sample # SW 6348155
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 08:29

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00134 SDG#: DE202-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(a)anthracene	56-55-3	29	J	17	170	1
04688	Benzo(a)pyrene	50-32-8	54	J	17	170	1
04688	Benzo(b)fluoranthene	205-99-2	63	J	17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	49	J	17	170	1
04688	Benzo(k)fluoranthene	207-08-9	26	J	17	170	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170	1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	39	J	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-134-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA6-SS-0.0-0.5

LLI Sample # SW 6348155
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 08:29

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00134 SDG#: DE202-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	17	U	17	170	1
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenanthrene	85-01-8	39	J	17	170	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Pyrene	129-00-0	61	J	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4	5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4	5
10138	Anthracene	120-12-7	3.0	J	1.7	8.4	5
10138	Chrysene	218-01-9	41		1.7	8.4	5
10138	Dibenz(a,h)anthracene	53-70-3	4.9	J	3.4	8.4	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	400		30	91	5
10138	Fluoranthene	206-44-0	60		3.4	8.4	5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4	5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4	5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4	5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4	5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0	1
10401	2,4-DB	94-82-6	1.4	U	1.4	1.7	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7	1
10401	MCPA	94-74-6	76	U	76	250	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-134-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA6-SS-0.0-0.5

LLI Sample # SW 6348155
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 08:29

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00134 SDG#: DE202-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250	1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.17	1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised for 2,4,5-T and 2,4-DB due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17	1
01363	Chlordane	57-74-9	3.6		0.81	3.4	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34	1
01363	p,p-DDE	72-55-9	0.41	U	0.41	0.41	1
01363	p,p-DDT	50-29-3	3.7		0.33	1.7	5
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17	1
01363	Dieldrin	60-57-1	1.1	U	1.1	1.1	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.39	U	0.39	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.42	U	0.42	0.42	1
01363	Endrin	72-20-8	0.067	U	0.067	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.42	U	0.42	0.42	1
01363	Endrin Ketone	53494-70-5	0.68	U	0.68	0.68	1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.14	U	0.14	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.081	U	0.081	0.34	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	16		1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	43		0.33	1.7	1
10225	PCB-1260	11096-82-5	19		0.39	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-134-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA6-SS-0.0-0.5

LLI Sample # SW 6348155
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 08:29

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00134 SDG#: DE202-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510	1
10501	Isopropanol	67-63-0	100	J	100	510	1
10501	Methanol	67-56-1	100	U	100	510	1

The sample was analyzed in hold with bracketing calibration check standards that were outside the method limits. The blank and sample had reportable recoveries for target compounds. The sample was re-extracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. The re-extract results are reported.

GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10	1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10	1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.1	5
10199	EFH (C15-C20)	n.a.	3.1	J	2.0	6.1	5
10199	EFH (C21-C30)	n.a.	36		2.0	6.1	5
10199	EFH (C30 - C40)	n.a.	180		2.0	6.1	5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.1	5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,300		5.99	19.8	1
07914	Boron	7440-42-8	5.63		0.357	4.95	1
01650	Calcium	7440-70-2	2,640		2.48	19.8	1
01654	Iron	7439-89-6	22,200		2.58	19.8	1
01656	Lithium	7439-93-2	24.0		0.61	2.0	1
01657	Magnesium	7439-95-4	4,370		0.436	9.90	1
06958	Manganese	7439-96-5	299		0.0357	0.495	1
10145	Phosphorus	7723-14-0	347		0.347	9.90	1
01662	Potassium	7440-09-7	2,980		11.2	49.5	1
01667	Sodium	7440-23-5	78.2	J	5.89	99.0	1
07968	Strontium	7440-24-6	16.0		0.0248	0.495	1
06969	Tin	7440-31-5	4.37	J	0.317	9.90	1
06970	Titanium	7440-32-6	1,030		0.0703	0.990	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-134-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA6-SS-0.0-0.5

LLI Sample # SW 6348155
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 08:29

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00134 SDG#: DE202-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	2.81	J	0.456	4.95	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.214		0.0733	0.198	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	12.2		0.0792	0.396	2
06126	Barium	7440-39-3	118		0.105	0.396	2
06127	Beryllium	7440-41-7	0.704		0.0158	0.0990	2
06128	Cadmium	7440-43-9	0.544		0.0436	0.0990	2
06131	Chromium	7440-47-3	20.3		0.119	0.396	2
06132	Cobalt	7440-48-4	7.31		0.0198	0.0990	2
06133	Copper	7440-50-8	14.1		0.0792	0.396	2
06135	Lead	7439-92-1	17.7		0.0101	0.198	2
06138	Molybdenum	7439-98-7	0.793		0.0495	0.0990	2
06139	Nickel	7440-02-0	15.7		0.0990	0.396	2
06141	Selenium	7782-49-2	0.131	J	0.0574	0.396	2
06142	Silver	7440-22-4	0.0670	J	0.0141	0.0990	2
06145	Thallium	7440-28-0	0.301		0.0297	0.0990	2
06148	Vanadium	7440-62-2	40.9		0.0218	0.0990	2
06149	Zinc	7440-66-6	87.4		0.555	2.97	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0376	J	0.0068	0.0971	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38	J	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.26		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.0		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-134-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA6-SS-0.0-0.5

LLI Sample # SW 6348155
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 08:29

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00134 SDG#: DE202-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11208SLE026	08/10/2011 11:18	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11208SLG026	08/02/2011 14:04	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11208SLG026	07/28/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11208SLE026	07/28/2011 06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090021A	08/02/2011 21:40	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100005A	08/19/2011 02:46	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100005A	08/23/2011 02:25	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112080012A	07/28/2011 21:38	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100005A	07/29/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112080012A	07/27/2011 19:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090021A	07/28/2011 20:30	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112070029A	07/27/2011 12:44	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112010013A	07/21/2011 13:44	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112090029A	07/30/2011 00:39	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112080002A	07/28/2011 09:00	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112080002A	07/27/2011 09:55	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112090029A	07/28/2011 18:15	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112070029A	07/26/2011 22:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112010013A	07/21/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112015708003	07/28/2011 21:32	John P Hook	1
07914	Boron	SW-846 6010B	1	112015708003	07/28/2011 21:32	John P Hook	1
01650	Calcium	SW-846 6010B	1	112015708003	07/28/2011 21:32	John P Hook	1
01654	Iron	SW-846 6010B	1	112015708003	07/28/2011 21:32	John P Hook	1
01656	Lithium	SW-846 6010B	1	112015708003	07/28/2011 21:32	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112015708003	07/28/2011 21:32	John P Hook	1
06958	Manganese	SW-846 6010B	1	112015708003	07/28/2011 21:32	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112015708003	07/28/2011 21:32	John P Hook	1
01662	Potassium	SW-846 6010B	1	112015708003	07/28/2011 21:32	John P Hook	1
01667	Sodium	SW-846 6010B	1	112015708003	07/28/2011 21:32	John P Hook	1
07968	Strontium	SW-846 6010B	1	112015708003	07/28/2011 21:32	John P Hook	1
06969	Tin	SW-846 6010B	1	112015708003	07/28/2011 21:32	John P Hook	1
06970	Titanium	SW-846 6010B	1	112015708003	07/28/2011 21:32	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112015708003	07/28/2011 21:32	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-134-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA6-SS-0.0-0.5

LLI Sample # SW 6348155
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 08:29

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00134 SDG#: DE202-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112011026004A	07/27/2011 15:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112011026004A	07/27/2011 15:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112011026004D	07/27/2011 15:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112011026004A	07/27/2011 15:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112011026004A	07/27/2011 15:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112011026004A	07/27/2011 15:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112011026004A	07/27/2011 15:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112011026004A	07/27/2011 15:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112011026004A	07/27/2011 15:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112011026004C	07/27/2011 15:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112011026004A	07/27/2011 15:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112011026004B	07/27/2011 22:11	David K Beck	2
06142	Silver	SW-846 6020	1	112011026004A	07/27/2011 15:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112011026004A	07/27/2011 15:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112011026004A	07/27/2011 15:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112011026004A	07/27/2011 15:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112015711003	07/21/2011 09:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112015708003	07/20/2011 21:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112011026004	07/20/2011 21:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112015711003	07/21/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209373203A	07/31/2011 01:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11207495201A	07/28/2011 04:30	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11212243201A	08/02/2011 16:41	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209373203A	07/28/2011 20:05	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11207495201A	07/26/2011 21:30	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039401A	07/26/2011 19:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11212243201A	07/31/2011 05:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402A	07/25/2011 21:01	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-142-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA6-SS-0.0-0.5

LLI Sample # SW 6348156
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:43

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00142 SDG#: DE202-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170	1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	66	J	17	340	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-142-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA6-SS-0.0-0.5

LLI Sample # SW 6348156
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:43

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00142 SDG#: DE202-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	17	U	17	170	1
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.5	5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.5	5
10138	Anthracene	120-12-7	1.7	U	1.7	8.5	5
10138	Benzo(a)anthracene	56-55-3	360		3.4	8.5	5
10138	Benzo(a)pyrene	50-32-8	770		3.4	8.5	5
10138	Benzo(b)fluoranthene	205-99-2	1,500		3.4	8.5	5
10138	Benzo(g,h,i)perylene	191-24-2	320		3.4	8.5	5
10138	Benzo(k)fluoranthene	207-08-9	630		3.4	8.5	5
10138	Chrysene	218-01-9	460		1.7	8.5	5
10138	Dibenz(a,h)anthracene	53-70-3	100		3.4	8.5	5
10138	Fluoranthene	206-44-0	69		3.4	8.5	5
10138	Fluorene	86-73-7	3.4	U	3.4	8.5	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	360		3.4	8.5	5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.5	5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.5	5
10138	Naphthalene	91-20-3	3.6	J	3.4	8.5	5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.5	5
10138	Phenanthrene	85-01-8	3.4	U	3.4	8.5	5
10138	Pyrene	129-00-0	75		3.4	8.5	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	4.1		0.63	1.7	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	77	U	77	250	1

Sample Description: SL-142-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA6-SS-0.0-0.5

LLI Sample # SW 6348156
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:43

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00142 SDG#: DE202-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250	1
10401	2,4,5-T	93-76-5	0.50		0.083	0.17	1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.051	U	0.051	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.13	J	0.034	0.17	1
01363	Chlordane	57-74-9	3.1	J	0.81	3.4	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34	1
01363	p,p-DDE	72-55-9	0.26	U	0.26	0.34	1
01363	p,p-DDT	50-29-3	1.4		0.067	0.34	1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17	1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.53	U	0.53	0.53	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34	1
01363	Endrin	72-20-8	0.067	U	0.067	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34	1
01363	Endrin Ketone	53494-70-5	0.40	U	0.40	0.40	1
01363	Heptachlor	76-44-8	0.091	U	0.091	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.16	U	0.16	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.36	U	0.36	0.36	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	13		1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	6.4		0.34	1.7	1
10225	PCB-1260	11096-82-5	3.9		0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-142-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA6-SS-0.0-0.5

LLI Sample # SW 6348156
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:43

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00142 SDG#: DE202-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	160	J	100	510	1
10501	Isopropanol	67-63-0	230	J	100	510	1
10501	Methanol	67-56-1	100	U	100	510	1
	The sample was analyzed in hold with bracketing calibration check standards that were outside the method limits. The blank and sample had reportable recoveries for target compounds. The sample was re-extracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. The re-extract results are reported.						
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10	1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10	1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.1	U	4.1	12	10
10199	EFH (C15-C20)	n.a.	4.5	J	4.1	12	10
10199	EFH (C21-C30)	n.a.	82		4.1	12	10
10199	EFH (C30 - C40)	n.a.	320		4.1	12	10
10199	EFH (C8-C11)	n.a.	4.1	U	4.1	12	10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,700		6.09	20.1	1
07914	Boron	7440-42-8	6.76		0.362	5.03	1
01650	Calcium	7440-70-2	3,630		2.52	20.1	1
01654	Iron	7439-89-6	18,000		2.63	20.1	1
01656	Lithium	7439-93-2	18.9		0.62	2.0	1
01657	Magnesium	7439-95-4	3,510		0.443	10.1	1
06958	Manganese	7439-96-5	261		0.0362	0.503	1
10145	Phosphorus	7723-14-0	441		0.352	10.1	1
01662	Potassium	7440-09-7	3,180		11.4	50.3	1
01667	Sodium	7440-23-5	56.9	J	5.99	101	1
07968	Strontium	7440-24-6	21.4		0.0252	0.503	1
06969	Tin	7440-31-5	2.99	J	0.322	10.1	1
06970	Titanium	7440-32-6	817		0.0714	1.01	1
10146	Zirconium	7440-67-7	1.74	J	0.463	5.03	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.191	J	0.0745	0.201	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-142-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA6-SS-0.0-0.5

LLI Sample # SW 6348156
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:43

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00142 SDG#: DE202-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.2		0.0805	0.402	2
06126	Barium	7440-39-3	149		0.107	0.402	2
06127	Beryllium	7440-41-7	0.680		0.0161	0.101	2
06128	Cadmium	7440-43-9	2.05		0.0443	0.101	2
06131	Chromium	7440-47-3	18.1		0.121	0.402	2
06132	Cobalt	7440-48-4	7.35		0.0201	0.101	2
06133	Copper	7440-50-8	12.9		0.0805	0.402	2
06135	Lead	7439-92-1	19.3		0.0103	0.201	2
06138	Molybdenum	7439-98-7	0.990		0.0503	0.101	2
06139	Nickel	7440-02-0	14.6		0.101	0.402	2
06141	Selenium	7782-49-2	0.111	J	0.0584	0.402	2
06142	Silver	7440-22-4	0.0687	J	0.0143	0.101	2
06145	Thallium	7440-28-0	0.282		0.0302	0.101	2
06148	Vanadium	7440-62-2	35.9		0.0221	0.101	2
06149	Zinc	7440-66-6	109		0.563	3.02	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.971		0.0336	0.477	5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.36		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.6		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-142-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA6-SS-0.0-0.5

LLI Sample # SW 6348156
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:43

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00142 SDG#: DE202-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11208SLE026	08/10/2011 11:43	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11208SLG026	08/02/2011 14:36	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11208SLG026	07/28/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11208SLE026	07/28/2011 06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090021A	08/02/2011 22:08	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100005A	08/19/2011 03:00	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112080012A	07/28/2011 21:56	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100005A	07/29/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112080012A	07/27/2011 19:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090021A	07/28/2011 20:30	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112070029A	07/27/2011 12:59	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112010013A	07/21/2011 14:35	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112090029A	07/29/2011 23:54	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112080002A	07/28/2011 09:49	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112080002A	07/27/2011 09:55	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112090029A	07/28/2011 18:15	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112070029A	07/26/2011 22:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112010013A	07/21/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112015708003	07/28/2011 21:36	John P Hook	1
07914	Boron	SW-846 6010B	1	112015708003	07/28/2011 21:36	John P Hook	1
01650	Calcium	SW-846 6010B	1	112015708003	07/28/2011 21:36	John P Hook	1
01654	Iron	SW-846 6010B	1	112015708003	07/28/2011 21:36	John P Hook	1
01656	Lithium	SW-846 6010B	1	112015708003	07/28/2011 21:36	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112015708003	07/28/2011 21:36	John P Hook	1
06958	Manganese	SW-846 6010B	1	112015708003	07/28/2011 21:36	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112015708003	07/28/2011 21:36	John P Hook	1
01662	Potassium	SW-846 6010B	1	112015708003	07/28/2011 21:36	John P Hook	1
01667	Sodium	SW-846 6010B	1	112015708003	07/28/2011 21:36	John P Hook	1
07968	Strontium	SW-846 6010B	1	112015708003	07/28/2011 21:36	John P Hook	1
06969	Tin	SW-846 6010B	1	112015708003	07/28/2011 21:36	John P Hook	1
06970	Titanium	SW-846 6010B	1	112015708003	07/28/2011 21:36	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112015708003	07/28/2011 21:36	John P Hook	1
06124	Antimony	SW-846 6020	1	112011026004A	07/27/2011 15:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112011026004A	07/27/2011 15:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112011026004D	07/27/2011 15:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112011026004A	07/27/2011 15:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112011026004A	07/27/2011 15:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112011026004A	07/27/2011 15:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112011026004A	07/27/2011 15:51	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-142-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA6-SS-0.0-0.5

LLI Sample # SW 6348156
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:43

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00142 SDG#: DE202-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	112011026004A	07/27/2011 15:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112011026004A	07/27/2011 15:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112011026004C	07/27/2011 15:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112011026004A	07/27/2011 15:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112011026004B	07/27/2011 22:13	David K Beck	2
06142	Silver	SW-846 6020	1	112011026004A	07/27/2011 15:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112011026004A	07/27/2011 15:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112011026004A	07/27/2011 15:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112011026004A	07/27/2011 15:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112015711003	07/21/2011 10:07	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	112015708003	07/20/2011 21:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112011026004	07/20/2011 21:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112015711003	07/21/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209373203A	07/31/2011 01:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11207495201A	07/28/2011 04:53	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11212243201A	08/02/2011 18:01	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209373203A	07/28/2011 20:05	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11207495201A	07/26/2011 21:30	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039401A	07/26/2011 19:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11212243201A	07/31/2011 05:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402A	07/25/2011 21:01	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-143-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA6-SS-0.0-0.5

LLI Sample # SW 6348157
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 11:10

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00143 SDG#: DE202-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170	1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	340	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-143-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA6-SS-0.0-0.5

LLI Sample # SW 6348157
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 11:10

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00143 SDG#: DE202-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	17	U	17	170	1
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.5	5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.5	5
10138	Anthracene	120-12-7	4.8	J	1.7	8.5	5
10138	Benzo(a)anthracene	56-55-3	34		3.4	8.5	5
10138	Benzo(a)pyrene	50-32-8	34		3.4	8.5	5
10138	Benzo(b)fluoranthene	205-99-2	52		3.4	8.5	5
10138	Benzo(g,h,i)perylene	191-24-2	12		3.4	8.5	5
10138	Benzo(k)fluoranthene	207-08-9	22		3.4	8.5	5
10138	Chrysene	218-01-9	40		1.7	8.5	5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	J	3.4	8.5	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	130		30	91	5
10138	Fluoranthene	206-44-0	57		3.4	8.5	5
10138	Fluorene	86-73-7	3.4	U	3.4	8.5	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	10		3.4	8.5	5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.5	5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.5	5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.5	5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.5	5
10138	Phenanthrene	85-01-8	16		3.4	8.5	5
10138	Pyrene	129-00-0	52		3.4	8.5	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	1.7		0.62	1.7	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	2.3	U	2.3	2.3	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-143-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA6-SS-0.0-0.5

LLI Sample # SW 6348157
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 11:10

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00143 SDG#: DE202-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	MCPA	94-74-6	77	U	77	250	1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.17	1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised for 2,4-DP and 2,4,5-T due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17	1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34	1
01363	p,p-DDE	72-55-9	0.11	U	0.11	0.34	1
01363	p,p-DDT	50-29-3	0.68		0.067	0.34	1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17	1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.14	U	0.14	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34	1
01363	Endrin	72-20-8	0.067	U	0.067	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34	1
01363	Endrin Ketone	53494-70-5	0.34	U	0.34	0.34	1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	11		1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	8.3		0.33	1.7	1
10225	PCB-1260	11096-82-5	2.8		0.40	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-143-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA6-SS-0.0-0.5

LLI Sample # SW 6348157
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 11:10

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00143 SDG#: DE202-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	290	J	100	510	1
10501	Isopropanol	67-63-0	100	U	100	510	1
10501	Methanol	67-56-1	540		100	510	1
The sample was analyzed in hold with bracketing calibration check standards that were outside the method limits. The blank and sample had reportable recoveries for target compounds. The sample was re-extracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. The re-extract results are reported.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10	1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10	1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.81	U	0.81	2.4	2
10199	EFH (C15-C20)	n.a.	4.1		0.81	2.4	2
10199	EFH (C21-C30)	n.a.	37		0.81	2.4	2
10199	EFH (C30 - C40)	n.a.	110		0.81	2.4	2
10199	EFH (C8-C11)	n.a.	0.81	U	0.81	2.4	2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		5.90	19.5	1
07914	Boron	7440-42-8	5.23		0.351	4.88	1
01650	Calcium	7440-70-2	2,450		2.44	19.5	1
01654	Iron	7439-89-6	18,900		2.55	19.5	1
01656	Lithium	7439-93-2	23.4		0.60	2.0	1
01657	Magnesium	7439-95-4	4,090		0.429	9.75	1
06958	Manganese	7439-96-5	281		0.0351	0.488	1
10145	Phosphorus	7723-14-0	382		0.341	9.75	1
01662	Potassium	7440-09-7	3,120		11.0	48.8	1
01667	Sodium	7440-23-5	67.9	J	5.80	97.5	1
07968	Strontium	7440-24-6	16.0		0.0244	0.488	1
06969	Tin	7440-31-5	2.83	J	0.312	9.75	1
06970	Titanium	7440-32-6	987		0.0692	0.975	1
10146	Zirconium	7440-67-7	2.77	J	0.449	4.88	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	2.33		0.0736	0.199	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-143-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA6-SS-0.0-0.5

LLI Sample # SW 6348157
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 11:10

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00143 SDG#: DE202-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	15.2		0.0795	0.398	2
06126	Barium	7440-39-3	142		0.105	0.398	2
06127	Beryllium	7440-41-7	0.848		0.0159	0.0994	2
06128	Cadmium	7440-43-9	0.441		0.0437	0.0994	2
06131	Chromium	7440-47-3	22.6		0.119	0.398	2
06132	Cobalt	7440-48-4	8.47		0.0199	0.0994	2
06133	Copper	7440-50-8	12.9		0.0795	0.398	2
06135	Lead	7439-92-1	29.5		0.0101	0.199	2
06138	Molybdenum	7439-98-7	0.830		0.0497	0.0994	2
06139	Nickel	7440-02-0	17.2		0.0994	0.398	2
06141	Selenium	7782-49-2	0.139	J	0.0577	0.398	2
06142	Silver	7440-22-4	0.249		0.0141	0.0994	2
06145	Thallium	7440-28-0	0.400		0.0298	0.0994	2
06148	Vanadium	7440-62-2	45.1		0.0219	0.0994	2
06149	Zinc	7440-66-6	91.0		0.557	2.98	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0181	J	0.0068	0.0972	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.94		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.4		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-143-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA6-SS-0.0-0.5

LLI Sample # SW 6348157
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 11:10

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00143 SDG#: DE202-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11208SLE026	08/10/2011 12:08	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11208SLG026	08/02/2011 15:08	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11208SLG026	07/28/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11208SLE026	07/28/2011 06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090021A	08/02/2011 22:35	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100005A	08/19/2011 03:15	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112080012A	07/28/2011 22:15	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100005A	07/29/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112080012A	07/27/2011 19:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090021A	07/28/2011 20:30	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112070029A	07/27/2011 13:14	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112010013A	07/21/2011 14:48	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112090029A	07/29/2011 21:40	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112080002A	07/28/2011 07:00	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112080002A	07/27/2011 09:55	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112090029A	07/28/2011 18:15	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112070029A	07/26/2011 22:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112010013A	07/21/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112015708003	07/28/2011 21:39	John P Hook	1
07914	Boron	SW-846 6010B	1	112015708003	07/28/2011 21:39	John P Hook	1
01650	Calcium	SW-846 6010B	1	112015708003	07/28/2011 21:39	John P Hook	1
01654	Iron	SW-846 6010B	1	112015708003	07/28/2011 21:39	John P Hook	1
01656	Lithium	SW-846 6010B	1	112015708003	07/28/2011 21:39	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112015708003	07/28/2011 21:39	John P Hook	1
06958	Manganese	SW-846 6010B	1	112015708003	07/28/2011 21:39	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112015708003	07/28/2011 21:39	John P Hook	1
01662	Potassium	SW-846 6010B	1	112015708003	07/28/2011 21:39	John P Hook	1
01667	Sodium	SW-846 6010B	1	112015708003	07/28/2011 21:39	John P Hook	1
07968	Strontium	SW-846 6010B	1	112015708003	07/28/2011 21:39	John P Hook	1
06969	Tin	SW-846 6010B	1	112015708003	07/28/2011 21:39	John P Hook	1
06970	Titanium	SW-846 6010B	1	112015708003	07/28/2011 21:39	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112015708003	07/28/2011 21:39	John P Hook	1
06124	Antimony	SW-846 6020	1	112011026004A	07/27/2011 15:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112011026004A	07/27/2011 15:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112011026004D	07/27/2011 15:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112011026004A	07/27/2011 15:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112011026004A	07/27/2011 15:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112011026004A	07/27/2011 15:54	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-143-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA6-SS-0.0-0.5

LLI Sample # SW 6348157
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 11:10

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00143 SDG#: DE202-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	112011026004A	07/27/2011 15:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112011026004A	07/27/2011 15:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112011026004A	07/27/2011 15:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112011026004C	07/27/2011 15:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112011026004A	07/27/2011 15:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112011026004B	07/27/2011 22:15	David K Beck	2
06142	Silver	SW-846 6020	1	112011026004A	07/27/2011 15:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112011026004A	07/27/2011 15:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112011026004A	07/27/2011 15:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112011026004A	07/27/2011 15:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112015711003	07/21/2011 09:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112015708003	07/20/2011 21:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112011026004	07/20/2011 21:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112015711003	07/21/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209373203A	07/31/2011 02:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11207495201A	07/28/2011 05:16	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11212243201A	08/02/2011 18:15	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209373203A	07/28/2011 20:05	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11207495201A	07/26/2011 21:30	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039401A	07/26/2011 19:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11212243201A	07/31/2011 05:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402A	07/25/2011 21:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-145-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA6-SS-0.0-0.5

LLI Sample # SW 6348158
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:33

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00145 SDG#: DE202-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(a)anthracene	56-55-3	32	J	17	170	1
04688	Benzo(a)pyrene	50-32-8	30	J	17	170	1
04688	Benzo(b)fluoranthene	205-99-2	33	J	17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	17	J	17	170	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170	1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Chrysene	218-01-9	27	J	17	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	26	J	17	340	1
04688	Fluoranthene	206-44-0	55	J	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-145-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA6-SS-0.0-0.5

LLI Sample # SW 6348158
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:33

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00145 SDG#: DE202-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	17	U	17	170	1
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenanthrene	85-01-8	37	J	17	170	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Pyrene	129-00-0	61	J	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4	5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4	5
10138	Anthracene	120-12-7	1.7	U	1.7	8.4	5
10138	Benzo(k)fluoranthene	207-08-9	3.4	U	3.4	8.4	5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4	5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.4	5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4	5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4	5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4	5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	0.63	U	0.63	1.7	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	77	U	77	250	1

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SSFL Area IV Collocated Soil Sampling
SL-145-SA6-SS-0.0-0.5

LLI Sample # SW 6348158
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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:33

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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00145 SDG#: DE202-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250	1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17	1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17	1
01363	Chlordane	57-74-9	2.3	J	0.80	3.4	1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34	1
01363	p,p-DDE	72-55-9	0.15	U	0.15	0.34	1
01363	p,p-DDT	50-29-3	1.1		0.066	0.34	1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17	1
01363	Dieldrin	60-57-1	0.27	U	0.27	0.34	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.066	U	0.066	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34	1
01363	Endrin	72-20-8	0.066	U	0.066	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.15	U	0.15	0.34	1
01363	Endrin Ketone	53494-70-5	0.26	U	0.26	0.34	1
01363	Heptachlor	76-44-8	0.091	U	0.091	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	5.6		1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	6.6		0.33	1.7	1
10225	PCB-1260	11096-82-5	2.9		0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

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SSFL Area IV Collocated Soil Sampling
SL-145-SA6-SS-0.0-0.5

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00145 SDG#: DE202-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510	1
10501	Isopropanol	67-63-0	100	U	100	510	1
10501	Methanol	67-56-1	100	U	100	510	1
	The sample was analyzed in hold with bracketing calibration check standards that were outside the method limits. The blank and sample had reportable recoveries for target compounds. The sample was re-extracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. The re-extract results are reported.						
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10	1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10	1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.0	U	4.0	12	10
10199	EFH (C15-C20)	n.a.	6.3	J	4.0	12	10
10199	EFH (C21-C30)	n.a.	160		4.0	12	10
10199	EFH (C30 - C40)	n.a.	420		4.0	12	10
10199	EFH (C8-C11)	n.a.	4.0	U	4.0	12	10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,200		6.00	19.8	1
07914	Boron	7440-42-8	5.07		0.357	4.96	1
01650	Calcium	7440-70-2	2,370		2.48	19.8	1
01654	Iron	7439-89-6	18,600		2.59	19.8	1
01656	Lithium	7439-93-2	22.6		0.62	2.0	1
01657	Magnesium	7439-95-4	4,060		0.437	9.92	1
06958	Manganese	7439-96-5	280		0.0357	0.496	1
10145	Phosphorus	7723-14-0	361		0.347	9.92	1
01662	Potassium	7440-09-7	3,080		11.2	49.6	1
01667	Sodium	7440-23-5	64.1	J	5.90	99.2	1
07968	Strontium	7440-24-6	15.6		0.0248	0.496	1
06969	Tin	7440-31-5	2.90	J	0.318	9.92	1
06970	Titanium	7440-32-6	970		0.0705	0.992	1
10146	Zirconium	7440-67-7	2.79	J	0.456	4.96	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.132	J	0.0749	0.202	2

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00145 SDG#: DE202-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	12.5		0.0810	0.405	2
06126	Barium	7440-39-3	135		0.107	0.405	2
06127	Beryllium	7440-41-7	0.809		0.0162	0.101	2
06128	Cadmium	7440-43-9	0.445		0.0445	0.101	2
06131	Chromium	7440-47-3	23.3		0.121	0.405	2
06132	Cobalt	7440-48-4	8.43		0.0202	0.101	2
06133	Copper	7440-50-8	12.2		0.0810	0.405	2
06135	Lead	7439-92-1	20.0		0.0103	0.202	2
06138	Molybdenum	7439-98-7	0.848		0.0506	0.101	2
06139	Nickel	7440-02-0	17.8		0.101	0.405	2
06141	Selenium	7782-49-2	0.129	J	0.0587	0.405	2
06142	Silver	7440-22-4	0.0585	J	0.0144	0.101	2
06145	Thallium	7440-28-0	0.364		0.0304	0.101	2
06148	Vanadium	7440-62-2	46.8		0.0223	0.101	2
06149	Zinc	7440-66-6	93.1		0.567	3.04	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0786	J	0.0067	0.0951	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.25		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.2		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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SL-145-SA6-SS-0.0-0.5

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00145 SDG#: DE202-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11208SLE026	08/10/2011 12:34	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11208SLG026	08/02/2011 15:40	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11208SLG026	07/28/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11208SLE026	07/28/2011 06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090021A	08/02/2011 23:58	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100005A	08/19/2011 03:29	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112080012A	07/28/2011 22:33	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100005A	07/29/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112080012A	07/27/2011 19:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090021A	07/28/2011 20:30	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112070029A	07/27/2011 13:28	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112010013A	07/21/2011 15:01	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112090029A	07/30/2011 01:23	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112080002A	07/28/2011 10:13	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112080002A	07/27/2011 09:55	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112090029A	07/28/2011 18:15	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112070029A	07/26/2011 22:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112010013A	07/21/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112015708003	07/28/2011 21:43	John P Hook	1
07914	Boron	SW-846 6010B	1	112015708003	07/28/2011 21:43	John P Hook	1
01650	Calcium	SW-846 6010B	1	112015708003	07/28/2011 21:43	John P Hook	1
01654	Iron	SW-846 6010B	1	112015708003	07/28/2011 21:43	John P Hook	1
01656	Lithium	SW-846 6010B	1	112015708003	07/28/2011 21:43	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112015708003	07/28/2011 21:43	John P Hook	1
06958	Manganese	SW-846 6010B	1	112015708003	07/28/2011 21:43	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112015708003	07/28/2011 21:43	John P Hook	1
01662	Potassium	SW-846 6010B	1	112015708003	07/28/2011 21:43	John P Hook	1
01667	Sodium	SW-846 6010B	1	112015708003	07/28/2011 21:43	John P Hook	1
07968	Strontium	SW-846 6010B	1	112015708003	07/28/2011 21:43	John P Hook	1
06969	Tin	SW-846 6010B	1	112015708003	07/28/2011 21:43	John P Hook	1
06970	Titanium	SW-846 6010B	1	112015708003	07/28/2011 21:43	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112015708003	07/28/2011 21:43	John P Hook	1
06124	Antimony	SW-846 6020	1	112011026004A	07/27/2011 15:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112011026004A	07/27/2011 15:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112011026004D	07/27/2011 15:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112011026004A	07/27/2011 15:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112011026004A	07/27/2011 15:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112011026004A	07/27/2011 15:57	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-145-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA6-SS-0.0-0.5

LLI Sample # SW 6348158
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:33

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00145 SDG#: DE202-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	112011026004A	07/27/2011 15:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112011026004A	07/27/2011 15:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112011026004A	07/27/2011 15:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112011026004C	07/27/2011 15:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112011026004A	07/27/2011 15:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112011026004B	07/27/2011 22:16	David K Beck	2
06142	Silver	SW-846 6020	1	112011026004A	07/27/2011 15:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112011026004A	07/27/2011 15:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112011026004A	07/27/2011 15:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112011026004A	07/27/2011 15:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112015711003	07/21/2011 09:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112015708003	07/20/2011 21:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112011026004	07/20/2011 21:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112015711003	07/21/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209373203A	07/31/2011 02:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11207495201A	07/28/2011 05:40	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11212243201A	08/02/2011 18:29	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209373203A	07/28/2011 20:05	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11207495201A	07/26/2011 21:30	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039401A	07/26/2011 19:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11212243201A	07/31/2011 05:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402A	07/25/2011 21:01	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-146-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA6-SS-0.0-0.5

LLI Sample # SW 6348159
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:23

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00146 SDG#: DE202-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(a)pyrene	50-32-8	23	J	17	170	1
04688	Benzoic acid	65-85-0	170	U	170	500	1
04688	Benzyl alcohol	100-51-6	170	U	170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170	1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	340	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	500	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-146-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA6-SS-0.0-0.5

LLI Sample # SW 6348159
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:23

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00146 SDG#: DE202-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	17	U	17	170	1
04688	Pentachlorophenol	87-86-5	170	U	170	500	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Pyrene	129-00-0	30	J	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4	5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4	5
10138	Anthracene	120-12-7	1.7	J	1.7	8.4	5
10138	Benzo(a)anthracene	56-55-3	21		3.4	8.4	5
10138	Benzo(b)fluoranthene	205-99-2	35		3.4	8.4	5
10138	Benzo(g,h,i)perylene	191-24-2	7.7	J	3.4	8.4	5
10138	Benzo(k)fluoranthene	207-08-9	12		3.4	8.4	5
10138	Chrysene	218-01-9	25		1.7	8.4	5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4	5
10138	Fluoranthene	206-44-0	29		3.4	8.4	5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	5.5	J	3.4	8.4	5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4	5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4	5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4	5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4	5
10138	Phenanthrene	85-01-8	6.4	J	3.4	8.4	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	13	U	13	13	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	77	U	77	250	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-146-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA6-SS-0.0-0.5

LLI Sample # SW 6348159
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:23

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00146 SDG#: DE202-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250	1
10401	2,4,5-T	93-76-5	0.51	U	0.51	0.51	1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised for 2,4,5-T and 2,4-DB due to interference from the sample matrix.

Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.0	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17	1
01363	Chlordane	57-74-9	2.2	J	0.81	3.4	1
01363	p,p-DDD	72-54-8	0.36	U	0.36	0.36	1
01363	p,p-DDE	72-55-9	0.28	U	0.28	0.34	1
01363	p,p-DDT	50-29-3	3.3		0.33	1.7	5
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17	1
01363	Dieldrin	60-57-1	0.82	U	0.82	0.82	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.43	U	0.43	0.43	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34	1
01363	Endrin	72-20-8	0.067	U	0.067	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.63	U	0.63	0.63	1
01363	Endrin Ketone	53494-70-5	0.27	U	0.27	0.34	1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.47	U	0.47	0.47	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	4.0		1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-146-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA6-SS-0.0-0.5

LLI Sample # SW 6348159
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:23

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00146 SDG#: DE202-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	12		0.33	1.7	1
10225	PCB-1260	11096-82-5	3.6		0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500	1
10501	Isopropanol	67-63-0	100	U	100	500	1
10501	Methanol	67-56-1	100	U	100	500	1

The sample was analyzed in hold with bracketing calibration check standards that were outside the method limits. The blank and sample had reportable recoveries for target compounds. The sample was re-extracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. The re-extract results are reported.

GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10	1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10	1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	20	U	20	60	50
10199	EFH (C15-C20)	n.a.	40	J	20	60	50
10199	EFH (C21-C30)	n.a.	550		20	60	50
10199	EFH (C30 - C40)	n.a.	1,500		20	60	50
10199	EFH (C8-C11)	n.a.	20	U	20	60	50
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,300		6.05	20.0	1
07914	Boron	7440-42-8	4.74	J	0.360	5.00	1
01650	Calcium	7440-70-2	3,070		2.50	20.0	1
01654	Iron	7439-89-6	21,400		2.61	20.0	1
01656	Lithium	7439-93-2	26.1		0.62	2.0	1
01657	Magnesium	7439-95-4	5,070		0.440	10.0	1
06958	Manganese	7439-96-5	331		0.0360	0.500	1
10145	Phosphorus	7723-14-0	453		0.350	10.0	1
01662	Potassium	7440-09-7	3,170		11.3	50.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-146-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA6-SS-0.0-0.5

LLI Sample # SW 6348159
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:23

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00146 SDG#: DE202-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	72.5	J	5.95	100	1
07968	Strontium	7440-24-6	16.5		0.0250	0.500	1
06969	Tin	7440-31-5	3.08	J	0.320	10.0	1
06970	Titanium	7440-32-6	1,120		0.0710	1.00	1
10146	Zirconium	7440-67-7	3.25	J	0.460	5.00	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.218		0.0732	0.198	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.67		0.0792	0.396	2
06126	Barium	7440-39-3	129		0.105	0.396	2
06127	Beryllium	7440-41-7	0.702		0.0158	0.0990	2
06128	Cadmium	7440-43-9	0.247		0.0436	0.0990	2
06131	Chromium	7440-47-3	22.5		0.119	0.396	2
06132	Cobalt	7440-48-4	8.07		0.0198	0.0990	2
06133	Copper	7440-50-8	12.4		0.0792	0.396	2
06135	Lead	7439-92-1	12.7		0.0101	0.198	2
06138	Molybdenum	7439-98-7	0.686		0.0495	0.0990	2
06139	Nickel	7440-02-0	17.4		0.0990	0.396	2
06141	Selenium	7782-49-2	0.128	J	0.0574	0.396	2
06142	Silver	7440-22-4	0.0604	J	0.0141	0.0990	2
06145	Thallium	7440-28-0	0.351		0.0297	0.0990	2
06148	Vanadium	7440-62-2	45.9		0.0218	0.0990	2
06149	Zinc	7440-66-6	90.1		0.554	2.97	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0475	J	0.0067	0.0957	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.55	J	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.84		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.95		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-146-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA6-SS-0.0-0.5

LLI Sample # SW 6348159
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:23

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00146 SDG#: DE202-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11208SLE026	08/10/2011 12:59	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11208SLG026	08/02/2011 16:12	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11208SLG026	07/28/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11208SLE026	07/28/2011 06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090021A	08/03/2011 00:26	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112130022A	08/03/2011 20:25	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100005A	08/19/2011 03:43	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100005A	08/21/2011 00:30	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112080012A	07/28/2011 22:52	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100005A	07/29/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112080012A	07/27/2011 19:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090021A	07/28/2011 20:30	Elaine F Stoltzfus	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112130022A	08/02/2011 10:45	Maria Davenport	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112070029A	07/27/2011 13:43	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112010013A	07/21/2011 15:13	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112090029A	07/30/2011 04:21	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112080002A	07/28/2011 11:01	Heather E Williams	50
11238	EFH Extraction - Soils	SW-846 3550B	1	112080002A	07/27/2011 09:55	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112090029A	07/28/2011 18:15	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112070029A	07/26/2011 22:00	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-146-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA6-SS-0.0-0.5

LLI Sample # SW 6348159
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:23

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00146 SDG#: DE202-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112010013A	07/21/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112015708003	07/28/2011 21:47	John P Hook	1
07914	Boron	SW-846 6010B	1	112015708003	07/28/2011 21:47	John P Hook	1
01650	Calcium	SW-846 6010B	1	112015708003	07/28/2011 21:47	John P Hook	1
01654	Iron	SW-846 6010B	1	112015708003	07/28/2011 21:47	John P Hook	1
01656	Lithium	SW-846 6010B	1	112015708003	07/28/2011 21:47	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112015708003	07/28/2011 21:47	John P Hook	1
06958	Manganese	SW-846 6010B	1	112015708003	07/28/2011 21:47	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112015708003	07/28/2011 21:47	John P Hook	1
01662	Potassium	SW-846 6010B	1	112015708003	07/28/2011 21:47	John P Hook	1
01667	Sodium	SW-846 6010B	1	112015708003	07/28/2011 21:47	John P Hook	1
07968	Strontium	SW-846 6010B	1	112015708003	07/28/2011 21:47	John P Hook	1
06969	Tin	SW-846 6010B	1	112015708003	07/28/2011 21:47	John P Hook	1
06970	Titanium	SW-846 6010B	1	112015708003	07/28/2011 21:47	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112015708003	07/28/2011 21:47	John P Hook	1
06124	Antimony	SW-846 6020	1	112011026004A	07/27/2011 16:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112011026004A	07/27/2011 16:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112011026004D	07/27/2011 16:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112011026004A	07/27/2011 16:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112011026004A	07/27/2011 16:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112011026004A	07/27/2011 16:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112011026004A	07/27/2011 16:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112011026004A	07/27/2011 16:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112011026004A	07/27/2011 16:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112011026004C	07/27/2011 16:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112011026004A	07/27/2011 16:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112011026004B	07/27/2011 22:18	David K Beck	2
06142	Silver	SW-846 6020	1	112011026004A	07/27/2011 16:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112011026004A	07/27/2011 16:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112011026004A	07/27/2011 16:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112011026004A	07/27/2011 16:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112015711003	07/21/2011 09:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112015708003	07/20/2011 21:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112011026004	07/20/2011 21:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112015711003	07/21/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209373203A	07/31/2011 02:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11207495201A	07/28/2011 06:03	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11212243201A	08/02/2011 18:44	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209373203A	07/28/2011 20:05	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11207495201A	07/26/2011 21:30	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-146-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA6-SS-0.0-0.5

LLI Sample # SW 6348159
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:23

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00146 SDG#: DE202-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039401A	07/26/2011 19:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11212243201A	07/31/2011 05:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402A	07/25/2011 21:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-147-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA6-SS-0.0-0.5

LLI Sample # SW 6348160
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:25

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00147 SDG#: DE202-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(a)anthracene	56-55-3	17	J	17	170	1
04688	Benzo(a)pyrene	50-32-8	20	J	17	170	1
04688	Benzo(b)fluoranthene	205-99-2	23	J	17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	17	J	17	170	1
04688	Benzoic acid	65-85-0	170	U	170	500	1
04688	Benzyl alcohol	100-51-6	170	U	170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170	1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Chrysene	218-01-9	17	J	17	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	340	1
04688	Fluoranthene	206-44-0	19	J	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-147-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA6-SS-0.0-0.5

LLI Sample # SW 6348160
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:25

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00147 SDG#: DE202-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	500	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	17	U	17	170	1
04688	Pentachlorophenol	87-86-5	170	U	170	500	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Pyrene	129-00-0	20	J	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4	5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4	5
10138	Anthracene	120-12-7	1.7	U	1.7	8.4	5
10138	Benzo(k)fluoranthene	207-08-9	3.4	U	3.4	8.4	5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4	5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.4	5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4	5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4	5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4	5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4	5
10138	Phenanthrene	85-01-8	3.4	U	3.4	8.4	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	7.5		0.62	1.7	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	77	U	77	250	1

Sample Description: SL-147-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA6-SS-0.0-0.5

LLI Sample # SW 6348160
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:25

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00147 SDG#: DE202-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250	1
10401	2,4,5-T	93-76-5	0.20		0.083	0.17	1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17	1
01363	Chlordane	57-74-9	1.7	J	0.81	3.4	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34	1
01363	p,p-DDE	72-55-9	0.41	U	0.41	0.41	1
01363	p,p-DDT	50-29-3	0.89		0.067	0.34	1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17	1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.31	U	0.31	0.34	1
01363	Endrin	72-20-8	0.081	U	0.081	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34	1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34	1
01363	Heptachlor	76-44-8	0.11	U	0.11	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.10	U	0.10	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.70	U	0.70	0.70	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	6.3		1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	8.9		0.33	1.7	1
10225	PCB-1260	11096-82-5	4.1		0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-147-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA6-SS-0.0-0.5

LLI Sample # SW 6348160
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:25

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00147 SDG#: DE202-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	180	J	100	500	1
10501	Isopropanol	67-63-0	160	J	100	500	1
10501	Methanol	67-56-1	100	U	100	500	1
	The sample was analyzed in hold with bracketing calibration check standards that were outside the method limits. The blank and sample had reportable recoveries for target compounds. The sample was re-extracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. The re-extract results are reported.						
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10	1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10	1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.0	5
10199	EFH (C15-C20)	n.a.	3.4	J	2.0	6.0	5
10199	EFH (C21-C30)	n.a.	63		2.0	6.0	5
10199	EFH (C30 - C40)	n.a.	200		2.0	6.0	5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.0	5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,900		5.98	19.8	1
07914	Boron	7440-42-8	5.09		0.356	4.94	1
01650	Calcium	7440-70-2	3,020		2.47	19.8	1
01654	Iron	7439-89-6	18,200		2.58	19.8	1
01656	Lithium	7439-93-2	22.0		0.61	2.0	1
01657	Magnesium	7439-95-4	3,910		0.435	9.88	1
06958	Manganese	7439-96-5	272		0.0356	0.494	1
10145	Phosphorus	7723-14-0	416		0.346	9.88	1
01662	Potassium	7440-09-7	3,210		11.2	49.4	1
01667	Sodium	7440-23-5	74.1	J	5.88	98.8	1
07968	Strontium	7440-24-6	18.0		0.0247	0.494	1
06969	Tin	7440-31-5	2.94	J	0.316	9.88	1
06970	Titanium	7440-32-6	939		0.0702	0.988	1
10146	Zirconium	7440-67-7	3.33	J	0.455	4.94	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.138	J	0.0731	0.198	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-147-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA6-SS-0.0-0.5

LLI Sample # SW 6348160
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:25

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00147 SDG#: DE202-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.0		0.0790	0.395	2
06126	Barium	7440-39-3	124		0.105	0.395	2
06127	Beryllium	7440-41-7	0.681		0.0158	0.0988	2
06128	Cadmium	7440-43-9	0.648		0.0435	0.0988	2
06131	Chromium	7440-47-3	17.7		0.119	0.395	2
06132	Cobalt	7440-48-4	6.73		0.0198	0.0988	2
06133	Copper	7440-50-8	12.0		0.0790	0.395	2
06135	Lead	7439-92-1	13.3		0.0101	0.198	2
06138	Molybdenum	7439-98-7	0.766		0.0494	0.0988	2
06139	Nickel	7440-02-0	13.6		0.0988	0.395	2
06141	Selenium	7782-49-2	0.122	J	0.0573	0.395	2
06142	Silver	7440-22-4	0.0642	J	0.0140	0.0988	2
06145	Thallium	7440-28-0	0.316		0.0296	0.0988	2
06148	Vanadium	7440-62-2	36.5		0.0217	0.0988	2
06149	Zinc	7440-66-6	105		0.553	2.96	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.669		0.0069	0.0974	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.79	U	0.79	0.99	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.26		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.78		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-147-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA6-SS-0.0-0.5

LLI Sample # SW 6348160
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:25

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00147 SDG#: DE202-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11208SLE026	08/10/2011 13:24	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11208SLG026	08/02/2011 16:45	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11208SLG026	07/28/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11208SLE026	07/28/2011 06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090021A	08/03/2011 00:53	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100005A	08/19/2011 03:58	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112080012A	07/28/2011 23:11	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100005A	07/29/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112080012A	07/27/2011 19:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090021A	07/28/2011 20:30	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112070029A	07/27/2011 13:58	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112010013A	07/21/2011 15:26	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112090029A	07/30/2011 02:08	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112080002A	07/28/2011 09:24	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112080002A	07/27/2011 09:55	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112090029A	07/28/2011 18:15	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112070029A	07/26/2011 22:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112010013A	07/21/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112015708003	07/28/2011 21:51	John P Hook	1
07914	Boron	SW-846 6010B	1	112015708003	07/28/2011 21:51	John P Hook	1
01650	Calcium	SW-846 6010B	1	112015708003	07/28/2011 21:51	John P Hook	1
01654	Iron	SW-846 6010B	1	112015708003	07/28/2011 21:51	John P Hook	1
01656	Lithium	SW-846 6010B	1	112015708003	07/28/2011 21:51	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112015708003	07/28/2011 21:51	John P Hook	1
06958	Manganese	SW-846 6010B	1	112015708003	07/28/2011 21:51	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112015708003	07/28/2011 21:51	John P Hook	1
01662	Potassium	SW-846 6010B	1	112015708003	07/28/2011 21:51	John P Hook	1
01667	Sodium	SW-846 6010B	1	112015708003	07/28/2011 21:51	John P Hook	1
07968	Strontium	SW-846 6010B	1	112015708003	07/28/2011 21:51	John P Hook	1
06969	Tin	SW-846 6010B	1	112015708003	07/28/2011 21:51	John P Hook	1
06970	Titanium	SW-846 6010B	1	112015708003	07/28/2011 21:51	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112015708003	07/28/2011 21:51	John P Hook	1
06124	Antimony	SW-846 6020	1	112011026004A	07/27/2011 16:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112011026004A	07/27/2011 16:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112011026004D	07/27/2011 16:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112011026004A	07/27/2011 16:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112011026004A	07/27/2011 16:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112011026004A	07/27/2011 16:04	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-147-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA6-SS-0.0-0.5

LLI Sample # SW 6348160
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:25

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00147 SDG#: DE202-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	112011026004A	07/27/2011 16:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112011026004A	07/27/2011 16:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112011026004A	07/27/2011 16:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112011026004C	07/27/2011 16:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112011026004A	07/27/2011 16:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112011026004B	07/27/2011 22:19	David K Beck	2
06142	Silver	SW-846 6020	1	112011026004A	07/27/2011 16:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112011026004A	07/27/2011 16:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112011026004A	07/27/2011 16:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112011026004A	07/27/2011 16:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112015711003	07/21/2011 09:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112015708003	07/20/2011 21:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112011026004	07/20/2011 21:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112015711003	07/21/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209373203A	07/31/2011 02:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11207495201A	07/28/2011 06:26	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11212243201A	08/02/2011 18:58	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209373203A	07/28/2011 20:05	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11207495201A	07/26/2011 21:30	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039401A	07/26/2011 19:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11212243201A	07/31/2011 05:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402A	07/25/2011 21:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-148-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA6-SS-0.0-0.5

LLI Sample # SW 6348161
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 11:40

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00148 SDG#: DE202-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170	1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	340	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-148-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA6-SS-0.0-0.5

LLI Sample # SW 6348161
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 11:40

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00148 SDG#: DE202-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.5	5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.5	5
10138	Anthracene	120-12-7	1.7	U	1.7	8.5	5
10138	Benzo(a)anthracene	56-55-3	3.4	U	3.4	8.5	5
10138	Benzo(a)pyrene	50-32-8	3.4	U	3.4	8.5	5
10138	Benzo(b)fluoranthene	205-99-2	3.5	J	3.4	8.5	5
10138	Benzo(g,h,i)perylene	191-24-2	3.4	U	3.4	8.5	5
10138	Benzo(k)fluoranthene	207-08-9	3.4	U	3.4	8.5	5
10138	Chrysene	218-01-9	3.4	J	1.7	8.5	5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.5	5
10138	Fluoranthene	206-44-0	4.2	J	3.4	8.5	5
10138	Fluorene	86-73-7	3.4	U	3.4	8.5	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.5	5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.5	5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.5	5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.5	5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.5	5
10138	Di-n-octylphthalate	117-84-0	40	J	31	92	5
10138	Phenanthrene	85-01-8	3.4	U	3.4	8.5	5
10138	Pyrene	129-00-0	3.7	J	3.4	8.5	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2	1
10401	2,4-DB	94-82-6	1.1	J	0.63	1.7	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7	1
10401	MCPA	94-74-6	1,900	U	1,900	1,900	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-148-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA6-SS-0.0-0.5

LLI Sample # SW 6348161
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 11:40

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00148 SDG#: DE202-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260	1
10401	2,4,5-T	93-76-5	0.16	U	0.16	0.17	1
10401	2,4,5-TP	93-72-1	0.69		0.077	0.17	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised for MCPA and 2,4,5-T due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	3.0	J	0.82	3.5	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35	1
01363	p,p-DDE	72-55-9	1.4	U	1.4	1.4	1
01363	p,p-DDT	50-29-3	5.7		0.67	3.5	10
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17	1
01363	Dieldrin	60-57-1	1.3	U	1.3	1.3	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	1.2	U	1.2	1.2	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35	1
01363	Endrin	72-20-8	0.067	U	0.067	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.54	U	0.54	0.54	1
01363	Endrin Ketone	53494-70-5	0.11	U	0.11	0.35	1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.21	U	0.21	0.21	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.17	U	0.17	0.35	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	20	U	20	67	20
10225	Aroclor 5442	12642-23-8	20	U	20	67	20
10225	Aroclor 5460	11126-42-4	62	J	20	67	20
10225	PCB-1016	12674-11-2	6.7	U	6.7	35	20
10225	PCB-1221	11104-28-2	6.7	U	6.7	35	20
10225	PCB-1232	11141-16-5	6.7	U	6.7	35	20
10225	PCB-1242	53469-21-9	6.7	U	6.7	35	20
10225	PCB-1248	12672-29-6	6.7	U	6.7	35	20
10225	PCB-1254	11097-69-1	70		6.7	35	20
10225	PCB-1260	11096-82-5	8.0	U	8.0	35	20
10225	PCB-1262	37324-23-5	6.7	U	6.7	35	20
10225	PCB-1268	11100-14-4	6.7	U	6.7	35	20

*=This limit was used in the evaluation of the final result

Sample Description: SL-148-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA6-SS-0.0-0.5

LLI Sample # SW 6348161
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 11:40

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00148 SDG#: DE202-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	330	J	100	510	1
10501	Isopropanol	67-63-0	140	J	100	510	1
10501	Methanol	67-56-1	1,100		100	510	1
The sample was analyzed in hold with bracketing calibration check standards that were outside the method limits. The blank and sample had reportable recoveries for target compounds. The sample was re-extracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. The re-extract results are reported.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10	1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10	1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.1	U	4.1	12	10
10199	EFH (C15-C20)	n.a.	5.0	J	4.1	12	10
10199	EFH (C21-C30)	n.a.	84		4.1	12	10
10199	EFH (C30 - C40)	n.a.	290		4.1	12	10
10199	EFH (C8-C11)	n.a.	4.1	U	4.1	12	10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,200		5.95	19.7	1
07914	Boron	7440-42-8	4.96		0.354	4.92	1
01650	Calcium	7440-70-2	3,600		2.46	19.7	1
01654	Iron	7439-89-6	21,700		2.57	19.7	1
01656	Lithium	7439-93-2	25.9		0.61	2.0	1
01657	Magnesium	7439-95-4	5,790		0.433	9.83	1
06958	Manganese	7439-96-5	318		0.0354	0.492	1
10145	Phosphorus	7723-14-0	529		0.344	9.83	1
01662	Potassium	7440-09-7	3,480		11.1	49.2	1
01667	Sodium	7440-23-5	66.9	J	5.85	98.3	1
07968	Strontium	7440-24-6	16.6		0.0246	0.492	1
06969	Tin	7440-31-5	3.10	J	0.315	9.83	1
06970	Titanium	7440-32-6	1,100		0.0698	0.983	1
10146	Zirconium	7440-67-7	3.24	J	0.452	4.92	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.216		0.0742	0.200	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-148-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA6-SS-0.0-0.5

LLI Sample # SW 6348161
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 11:40

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00148 SDG#: DE202-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.14		0.0802	0.401	2
06126	Barium	7440-39-3	140		0.106	0.401	2
06127	Beryllium	7440-41-7	0.713		0.0160	0.100	2
06128	Cadmium	7440-43-9	0.452		0.0441	0.100	2
06131	Chromium	7440-47-3	26.4		0.120	0.401	2
06132	Cobalt	7440-48-4	8.53		0.0200	0.100	2
06133	Copper	7440-50-8	15.2		0.0802	0.401	2
06135	Lead	7439-92-1	19.1		0.0102	0.200	2
06138	Molybdenum	7439-98-7	0.818		0.0501	0.100	2
06139	Nickel	7440-02-0	19.1		0.100	0.401	2
06141	Selenium	7782-49-2	0.129	J	0.0581	0.401	2
06142	Silver	7440-22-4	0.0808	J	0.0142	0.100	2
06145	Thallium	7440-28-0	0.336		0.0301	0.100	2
06148	Vanadium	7440-62-2	48.0		0.0221	0.100	2
06149	Zinc	7440-66-6	106		0.561	3.01	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.136		0.0069	0.0986	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.06		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.2		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-148-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA6-SS-0.0-0.5

LLI Sample # SW 6348161
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 11:40

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00148 SDG#: DE202-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11208SLE026	08/10/2011 13:49	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11208SLG026	08/02/2011 21:26	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11208SLG026	07/28/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11208SLE026	07/28/2011 06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090021A	08/03/2011 01:21	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100005A	08/19/2011 04:12	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100005A	08/21/2011 00:45	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112080012A	08/03/2011 02:51	Sarah M Snyder	20
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100005A	07/29/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112080012A	07/27/2011 19:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090021A	07/28/2011 20:30	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112070029A	07/27/2011 14:13	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112010013A	07/21/2011 15:39	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112090029A	07/30/2011 03:36	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112080002A	07/28/2011 10:37	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112080002A	07/27/2011 09:55	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112090029A	07/28/2011 18:15	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112070029A	07/26/2011 22:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112010013A	07/21/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112015708003	07/28/2011 21:54	John P Hook	1
07914	Boron	SW-846 6010B	1	112015708003	07/28/2011 21:54	John P Hook	1
01650	Calcium	SW-846 6010B	1	112015708003	07/28/2011 21:54	John P Hook	1
01654	Iron	SW-846 6010B	1	112015708003	07/28/2011 21:54	John P Hook	1
01656	Lithium	SW-846 6010B	1	112015708003	07/28/2011 21:54	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112015708003	07/28/2011 21:54	John P Hook	1
06958	Manganese	SW-846 6010B	1	112015708003	07/28/2011 21:54	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112015708003	07/28/2011 21:54	John P Hook	1
01662	Potassium	SW-846 6010B	1	112015708003	07/28/2011 21:54	John P Hook	1
01667	Sodium	SW-846 6010B	1	112015708003	07/28/2011 21:54	John P Hook	1
07968	Strontium	SW-846 6010B	1	112015708003	07/28/2011 21:54	John P Hook	1
06969	Tin	SW-846 6010B	1	112015708003	07/28/2011 21:54	John P Hook	1
06970	Titanium	SW-846 6010B	1	112015708003	07/28/2011 21:54	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112015708003	07/28/2011 21:54	John P Hook	1
06124	Antimony	SW-846 6020	1	112011026004A	07/27/2011 16:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112011026004A	07/27/2011 16:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112011026004D	07/27/2011 16:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112011026004A	07/27/2011 16:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112011026004A	07/27/2011 16:07	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-148-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA6-SS-0.0-0.5

LLI Sample # SW 6348161
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 11:40

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00148 SDG#: DE202-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112011026004A	07/27/2011 16:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112011026004A	07/27/2011 16:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112011026004A	07/27/2011 16:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112011026004A	07/27/2011 16:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112011026004C	07/27/2011 16:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112011026004A	07/27/2011 16:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112011026004B	07/27/2011 22:21	David K Beck	2
06142	Silver	SW-846 6020	1	112011026004A	07/27/2011 16:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112011026004A	07/27/2011 16:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112011026004A	07/27/2011 16:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112011026004A	07/27/2011 16:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112015711003	07/21/2011 09:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112015708003	07/20/2011 21:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112011026004	07/20/2011 21:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112015711003	07/21/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209373203A	07/31/2011 03:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11207495201A	07/28/2011 06:49	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11212243201A	08/02/2011 19:13	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209373203A	07/28/2011 20:05	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11207495201A	07/26/2011 21:30	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039401B	07/26/2011 19:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11212243201A	07/31/2011 05:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402A	07/25/2011 21:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-150-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA6-SS-0.0-0.5

LLI Sample # SW 6348162
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 12:00

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00150 SDG#: DE202-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	500	1
04688	Benzyl alcohol	100-51-6	170	U	170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170	1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	29	J	17	340	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	500	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-150-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA6-SS-0.0-0.5

LLI Sample # SW 6348162
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 12:00

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00150 SDG#: DE202-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	17	U	17	170	1
04688	Pentachlorophenol	87-86-5	170	U	170	500	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4	5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4	5
10138	Anthracene	120-12-7	1.7	U	1.7	8.4	5
10138	Benzo(a)anthracene	56-55-3	4.6	J	3.4	8.4	5
10138	Benzo(a)pyrene	50-32-8	4.3	J	3.4	8.4	5
10138	Benzo(b)fluoranthene	205-99-2	6.7	J	3.4	8.4	5
10138	Benzo(g,h,i)perylene	191-24-2	3.5	J	3.4	8.4	5
10138	Benzo(k)fluoranthene	207-08-9	3.4	J	3.4	8.4	5
10138	Chrysene	218-01-9	6.7	J	1.7	8.4	5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4	5
10138	Fluoranthene	206-44-0	11		3.4	8.4	5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.4	5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4	5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4	5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4	5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4	5
10138	Phenanthrene	85-01-8	3.4	U	3.4	8.4	5
10138	Pyrene	129-00-0	9.6		3.4	8.4	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	8.2	U	8.2	8.2	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	2.3	U	2.3	2.3	1
10401	MCPA	94-74-6	77	U	77	250	1

Sample Description: SL-150-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA6-SS-0.0-0.5

LLI Sample # SW 6348162
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 12:00

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00150 SDG#: DE202-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250	1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17	1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised due for 2,4-DP and 2,4-DB to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17	1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34	1
01363	p,p-DDE	72-55-9	0.31	U	0.31	0.34	1
01363	p,p-DDT	50-29-3	2.1		0.067	0.34	1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17	1
01363	Dieldrin	60-57-1	0.50	U	0.50	0.50	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.21	U	0.21	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34	1
01363	Endrin	72-20-8	0.067	U	0.067	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.49	U	0.49	0.49	1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34	1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.42	U	0.42	0.42	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	23		1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	20		0.33	1.7	1
10225	PCB-1260	11096-82-5	6.7		0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-150-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA6-SS-0.0-0.5

LLI Sample # SW 6348162
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 12:00

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00150 SDG#: DE202-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500	1
10501	Isopropanol	67-63-0	100	U	100	500	1
10501	Methanol	67-56-1	100	U	100	500	1
	The sample was analyzed in hold with bracketing calibration check standards that were outside the method limits. The blank and sample had reportable recoveries for target compounds. The sample was re-extracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. The re-extract results are reported.						
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10	1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10	1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2	1
10199	EFH (C15-C20)	n.a.	1.4		0.40	1.2	1
10199	EFH (C21-C30)	n.a.	15		0.40	1.2	1
10199	EFH (C30 - C40)	n.a.	59		0.40	1.2	1
10199	EFH (C8-C11)	n.a.	0.78	J	0.40	1.2	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,300		6.05	20.0	1
07914	Boron	7440-42-8	5.10		0.360	5.00	1
01650	Calcium	7440-70-2	3,420		2.50	20.0	1
01654	Iron	7439-89-6	21,300		2.61	20.0	1
01656	Lithium	7439-93-2	26.0		0.62	2.0	1
01657	Magnesium	7439-95-4	5,490		0.440	10.0	1
06958	Manganese	7439-96-5	333		0.0360	0.500	1
10145	Phosphorus	7723-14-0	566		0.350	10.0	1
01662	Potassium	7440-09-7	3,860		11.3	50.0	1
01667	Sodium	7440-23-5	64.2	J	5.95	100	1
07968	Strontium	7440-24-6	15.5		0.0250	0.500	1
06969	Tin	7440-31-5	2.95	J	0.320	10.0	1
06970	Titanium	7440-32-6	1,110		0.0710	1.00	1
10146	Zirconium	7440-67-7	3.15	J	0.460	5.00	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.179	J	0.0718	0.194	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-150-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA6-SS-0.0-0.5

LLI Sample # SW 6348162
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 12:00

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00150 SDG#: DE202-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.28		0.0777	0.388	2
06126	Barium	7440-39-3	136		0.103	0.388	2
06127	Beryllium	7440-41-7	0.620		0.0155	0.0971	2
06128	Cadmium	7440-43-9	0.319		0.0427	0.0971	2
06131	Chromium	7440-47-3	23.9		0.116	0.388	2
06132	Cobalt	7440-48-4	7.87		0.0194	0.0971	2
06133	Copper	7440-50-8	14.4		0.0777	0.388	2
06135	Lead	7439-92-1	13.9		0.0099	0.194	2
06138	Molybdenum	7439-98-7	0.869		0.0485	0.0971	2
06139	Nickel	7440-02-0	16.3		0.0971	0.388	2
06141	Selenium	7782-49-2	0.119	J	0.0563	0.388	2
06142	Silver	7440-22-4	0.0588	J	0.0138	0.0971	2
06145	Thallium	7440-28-0	0.307		0.0291	0.0971	2
06148	Vanadium	7440-62-2	44.4		0.0214	0.0971	2
06149	Zinc	7440-66-6	92.0		0.544	2.91	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0627	J	0.0071	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45	J	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.83		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.95		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-150-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA6-SS-0.0-0.5

LLI Sample # SW 6348162
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 12:00

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00150 SDG#: DE202-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11208SLE026	08/10/2011 14:14	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11208SLG026	08/02/2011 21:58	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11208SLG026	07/28/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11208SLE026	07/28/2011 06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090021A	08/03/2011 01:50	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100005A	08/19/2011 04:27	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112080012A	07/28/2011 23:48	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100005A	07/29/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112080012A	07/27/2011 19:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090021A	07/28/2011 20:30	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112070029A	07/27/2011 14:28	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112010013A	07/21/2011 15:52	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112090029A	07/29/2011 23:09	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112080002A	07/28/2011 06:36	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112080002A	07/27/2011 09:55	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112090029A	07/28/2011 18:15	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112070029A	07/26/2011 22:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112010013A	07/21/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112015708003	07/28/2011 21:58	John P Hook	1
07914	Boron	SW-846 6010B	1	112015708003	07/28/2011 21:58	John P Hook	1
01650	Calcium	SW-846 6010B	1	112015708003	07/28/2011 21:58	John P Hook	1
01654	Iron	SW-846 6010B	1	112015708003	07/28/2011 21:58	John P Hook	1
01656	Lithium	SW-846 6010B	1	112015708003	07/28/2011 21:58	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112015708003	07/28/2011 21:58	John P Hook	1
06958	Manganese	SW-846 6010B	1	112015708003	07/28/2011 21:58	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112015708003	07/28/2011 21:58	John P Hook	1
01662	Potassium	SW-846 6010B	1	112015708003	07/28/2011 21:58	John P Hook	1
01667	Sodium	SW-846 6010B	1	112015708003	07/28/2011 21:58	John P Hook	1
07968	Strontium	SW-846 6010B	1	112015708003	07/28/2011 21:58	John P Hook	1
06969	Tin	SW-846 6010B	1	112015708003	07/28/2011 21:58	John P Hook	1
06970	Titanium	SW-846 6010B	1	112015708003	07/28/2011 21:58	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112015708003	07/28/2011 21:58	John P Hook	1
06124	Antimony	SW-846 6020	1	112011026004A	07/27/2011 16:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112011026004A	07/27/2011 16:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112011026004D	07/27/2011 16:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112011026004A	07/27/2011 16:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112011026004A	07/27/2011 16:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112011026004A	07/27/2011 16:10	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-150-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA6-SS-0.0-0.5

LLI Sample # SW 6348162
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 12:00

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00150 SDG#: DE202-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	112011026004A	07/27/2011 16:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112011026004A	07/27/2011 16:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112011026004A	07/27/2011 16:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112011026004C	07/27/2011 16:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112011026004A	07/27/2011 16:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112011026004B	07/27/2011 22:23	David K Beck	2
06142	Silver	SW-846 6020	1	112011026004A	07/27/2011 16:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112011026004A	07/27/2011 16:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112011026004A	07/27/2011 16:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112011026004A	07/27/2011 16:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112015711003	07/21/2011 09:12	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112015708003	07/20/2011 21:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112011026004	07/20/2011 21:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112015711003	07/21/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209373203B	07/31/2011 03:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11207495201B	07/28/2011 07:12	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11212243201A	08/02/2011 19:27	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209373203B	07/28/2011 20:05	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11207495201B	07/26/2011 21:30	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039401B	07/26/2011 19:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11212243201A	07/31/2011 05:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402B	07/25/2011 21:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-152-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA6-SS-0.0-0.5

LLI Sample # SW 6348163
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:08

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00152 SDG#: DE202-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300	1
04688	Benzoic acid	65-85-0	170	U	170	500	1
04688	Benzyl alcohol	100-51-6	170	U	170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170	1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500	1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	88	J	17	330	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	33	U	33	170	1
04688	4-Methylphenol	106-44-5	33	U	33	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	33	U	33	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	500	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	500	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-152-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA6-SS-0.0-0.5

LLI Sample # SW 6348163
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:08

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00152 SDG#: DE202-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170	1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7	1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7	1
10138	Anthracene	120-12-7	0.33	U	0.33	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.67	U	0.67	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18	1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18	1
10138	Chrysene	218-01-9	0.33	U	0.33	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7	1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18	1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18	1
10138	Fluoranthene	206-44-0	0.67	U	0.67	1.7	1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7	1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18	1
10138	Phenanthrene	85-01-8	0.67	U	0.67	1.7	1
10138	Pyrene	129-00-0	0.67	U	0.67	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0	1
10401	2,4-DB	94-82-6	4.4		0.62	1.7	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7	1
10401	MCPA	94-74-6	76	U	76	250	1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-152-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA6-SS-0.0-0.5

LLI Sample # SW 6348163
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:08

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00152 SDG#: DE202-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17	1
10401	2,4,5-TP	93-72-1	0.15	J	0.075	0.17	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17	1
01363	Chlordane	57-74-9	0.80	U	0.80	3.4	1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34	1
01363	p,p-DDE	72-55-9	0.16	U	0.16	0.34	1
01363	p,p-DDT	50-29-3	0.35	U	0.35	0.35	1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17	1
01363	Dieldrin	60-57-1	2.5		0.066	0.34	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.066	U	0.066	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34	1
01363	Endrin	72-20-8	0.066	U	0.066	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.066	U	0.066	0.34	1
01363	Endrin Ketone	53494-70-5	0.40	U	0.40	0.40	1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.7	1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	4.7		1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	1.7		0.33	1.7	1
10225	PCB-1260	11096-82-5	1.1	J	0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-152-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA6-SS-0.0-0.5

LLI Sample # SW 6348163
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:08

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00152 SDG#: DE202-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900		5.93	19.6	1
07914	Boron	7440-42-8	4.63	J	0.353	4.90	1
01650	Calcium	7440-70-2	2,590		2.45	19.6	1
01654	Iron	7439-89-6	19,600		2.56	19.6	1
01656	Lithium	7439-93-2	23.2		0.61	2.0	1
01657	Magnesium	7439-95-4	4,260		0.431	9.80	1
06958	Manganese	7439-96-5	314		0.0353	0.490	1
10145	Phosphorus	7723-14-0	428		0.343	9.80	1
01662	Potassium	7440-09-7	3,680		11.1	49.0	1
01667	Sodium	7440-23-5	69.7	J	5.83	98.0	1
07968	Strontium	7440-24-6	18.4		0.0245	0.490	1
06969	Tin	7440-31-5	2.89	J	0.314	9.80	1
06970	Titanium	7440-32-6	1,040		0.0696	0.980	1
10146	Zirconium	7440-67-7	2.53	J	0.451	4.90	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.165	J	0.0712	0.192	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.85		0.0769	0.385	2
06126	Barium	7440-39-3	153		0.102	0.385	2
06127	Beryllium	7440-41-7	0.757		0.0154	0.0962	2
06128	Cadmium	7440-43-9	0.430		0.0423	0.0962	2
06131	Chromium	7440-47-3	24.3		0.115	0.385	2
06132	Cobalt	7440-48-4	7.82		0.0192	0.0962	2
06133	Copper	7440-50-8	13.1		0.0769	0.385	2
06135	Lead	7439-92-1	13.4		0.0098	0.192	2
06138	Molybdenum	7439-98-7	0.874		0.0481	0.0962	2
06139	Nickel	7440-02-0	18.0		0.0962	0.385	2
06141	Selenium	7782-49-2	0.120	J	0.0558	0.385	2
06142	Silver	7440-22-4	0.0567	J	0.0137	0.0962	2
06145	Thallium	7440-28-0	0.344		0.0288	0.0962	2
06148	Vanadium	7440-62-2	44.9		0.0212	0.0962	2
06149	Zinc	7440-66-6	81.9		0.538	2.88	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0092	J	0.0069	0.0982	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.78	U	0.78	0.98	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.0	U	9.0	30.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44	J	0.20	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-152-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA6-SS-0.0-0.5

LLI Sample # SW 6348163
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:08

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00152 SDG#: DE202-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units		Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.05		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	
11624	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11208SLE026	08/10/2011 14:39	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11208SLG026	08/02/2011 22:31	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11208SLG026	07/28/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11208SLE026	07/28/2011 06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090021A	08/03/2011 02:17	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100005A	08/19/2011 04:41	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112080012A	07/29/2011 00:06	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100005A	07/29/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112080012A	07/27/2011 19:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090021A	07/28/2011 20:30	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112015708003	07/28/2011 22:02	John P Hook	1
07914	Boron	SW-846 6010B	1	112015708003	07/28/2011 22:02	John P Hook	1
01650	Calcium	SW-846 6010B	1	112015708003	07/28/2011 22:02	John P Hook	1
01654	Iron	SW-846 6010B	1	112015708003	07/28/2011 22:02	John P Hook	1
01656	Lithium	SW-846 6010B	1	112015708003	07/28/2011 22:02	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112015708003	07/28/2011 22:02	John P Hook	1
06958	Manganese	SW-846 6010B	1	112015708003	07/28/2011 22:02	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112015708003	07/28/2011 22:02	John P Hook	1
01662	Potassium	SW-846 6010B	1	112015708003	07/28/2011 22:02	John P Hook	1
01667	Sodium	SW-846 6010B	1	112015708003	07/28/2011 22:02	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-152-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA6-SS-0.0-0.5

LLI Sample # SW 6348163
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:08

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00152 SDG#: DE202-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112015708003	07/28/2011 22:02	John P Hook	1
06969	Tin	SW-846 6010B	1	112015708003	07/28/2011 22:02	John P Hook	1
06970	Titanium	SW-846 6010B	1	112015708003	07/28/2011 22:02	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112015708003	07/28/2011 22:02	John P Hook	1
06124	Antimony	SW-846 6020	1	112011026004A	07/27/2011 16:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112011026004A	07/27/2011 16:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112011026004D	07/27/2011 16:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112011026004A	07/27/2011 16:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112011026004A	07/27/2011 16:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112011026004A	07/27/2011 16:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112011026004A	07/27/2011 16:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112011026004A	07/27/2011 16:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112011026004A	07/27/2011 16:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112011026004C	07/27/2011 16:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112011026004A	07/27/2011 16:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112011026004B	07/27/2011 22:24	David K Beck	2
06142	Silver	SW-846 6020	1	112011026004A	07/27/2011 16:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112011026004A	07/27/2011 16:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112011026004A	07/27/2011 16:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112011026004A	07/27/2011 16:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112015711003	07/21/2011 09:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112015708003	07/20/2011 21:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112011026004	07/20/2011 21:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112015711003	07/21/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209373203B	07/31/2011 04:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11207495201B	07/28/2011 08:44	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11212243201A	08/02/2011 19:49	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209373203B	07/28/2011 20:05	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11207495201B	07/26/2011 21:30	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039401B	07/26/2011 19:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11212243201A	07/31/2011 05:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402B	07/25/2011 21:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-155-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA6-SS-0.0-0.5

LLI Sample # SW 6348164
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:16

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00155 SDG#: DE202-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170	1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	340	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-155-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA6-SS-0.0-0.5

LLI Sample # SW 6348164
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:16

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00155 SDG#: DE202-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	17	U	17	170	1
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4	5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4	5
10138	Anthracene	120-12-7	1.7	U	1.7	8.4	5
10138	Benzo(a)anthracene	56-55-3	3.4	U	3.4	8.4	5
10138	Benzo(a)pyrene	50-32-8	4.2	J	3.4	8.4	5
10138	Benzo(b)fluoranthene	205-99-2	7.6	J	3.4	8.4	5
10138	Benzo(g,h,i)perylene	191-24-2	3.6	J	3.4	8.4	5
10138	Benzo(k)fluoranthene	207-08-9	3.6	J	3.4	8.4	5
10138	Chrysene	218-01-9	8.7		1.7	8.4	5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4	5
10138	Fluoranthene	206-44-0	3.4	J	3.4	8.4	5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.4	5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4	5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4	5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4	5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4	5
10138	Phenanthrene	85-01-8	3.4	U	3.4	8.4	5
10138	Pyrene	129-00-0	3.4	U	3.4	8.4	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0	1
10401	2,4-DB	94-82-6	9.8	U	9.8	9.8	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7	1
10401	MCPA	94-74-6	76	U	76	250	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-155-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA6-SS-0.0-0.5

LLI Sample # SW 6348164
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:16

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00155 SDG#: DE202-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250	1
10401	2,4,5-T	93-76-5	0.20	U	0.20	0.20	1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised for 2,4,5-T and 2,4-DB due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17	1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34	1
01363	p,p-DDE	72-55-9	0.17	U	0.17	0.34	1
01363	p,p-DDT	50-29-3	0.44	U	0.44	0.44	1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17	1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34	1
01363	Endrin	72-20-8	0.067	U	0.067	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34	1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34	1
01363	Heptachlor	76-44-8	0.091	J	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	3.2		0.33	1.7	1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-155-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA6-SS-0.0-0.5

LLI Sample # SW 6348164
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:16

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00155 SDG#: DE202-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,800		6.06	20.0	1
07914	Boron	7440-42-8	4.08	J	0.360	5.01	1
01650	Calcium	7440-70-2	2,310		2.50	20.0	1
01654	Iron	7439-89-6	19,300		2.61	20.0	1
01656	Lithium	7439-93-2	23.8		0.62	2.0	1
01657	Magnesium	7439-95-4	4,760		0.440	10.0	1
06958	Manganese	7439-96-5	308		0.0360	0.501	1
10145	Phosphorus	7723-14-0	387		0.350	10.0	1
01662	Potassium	7440-09-7	3,420		11.3	50.1	1
01667	Sodium	7440-23-5	64.8	J	5.96	100	1
07968	Strontium	7440-24-6	16.3		0.0250	0.501	1
06969	Tin	7440-31-5	2.93	J	0.320	10.0	1
06970	Titanium	7440-32-6	1,080		0.0711	1.00	1
10146	Zirconium	7440-67-7	3.07	J	0.461	5.01	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0931	J	0.0734	0.198	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.42		0.0793	0.397	2
06126	Barium	7440-39-3	128		0.105	0.397	2
06127	Beryllium	7440-41-7	0.662		0.0159	0.0991	2
06128	Cadmium	7440-43-9	0.252		0.0436	0.0991	2
06131	Chromium	7440-47-3	21.0		0.119	0.397	2
06132	Cobalt	7440-48-4	7.05		0.0198	0.0991	2
06133	Copper	7440-50-8	10.9		0.0793	0.397	2
06135	Lead	7439-92-1	9.99		0.0101	0.198	2
06138	Molybdenum	7439-98-7	0.676		0.0496	0.0991	2
06139	Nickel	7440-02-0	15.4		0.0991	0.397	2
06141	Selenium	7782-49-2	0.128	J	0.0575	0.397	2
06142	Silver	7440-22-4	0.0430	J	0.0141	0.0991	2
06145	Thallium	7440-28-0	0.332		0.0297	0.0991	2
06148	Vanadium	7440-62-2	41.8		0.0218	0.0991	2
06149	Zinc	7440-66-6	74.2		0.555	2.97	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069	U	0.0069	0.0981	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.81	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49	J	0.20	1.0	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-155-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA6-SS-0.0-0.5

LLI Sample # SW 6348164
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:16

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00155 SDG#: DE202-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.41	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	1.1	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11208SLE026	08/10/2011 15:04	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11208SLG026	08/02/2011 23:02	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11208SLG026	07/28/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11208SLE026	07/28/2011 06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090021A	08/03/2011 02:45	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100005A	08/19/2011 04:55	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112080012A	07/29/2011 00:25	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100005A	07/29/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112080012A	07/27/2011 19:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090021A	07/28/2011 20:30	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112015708003	07/28/2011 22:13	John P Hook	1
07914	Boron	SW-846 6010B	1	112015708003	07/28/2011 22:13	John P Hook	1
01650	Calcium	SW-846 6010B	1	112015708003	07/28/2011 22:13	John P Hook	1
01654	Iron	SW-846 6010B	1	112015708003	07/28/2011 22:13	John P Hook	1
01656	Lithium	SW-846 6010B	1	112015708003	07/28/2011 22:13	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112015708003	07/28/2011 22:13	John P Hook	1
06958	Manganese	SW-846 6010B	1	112015708003	07/28/2011 22:13	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112015708003	07/28/2011 22:13	John P Hook	1
01662	Potassium	SW-846 6010B	1	112015708003	07/28/2011 22:13	John P Hook	1
01667	Sodium	SW-846 6010B	1	112015708003	07/28/2011 22:13	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-155-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA6-SS-0.0-0.5

LLI Sample # SW 6348164
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:16

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00155 SDG#: DE202-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112015708003	07/28/2011 22:13	John P Hook	1
06969	Tin	SW-846 6010B	1	112015708003	07/28/2011 22:13	John P Hook	1
06970	Titanium	SW-846 6010B	1	112015708003	07/28/2011 22:13	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112015708003	07/28/2011 22:13	John P Hook	1
06124	Antimony	SW-846 6020	1	112011026004A	07/27/2011 16:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112011026004A	07/27/2011 16:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112011026004D	07/27/2011 16:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112011026004A	07/27/2011 16:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112011026004A	07/27/2011 16:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112011026004A	07/27/2011 16:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112011026004A	07/27/2011 16:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112011026004A	07/27/2011 16:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112011026004A	07/27/2011 16:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112011026004C	07/27/2011 16:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112011026004A	07/27/2011 16:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112011026004B	07/27/2011 22:26	David K Beck	2
06142	Silver	SW-846 6020	1	112011026004A	07/27/2011 16:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112011026004A	07/27/2011 16:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112011026004A	07/27/2011 16:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112011026004A	07/27/2011 16:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112015711003	07/21/2011 09:14	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112015708003	07/20/2011 21:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112011026004	07/20/2011 21:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112015711003	07/21/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209373203B	07/31/2011 04:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11207495201B	07/28/2011 09:07	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11212243201A	08/02/2011 20:03	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209373203B	07/28/2011 20:05	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11207495201B	07/26/2011 21:30	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039401B	07/26/2011 19:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11212243201A	07/31/2011 05:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402B	07/25/2011 21:01	Scott W Freisher	1

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Analysis Report

Sample Description: SL-176-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA6-SS-0.0-0.5

LLI Sample # SW 6348165
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:34

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00176 SDG#: DE202-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	500	1
04688	Benzyl alcohol	100-51-6	170	U	170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	J	17	340	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	500	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-176-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA6-SS-0.0-0.5

LLI Sample # SW 6348165
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:34

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00176 SDG#: DE202-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	17	U	17	170	1
04688	Pentachlorophenol	87-86-5	170	U	170	500	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4	5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4	5
10138	Anthracene	120-12-7	1.7	U	1.7	8.4	5
10138	Benzo(a)anthracene	56-55-3	3.4	U	3.4	8.4	5
10138	Benzo(a)pyrene	50-32-8	3.4	U	3.4	8.4	5
10138	Benzo(b)fluoranthene	205-99-2	5.0	J	3.4	8.4	5
10138	Benzo(g,h,i)perylene	191-24-2	3.4	U	3.4	8.4	5
10138	Benzo(k)fluoranthene	207-08-9	3.4	U	3.4	8.4	5
10138	Di-n-butylphthalate	84-74-2	46	J	30	91	5
10138	Chrysene	218-01-9	4.8	J	1.7	8.4	5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4	5
10138	Fluoranthene	206-44-0	5.9	J	3.4	8.4	5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.4	5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4	5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4	5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4	5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4	5
10138	Phenanthrene	85-01-8	3.4	U	3.4	8.4	5
10138	Pyrene	129-00-0	5.1	J	3.4	8.4	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.5	J	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	0.94	U	0.94	1.7	1
10401	Dicamba	1918-00-9	0.56	J	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.96	U	0.96	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-176-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA6-SS-0.0-0.5

LLI Sample # SW 6348165
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:34

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00176 SDG#: DE202-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	MCPA	94-74-6	77	U	77	250	1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250	1
10401	2,4,5-T	93-76-5	0.16	U	0.16	0.17	1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised for 2,4-DP, 2,4,5-T, and 2,4-DB due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.093	J	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.078	J	0.034	0.17	1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34	1
01363	p,p-DDE	72-55-9	0.25	U	0.25	0.34	1
01363	p,p-DDT	50-29-3	0.89		0.067	0.34	1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17	1
01363	Dieldrin	60-57-1	0.56		0.067	0.34	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34	1
01363	Endrin	72-20-8	0.067	U	0.067	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34	1
01363	Endrin Ketone	53494-70-5	0.17	U	0.17	0.34	1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	5.0		1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7	1
10225	PCB-1260	11096-82-5	1.5	J	0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-176-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA6-SS-0.0-0.5

LLI Sample # SW 6348165
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:34

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00176 SDG#: DE202-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,100		6.05	20.0	1
07914	Boron	7440-42-8	4.89	J	0.360	5.00	1
01650	Calcium	7440-70-2	2,300		2.50	20.0	1
01654	Iron	7439-89-6	20,500		2.61	20.0	1
01656	Lithium	7439-93-2	24.4		0.62	2.0	1
01657	Magnesium	7439-95-4	4,670		0.440	9.99	1
06958	Manganese	7439-96-5	346		0.0360	0.500	1
10145	Phosphorus	7723-14-0	422		0.350	9.99	1
01662	Potassium	7440-09-7	3,760		11.3	50.0	1
01667	Sodium	7440-23-5	67.7	J	5.95	99.9	1
07968	Strontium	7440-24-6	18.5		0.0250	0.500	1
06969	Tin	7440-31-5	3.07	J	0.320	9.99	1
06970	Titanium	7440-32-6	1,120		0.0709	0.999	1
10146	Zirconium	7440-67-7	2.92	J	0.460	5.00	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.116	J	0.0732	0.198	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.21		0.0792	0.396	2
06126	Barium	7440-39-3	133		0.105	0.396	2
06127	Beryllium	7440-41-7	0.669		0.0158	0.0989	2
06128	Cadmium	7440-43-9	0.334		0.0435	0.0989	2
06131	Chromium	7440-47-3	19.6		0.119	0.396	2
06132	Cobalt	7440-48-4	6.95		0.0198	0.0989	2
06133	Copper	7440-50-8	10.8		0.0792	0.396	2
06135	Lead	7439-92-1	10.7		0.0101	0.198	2
06138	Molybdenum	7439-98-7	0.666		0.0495	0.0989	2
06139	Nickel	7440-02-0	15.3		0.0989	0.396	2
06141	Selenium	7782-49-2	0.116	J	0.0574	0.396	2
06142	Silver	7440-22-4	0.0520	J	0.0141	0.0989	2
06145	Thallium	7440-28-0	0.296		0.0297	0.0989	2
06148	Vanadium	7440-62-2	39.4		0.0218	0.0989	2
06149	Zinc	7440-66-6	87.5		0.554	2.97	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069	U	0.0069	0.0984	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.81	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.56	J	0.20	1.0	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-176-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA6-SS-0.0-0.5

LLI Sample # SW 6348165
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:34

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00176 SDG#: DE202-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.43	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	0.92	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11208SLE026	08/10/2011 15:29	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11208SLG026	08/02/2011 23:35	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11208SLG026	07/28/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11208SLE026	07/28/2011 06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090021A	08/03/2011 03:13	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100005A	08/19/2011 05:10	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112080012A	07/29/2011 01:58	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100005A	07/29/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112080012A	07/27/2011 19:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090021A	07/28/2011 20:30	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112015708003	07/28/2011 22:17	John P Hook	1
07914	Boron	SW-846 6010B	1	112015708003	07/28/2011 22:17	John P Hook	1
01650	Calcium	SW-846 6010B	1	112015708003	07/28/2011 22:17	John P Hook	1
01654	Iron	SW-846 6010B	1	112015708003	07/28/2011 22:17	John P Hook	1
01656	Lithium	SW-846 6010B	1	112015708003	07/28/2011 22:17	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112015708003	07/28/2011 22:17	John P Hook	1
06958	Manganese	SW-846 6010B	1	112015708003	07/28/2011 22:17	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112015708003	07/28/2011 22:17	John P Hook	1
01662	Potassium	SW-846 6010B	1	112015708003	07/28/2011 22:17	John P Hook	1
01667	Sodium	SW-846 6010B	1	112015708003	07/28/2011 22:17	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-176-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA6-SS-0.0-0.5

LLI Sample # SW 6348165
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:34

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00176 SDG#: DE202-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112015708003	07/28/2011 22:17	John P Hook	1
06969	Tin	SW-846 6010B	1	112015708003	07/28/2011 22:17	John P Hook	1
06970	Titanium	SW-846 6010B	1	112015708003	07/28/2011 22:17	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112015708003	07/28/2011 22:17	John P Hook	1
06124	Antimony	SW-846 6020	1	112011026004A	07/27/2011 16:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112011026004A	07/27/2011 16:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112011026004D	07/27/2011 16:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112011026004A	07/27/2011 16:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112011026004A	07/27/2011 16:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112011026004A	07/27/2011 16:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112011026004A	07/27/2011 16:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112011026004A	07/27/2011 16:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112011026004A	07/27/2011 16:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112011026004C	07/27/2011 16:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112011026004A	07/27/2011 16:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112011026004B	07/27/2011 22:31	David K Beck	2
06142	Silver	SW-846 6020	1	112011026004A	07/27/2011 16:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112011026004A	07/27/2011 16:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112011026004A	07/27/2011 16:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112011026004A	07/27/2011 16:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112015711003	07/21/2011 09:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112015708003	07/20/2011 21:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112011026004	07/20/2011 21:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112015711003	07/21/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209373203B	07/31/2011 04:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11207495201B	07/28/2011 09:30	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11212243201A	08/02/2011 20:32	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209373203B	07/28/2011 20:05	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11207495201B	07/26/2011 21:30	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039401B	07/26/2011 19:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11212243201A	07/31/2011 05:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402B	07/25/2011 21:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-182-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA6-SS-0.0-0.5

LLI Sample # SW 6348166
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:45

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00182 SDG#: DE202-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(a)anthracene	56-55-3	18	J	17	170	1
04688	Benzo(a)pyrene	50-32-8	34	J	17	170	1
04688	Benzo(b)fluoranthene	205-99-2	57	J	17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	48	J	17	170	1
04688	Benzo(k)fluoranthene	207-08-9	21	J	17	170	1
04688	Benzoic acid	65-85-0	170	U	170	500	1
04688	Benzyl alcohol	100-51-6	170	U	170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170	1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Chrysene	218-01-9	33	J	17	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	J	17	340	1
04688	Fluoranthene	206-44-0	39	J	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	35	J	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1

3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result

Sample Description: SL-182-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA6-SS-0.0-0.5

LLI Sample # SW 6348166
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:45

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00182 SDG#: DE202-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	500	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	17	U	17	170	1
04688	Pentachlorophenol	87-86-5	170	U	170	500	1
04688	Phenanthrene	85-01-8	18	J	17	170	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Pyrene	129-00-0	40	J	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4	5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4	5
10138	Anthracene	120-12-7	1.7	U	1.7	8.4	5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4	5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4	5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4	5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4	5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4	5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	1.8		0.62	1.7	1
10401	Dicamba	1918-00-9	0.55	J	0.40	1.2	1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7	1
10401	MCPA	94-74-6	76	U	76	250	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-182-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA6-SS-0.0-0.5

LLI Sample # SW 6348166
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:45

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00182 SDG#: DE202-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250	1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17	1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
The LCS data for dicamba is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Dicamba and 2,4-DB were not detected in the reextract.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17	1
01363	Chlordane	57-74-9	4.0		0.80	3.4	1
01363	p,p-DDD	72-54-8	0.091	U	0.091	0.34	1
01363	p,p-DDE	72-55-9	0.47	U	0.47	0.47	1
01363	p,p-DDT	50-29-3	1.2		0.066	0.34	1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17	1
01363	Dieldrin	60-57-1	0.42		0.066	0.34	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.066	U	0.066	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34	1
01363	Endrin	72-20-8	0.066	U	0.066	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.066	U	0.066	0.34	1
01363	Endrin Ketone	53494-70-5	0.14	U	0.14	0.34	1
01363	Heptachlor	76-44-8	0.41	U	0.41	0.41	1
01363	Heptachlor Epoxide	1024-57-3	0.060	U	0.060	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7	1
10225	PCB-1260	11096-82-5	2.4		0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-182-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA6-SS-0.0-0.5

LLI Sample # SW 6348166
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:45

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00182 SDG#: DE202-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,100		5.91	19.5	1
07914	Boron	7440-42-8	4.10	J	0.352	4.88	1
01650	Calcium	7440-70-2	12,600		2.44	19.5	1
01654	Iron	7439-89-6	19,900		2.55	19.5	1
01656	Lithium	7439-93-2	24.5		0.61	2.0	1
01657	Magnesium	7439-95-4	4,880		0.430	9.77	1
06958	Manganese	7439-96-5	281		0.0352	0.488	1
10145	Phosphorus	7723-14-0	465		0.342	9.77	1
01662	Potassium	7440-09-7	3,600		11.0	48.8	1
01667	Sodium	7440-23-5	111		5.81	97.7	1
07968	Strontium	7440-24-6	56.7		0.0244	0.488	1
06969	Tin	7440-31-5	3.06	J	0.313	9.77	1
06970	Titanium	7440-32-6	1,230		0.0693	0.977	1
10146	Zirconium	7440-67-7	2.20	J	0.449	4.88	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.113	J	0.0744	0.201	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.99		0.0805	0.402	2
06126	Barium	7440-39-3	137		0.107	0.402	2
06127	Beryllium	7440-41-7	0.639		0.0161	0.101	2
06128	Cadmium	7440-43-9	0.252		0.0443	0.101	2
06131	Chromium	7440-47-3	20.0		0.121	0.402	2
06132	Cobalt	7440-48-4	8.07		0.0201	0.101	2
06133	Copper	7440-50-8	11.3		0.0805	0.402	2
06135	Lead	7439-92-1	10.2		0.0103	0.201	2
06138	Molybdenum	7439-98-7	0.664		0.0503	0.101	2
06139	Nickel	7440-02-0	13.5		0.101	0.402	2
06141	Selenium	7782-49-2	0.0928	J	0.0584	0.402	2
06142	Silver	7440-22-4	0.0516	J	0.0143	0.101	2
06145	Thallium	7440-28-0	0.347		0.0302	0.101	2
06148	Vanadium	7440-62-2	43.5		0.0221	0.101	2
06149	Zinc	7440-66-6	111		0.563	3.02	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0426	J	0.0070	0.0998	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-182-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA6-SS-0.0-0.5

LLI Sample # SW 6348166
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00182 SDG#: DE202-15

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.49 J	0.20	1.0	1
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.94	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	0.60	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11208SLE026	08/10/2011 21:34	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11208SLG026	08/03/2011 00:06	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11208SLG026	07/28/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11208SLE026	07/28/2011 06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090021A	08/03/2011 03:40	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100005A	08/19/2011 05:26	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112080012A	07/29/2011 02:16	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100005A	07/29/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112080012A	07/27/2011 19:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090021A	07/28/2011 20:30	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112015708003	07/28/2011 22:21	John P Hook	1
07914	Boron	SW-846 6010B	1	112015708003	07/28/2011 22:21	John P Hook	1
01650	Calcium	SW-846 6010B	1	112015708003	07/28/2011 22:21	John P Hook	1
01654	Iron	SW-846 6010B	1	112015708003	07/28/2011 22:21	John P Hook	1
01656	Lithium	SW-846 6010B	1	112015708003	07/28/2011 22:21	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112015708003	07/28/2011 22:21	John P Hook	1
06958	Manganese	SW-846 6010B	1	112015708003	07/28/2011 22:21	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-182-SA6-SS-0.0-0.5 Soil
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00182 SDG#: DE202-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112015708003	07/28/2011 22:21	John P Hook	1
01662	Potassium	SW-846 6010B	1	112015708003	07/28/2011 22:21	John P Hook	1
01667	Sodium	SW-846 6010B	1	112015708003	07/28/2011 22:21	John P Hook	1
07968	Strontium	SW-846 6010B	1	112015708003	07/28/2011 22:21	John P Hook	1
06969	Tin	SW-846 6010B	1	112015708003	07/28/2011 22:21	John P Hook	1
06970	Titanium	SW-846 6010B	1	112015708003	07/28/2011 22:21	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112015708003	07/28/2011 22:21	John P Hook	1
06124	Antimony	SW-846 6020	1	112011026004A	07/27/2011 16:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112011026004A	07/27/2011 16:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112011026004D	07/27/2011 16:30	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112011026004A	07/27/2011 16:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112011026004A	07/27/2011 16:30	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112011026004A	07/27/2011 16:30	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112011026004A	07/27/2011 16:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112011026004A	07/27/2011 16:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112011026004A	07/27/2011 16:30	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112011026004C	07/27/2011 16:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112011026004A	07/27/2011 16:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112011026004B	07/27/2011 22:32	David K Beck	2
06142	Silver	SW-846 6020	1	112011026004A	07/27/2011 16:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112011026004A	07/27/2011 16:30	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112011026004A	07/27/2011 16:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112011026004A	07/27/2011 16:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112015711003	07/21/2011 09:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112015708003	07/20/2011 21:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112011026004	07/20/2011 21:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112015711003	07/21/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209373203B	07/31/2011 05:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11207495201B	07/28/2011 09:53	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11212243201A	08/02/2011 20:47	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209373203B	07/28/2011 20:05	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11207495201B	07/26/2011 21:30	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039401B	07/26/2011 19:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11212243201A	07/31/2011 05:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402B	07/25/2011 21:01	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-183-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA6-SS-0.0-0.5

LLI Sample # SW 6348167
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:20

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00183 SDG#: DE202-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	500	1
04688	Benzyl alcohol	100-51-6	170	U	170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170	1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	J	17	340	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	500	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-183-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA6-SS-0.0-0.5

LLI Sample # SW 6348167
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:20

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00183 SDG#: DE202-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	17	U	17	170	1
04688	Pentachlorophenol	87-86-5	170	U	170	500	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4	5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4	5
10138	Anthracene	120-12-7	1.7	U	1.7	8.4	5
10138	Benzo(a)anthracene	56-55-3	3.4	U	3.4	8.4	5
10138	Benzo(a)pyrene	50-32-8	3.4	U	3.4	8.4	5
10138	Benzo(b)fluoranthene	205-99-2	3.4	U	3.4	8.4	5
10138	Benzo(g,h,i)perylene	191-24-2	3.4	U	3.4	8.4	5
10138	Benzo(k)fluoranthene	207-08-9	3.4	U	3.4	8.4	5
10138	Chrysene	218-01-9	2.0	J	1.7	8.4	5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4	5
10138	Fluoranthene	206-44-0	3.4	U	3.4	8.4	5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.4	5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4	5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4	5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4	5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4	5
10138	Phenanthrene	85-01-8	3.4	U	3.4	8.4	5
10138	Pyrene	129-00-0	3.4	U	3.4	8.4	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0	1
10401	2,4-DB	94-82-6	1.2	J	0.62	1.7	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7	1
10401	MCPA	94-74-6	76	U	76	250	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-183-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA6-SS-0.0-0.5

LLI Sample # SW 6348167
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:20

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00183 SDG#: DE202-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250	1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17	1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17	1
01363	Chlordane	57-74-9	1.1	J	0.81	3.4	1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34	1
01363	p,p-DDE	72-55-9	0.091	U	0.091	0.34	1
01363	p,p-DDT	50-29-3	0.43		0.066	0.34	1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17	1
01363	Dieldrin	60-57-1	0.12	J	0.066	0.34	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.066	U	0.066	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34	1
01363	Endrin	72-20-8	0.066	U	0.066	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.066	U	0.066	0.34	1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34	1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	1.7	J	1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7	1
10225	PCB-1260	11096-82-5	0.48	J	0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		5.97	19.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-183-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA6-SS-0.0-0.5

LLI Sample # SW 6348167
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:20

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00183 SDG#: DE202-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	3.47	J	0.355	4.93	1
01650	Calcium	7440-70-2	3,420		2.47	19.7	1
01654	Iron	7439-89-6	19,900		2.58	19.7	1
01656	Lithium	7439-93-2	23.9		0.61	2.0	1
01657	Magnesium	7439-95-4	4,160		0.434	9.87	1
06958	Manganese	7439-96-5	254		0.0355	0.493	1
10145	Phosphorus	7723-14-0	302		0.345	9.87	1
01662	Potassium	7440-09-7	2,710		11.2	49.3	1
01667	Sodium	7440-23-5	73.3	J	5.87	98.7	1
07968	Strontium	7440-24-6	15.3		0.0247	0.493	1
06969	Tin	7440-31-5	2.99	J	0.316	9.87	1
06970	Titanium	7440-32-6	1,050		0.0701	0.987	1
10146	Zirconium	7440-67-7	3.19	J	0.454	4.93	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.102	J	0.0738	0.199	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.11		0.0797	0.399	2
06126	Barium	7440-39-3	119		0.106	0.399	2
06127	Beryllium	7440-41-7	0.724		0.0159	0.0997	2
06128	Cadmium	7440-43-9	0.291		0.0439	0.0997	2
06131	Chromium	7440-47-3	19.6		0.120	0.399	2
06132	Cobalt	7440-48-4	6.72		0.0199	0.0997	2
06133	Copper	7440-50-8	9.38		0.0797	0.399	2
06135	Lead	7439-92-1	9.45		0.0102	0.199	2
06138	Molybdenum	7439-98-7	0.662		0.0498	0.0997	2
06139	Nickel	7440-02-0	12.9		0.0997	0.399	2
06141	Selenium	7782-49-2	0.0949	J	0.0578	0.399	2
06142	Silver	7440-22-4	0.0389	J	0.0142	0.0997	2
06145	Thallium	7440-28-0	0.362		0.0299	0.0997	2
06148	Vanadium	7440-62-2	39.4		0.0219	0.0997	2
06149	Zinc	7440-66-6	85.4		0.558	2.99	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	U	0.0070	0.0989	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.79	U	0.79	0.99	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.20	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-183-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA6-SS-0.0-0.5

LLI Sample # SW 6348167
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00183 SDG#: DE202-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.70	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	0.66	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11208SLE026	08/10/2011 21:59	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11208SLG026	08/03/2011 00:39	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11208SLG026	07/28/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11208SLE026	07/28/2011 06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090021A	08/03/2011 04:08	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100005A	08/19/2011 07:10	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112080012A	07/29/2011 02:35	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100005A	07/29/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112080012A	07/27/2011 19:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090021A	07/28/2011 20:30	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112015708003	07/28/2011 22:25	John P Hook	1
07914	Boron	SW-846 6010B	1	112015708003	07/28/2011 22:25	John P Hook	1
01650	Calcium	SW-846 6010B	1	112015708003	07/28/2011 22:25	John P Hook	1
01654	Iron	SW-846 6010B	1	112015708003	07/28/2011 22:25	John P Hook	1
01656	Lithium	SW-846 6010B	1	112015708003	07/28/2011 22:25	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112015708003	07/28/2011 22:25	John P Hook	1
06958	Manganese	SW-846 6010B	1	112015708003	07/28/2011 22:25	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112015708003	07/28/2011 22:25	John P Hook	1
01662	Potassium	SW-846 6010B	1	112015708003	07/28/2011 22:25	John P Hook	1
01667	Sodium	SW-846 6010B	1	112015708003	07/28/2011 22:25	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA6-SS-0.0-0.5

LLI Sample # SW 6348167
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:20

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00183 SDG#: DE202-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112015708003	07/28/2011 22:25	John P Hook	1
06969	Tin	SW-846 6010B	1	112015708003	07/28/2011 22:25	John P Hook	1
06970	Titanium	SW-846 6010B	1	112015708003	07/28/2011 22:25	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112015708003	07/28/2011 22:25	John P Hook	1
06124	Antimony	SW-846 6020	1	112011026004A	07/27/2011 16:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112011026004A	07/27/2011 16:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112011026004D	07/27/2011 16:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112011026004A	07/27/2011 16:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112011026004A	07/27/2011 16:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112011026004A	07/27/2011 16:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112011026004A	07/27/2011 16:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112011026004A	07/27/2011 16:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112011026004A	07/27/2011 16:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112011026004C	07/27/2011 16:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112011026004A	07/27/2011 16:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112011026004B	07/27/2011 22:34	David K Beck	2
06142	Silver	SW-846 6020	1	112011026004A	07/27/2011 16:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112011026004A	07/27/2011 16:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112011026004A	07/27/2011 16:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112011026004A	07/27/2011 16:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112015711003	07/21/2011 09:20	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112015708003	07/20/2011 21:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112011026004	07/20/2011 21:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112015711003	07/21/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209373203B	07/31/2011 05:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11207495201B	07/28/2011 10:16	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11212243201A	08/02/2011 21:01	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209373203B	07/28/2011 20:05	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11207495201B	07/26/2011 21:30	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039401B	07/26/2011 19:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11212243201A	07/31/2011 05:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402B	07/25/2011 21:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-184-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA6-SS-0.0-0.5

LLI Sample # SW 6348168
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:27

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00184 SDG#: DE202-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	500	1
04688	Benzyl alcohol	100-51-6	170	U	170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Di-n-butylphthalate	84-74-2	21	J	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	31	J	17	340	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	500	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-184-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA6-SS-0.0-0.5

LLI Sample # SW 6348168
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:27

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00184 SDG#: DE202-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	170	U	170	500	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.97	J	0.67	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18	1
10138	Chrysene	218-01-9	0.99	J	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7	1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18	1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18	1
10138	Fluoranthene	206-44-0	1.3	J	0.67	1.7	1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7	1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18	1
10138	Phenanthrene	85-01-8	0.85	J	0.67	1.7	1
10138	Pyrene	129-00-0	1.1	J	0.67	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	2.1	J	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	3.9		0.62	1.7	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	1.7	1
10401	MCPA	94-74-6	76	U	76	250	1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-184-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA6-SS-0.0-0.5

LLI Sample # SW 6348168
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:27

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00184 SDG#: DE202-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17	1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised for 2,4-DP due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.10	U	0.10	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.20		0.034	0.17	1
01363	Chlordane	57-74-9	3.4	U	3.4	3.4	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34	1
01363	p,p-DDE	72-55-9	0.54	U	0.54	0.54	1
01363	p,p-DDT	50-29-3	3.8		0.67	3.4	10
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17	1
01363	Dieldrin	60-57-1	4.9		0.67	3.4	10
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34	1
01363	Endrin	72-20-8	0.067	U	0.067	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.45	U	0.45	0.45	1
01363	Endrin Ketone	53494-70-5	0.15	U	0.15	0.34	1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.17	U	0.17	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	15		1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	16		0.33	1.7	1
10225	PCB-1254	11097-69-1	24		0.33	1.7	1
10225	PCB-1260	11096-82-5	7.1		0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-184-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA6-SS-0.0-0.5

LLI Sample # SW 6348168
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:27

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00184 SDG#: DE202-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,300		5.92	19.6	1
07914	Boron	7440-42-8	4.30	J	0.352	4.89	1
01650	Calcium	7440-70-2	3,680		2.45	19.6	1
01654	Iron	7439-89-6	16,400		2.55	19.6	1
01656	Lithium	7439-93-2	19.5		0.61	2.0	1
01657	Magnesium	7439-95-4	3,330		0.431	9.79	1
06958	Manganese	7439-96-5	286		0.0352	0.489	1
10145	Phosphorus	7723-14-0	978		0.343	9.79	1
01662	Potassium	7440-09-7	3,080		11.1	48.9	1
01667	Sodium	7440-23-5	71.0	J	5.82	97.9	1
07968	Strontium	7440-24-6	28.6		0.0245	0.489	1
06969	Tin	7440-31-5	2.69	J	0.313	9.79	1
06970	Titanium	7440-32-6	783		0.0695	0.979	1
10146	Zirconium	7440-67-7	3.34	J	0.450	4.89	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.136	J	0.0739	0.200	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.24		0.0799	0.399	2
06126	Barium	7440-39-3	120		0.106	0.399	2
06127	Beryllium	7440-41-7	0.573		0.0160	0.0998	2
06128	Cadmium	7440-43-9	0.548		0.0439	0.0998	2
06131	Chromium	7440-47-3	49.9		0.120	0.399	2
06132	Cobalt	7440-48-4	6.05		0.0200	0.0998	2
06133	Copper	7440-50-8	10.9		0.0799	0.399	2
06135	Lead	7439-92-1	18.5		0.0102	0.200	2
06138	Molybdenum	7439-98-7	0.726		0.0499	0.0998	2
06139	Nickel	7440-02-0	23.4		0.0998	0.399	2
06141	Selenium	7782-49-2	0.140	J	0.0579	0.399	2
06142	Silver	7440-22-4	0.0729	J	0.0142	0.0998	2
06145	Thallium	7440-28-0	0.241		0.0299	0.0998	2
06148	Vanadium	7440-62-2	31.8		0.0220	0.0998	2
06149	Zinc	7440-66-6	159		0.559	2.99	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0127	J	0.0067	0.0953	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.2		0.20	1.0	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-184-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA6-SS-0.0-0.5

LLI Sample # SW 6348168
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:27

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00184 SDG#: DE202-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.82	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	0.81	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11208SLE026	08/10/2011 22:24	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11208SLG026	08/03/2011 01:12	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11208SLG026	07/28/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11208SLE026	07/28/2011 06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090021A	08/03/2011 05:31	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100005A	08/19/2011 07:25	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100005A	08/19/2011 07:40	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112080012A	07/29/2011 02:53	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100005A	07/29/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112080012A	07/27/2011 19:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090021A	07/28/2011 20:30	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112015708003	07/28/2011 22:29	John P Hook	1
07914	Boron	SW-846 6010B	1	112015708003	07/28/2011 22:29	John P Hook	1
01650	Calcium	SW-846 6010B	1	112015708003	07/28/2011 22:29	John P Hook	1
01654	Iron	SW-846 6010B	1	112015708003	07/28/2011 22:29	John P Hook	1
01656	Lithium	SW-846 6010B	1	112015708003	07/28/2011 22:29	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112015708003	07/28/2011 22:29	John P Hook	1
06958	Manganese	SW-846 6010B	1	112015708003	07/28/2011 22:29	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112015708003	07/28/2011 22:29	John P Hook	1
01662	Potassium	SW-846 6010B	1	112015708003	07/28/2011 22:29	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-184-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA6-SS-0.0-0.5

LLI Sample # SW 6348168
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:27

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00184 SDG#: DE202-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	112015708003	07/28/2011 22:29	John P Hook	1
07968	Strontium	SW-846 6010B	1	112015708003	07/28/2011 22:29	John P Hook	1
06969	Tin	SW-846 6010B	1	112015708003	07/28/2011 22:29	John P Hook	1
06970	Titanium	SW-846 6010B	1	112015708003	07/28/2011 22:29	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112015708003	07/28/2011 22:29	John P Hook	1
06124	Antimony	SW-846 6020	1	112011026004A	07/27/2011 16:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112011026004A	07/27/2011 16:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112011026004D	07/27/2011 16:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112011026004A	07/27/2011 16:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112011026004A	07/27/2011 16:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112011026004A	07/27/2011 16:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112011026004A	07/27/2011 16:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112011026004A	07/27/2011 16:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112011026004A	07/27/2011 16:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112011026004C	07/27/2011 16:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112011026004A	07/27/2011 16:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112011026004B	07/27/2011 22:36	David K Beck	2
06142	Silver	SW-846 6020	1	112011026004A	07/27/2011 16:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112011026004A	07/27/2011 16:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112011026004A	07/27/2011 16:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112011026004A	07/27/2011 16:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112015711003	07/21/2011 09:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112015708003	07/20/2011 21:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112011026004	07/20/2011 21:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112015711003	07/21/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209373203B	07/31/2011 05:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11207495201B	07/28/2011 10:39	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11212243201A	08/02/2011 21:15	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209373203B	07/28/2011 20:05	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11207495201B	07/26/2011 21:30	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039401B	07/26/2011 19:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11212243201A	07/31/2011 05:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402B	07/25/2011 21:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-293-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-293-SA6-SS-0.0-0.5

LLI Sample # SW 6348169
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 08:35

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00293 SDG#: DE202-18*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-293-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-293-SA6-SS-0.0-0.5

LLI Sample # SW 6348169
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 08:35

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00293 SDG#: DE202-18*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.55	J	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	2.7		0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	3.0		0.67	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	5.4		0.67	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	1.9		0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	8.7	J	6.1	18	1
10138	Di-n-butylphthalate	84-74-2	9.4	J	6.1	18	1
10138	Chrysene	218-01-9	3.6		0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	16	J	6.1	18	1
10138	Fluoranthene	206-44-0	16		0.67	1.7	1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7	1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	8.2	J	6.1	18	1
10138	Phenanthrene	85-01-8	2.6		0.67	1.7	1
10138	Pyrene	129-00-0	5.0		0.67	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	2.0	U	2.0	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	0.69	U	0.69	1.7	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	77	U	77	250	1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-293-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-293-SA6-SS-0.0-0.5

LLI Sample # SW 6348169
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 08:35

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00293 SDG#: DE202-18*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4,5-T	93-76-5	0.20	U	0.20	0.20	1
10401	2,4,5-TP	93-72-1	0.21		0.076	0.17	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised for 2,4-D, 2,4,5-T, and 2,4-DB due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17	1
01363	Alpha BHC	319-84-6	0.068	J	0.034	0.17	1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17	1
01363	Chlordane	57-74-9	0.80	U	0.80	3.4	1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34	1
01363	p,p-DDE	72-55-9	0.066	U	0.066	0.34	1
01363	p,p-DDT	50-29-3	0.46		0.066	0.34	1
01363	Delta BHC	319-86-8	0.41		0.036	0.17	1
01363	Dieldrin	60-57-1	0.066	U	0.066	0.34	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.066	U	0.066	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34	1
01363	Endrin	72-20-8	0.066	U	0.066	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.066	U	0.066	0.34	1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34	1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.97	U	0.97	0.97	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	1.2	J	1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7	1
10225	PCB-1260	11096-82-5	1.4	J	0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-293-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-293-SA6-SS-0.0-0.5

LLI Sample # SW 6348169
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 08:35

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00293 SDG#: DE202-18*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	J	100	510	1
10501	Isopropanol	67-63-0	140	J	100	510	1
10501	Methanol	67-56-1	450	J	100	510	1
	The sample was analyzed in hold with bracketing calibration check standards that were outside the method limits. The blank and sample had reportable recoveries for target compounds. The sample was re-extracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. The re-extract results are reported.						
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10	1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10	1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2	1
10199	EFH (C15-C20)	n.a.	4.3		0.40	1.2	1
10199	EFH (C21-C30)	n.a.	12		0.40	1.2	1
10199	EFH (C30 - C40)	n.a.	25		0.40	1.2	1
10199	EFH (C8-C11)	n.a.	1.1	J	0.40	1.2	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,800		6.11	20.2	1
07914	Boron	7440-42-8	3.99	J	0.364	5.05	1
01650	Calcium	7440-70-2	2,900		2.53	20.2	1
01654	Iron	7439-89-6	20,700		2.64	20.2	1
01656	Lithium	7439-93-2	24.1		0.63	2.0	1
01657	Magnesium	7439-95-4	5,210		0.444	10.1	1
06958	Manganese	7439-96-5	297		0.0364	0.505	1
10145	Phosphorus	7723-14-0	475		0.354	10.1	1
01662	Potassium	7440-09-7	3,330		11.4	50.5	1
01667	Sodium	7440-23-5	65.0	J	6.01	101	1
07968	Strontium	7440-24-6	13.4		0.0253	0.505	1
06969	Tin	7440-31-5	3.08	J	0.323	10.1	1
06970	Titanium	7440-32-6	1,090		0.0717	1.01	1
10146	Zirconium	7440-67-7	2.85	J	0.465	5.05	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-293-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-293-SA6-SS-0.0-0.5

LLI Sample # SW 6348169
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 08:35

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00293 SDG#: DE202-18*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.101	J	0.0726	0.196	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.45		0.0785	0.392	2
06126	Barium	7440-39-3	94.1		0.104	0.392	2
06127	Beryllium	7440-41-7	0.613		0.0157	0.0981	2
06128	Cadmium	7440-43-9	0.152		0.0431	0.0981	2
06131	Chromium	7440-47-3	21.8		0.118	0.392	2
06132	Cobalt	7440-48-4	6.70		0.0196	0.0981	2
06133	Copper	7440-50-8	9.76		0.0785	0.392	2
06135	Lead	7439-92-1	6.91		0.0100	0.196	2
06138	Molybdenum	7439-98-7	0.486		0.0490	0.0981	2
06139	Nickel	7440-02-0	13.6		0.0981	0.392	2
06141	Selenium	7782-49-2	0.174	J	0.0569	0.392	2
06142	Silver	7440-22-4	0.0401	J	0.0139	0.0981	2
06145	Thallium	7440-28-0	0.278		0.0294	0.0981	2
06148	Vanadium	7440-62-2	39.8		0.0216	0.0981	2
06149	Zinc	7440-66-6	67.1		0.549	2.94	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0068	U	0.0068	0.0971	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.90		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.0		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-293-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-293-SA6-SS-0.0-0.5

LLI Sample # SW 6348169
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 08:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00293 SDG#: DE202-18*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11208SLE026	08/10/2011 22:49	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11208SLG026	08/03/2011 01:44	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11208SLG026	07/28/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11208SLE026	07/28/2011 06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090021A	08/03/2011 05:59	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100005A	08/19/2011 07:55	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112080012A	07/29/2011 03:12	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100005A	07/29/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112080012A	07/27/2011 19:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090021A	07/28/2011 20:30	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112070029A	07/27/2011 14:43	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112010013A	07/21/2011 16:05	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112090029A	07/29/2011 16:27	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112080002A	07/28/2011 04:59	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112080002A	07/27/2011 09:55	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112090029A	07/28/2011 18:15	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112070029A	07/26/2011 22:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112010013A	07/21/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112015708003	07/28/2011 22:33	John P Hook	1
07914	Boron	SW-846 6010B	1	112015708003	07/28/2011 22:33	John P Hook	1
01650	Calcium	SW-846 6010B	1	112015708003	07/28/2011 22:33	John P Hook	1
01654	Iron	SW-846 6010B	1	112015708003	07/28/2011 22:33	John P Hook	1
01656	Lithium	SW-846 6010B	1	112015708003	07/28/2011 22:33	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112015708003	07/28/2011 22:33	John P Hook	1
06958	Manganese	SW-846 6010B	1	112015708003	07/28/2011 22:33	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112015708003	07/28/2011 22:33	John P Hook	1
01662	Potassium	SW-846 6010B	1	112015708003	07/28/2011 22:33	John P Hook	1
01667	Sodium	SW-846 6010B	1	112015708003	07/28/2011 22:33	John P Hook	1
07968	Strontium	SW-846 6010B	1	112015708003	07/28/2011 22:33	John P Hook	1
06969	Tin	SW-846 6010B	1	112015708003	07/28/2011 22:33	John P Hook	1
06970	Titanium	SW-846 6010B	1	112015708003	07/28/2011 22:33	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112015708003	07/28/2011 22:33	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-293-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-293-SA6-SS-0.0-0.5

LLI Sample # SW 6348169
LLI Group # 1256896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 08:35

Submitted: 07/19/2011 09:30
Reported: 08/24/2011 22:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00293 SDG#: DE202-18*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112011026004A	07/27/2011 16:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112011026004A	07/27/2011 16:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112011026004D	07/27/2011 16:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112011026004A	07/27/2011 16:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112011026004A	07/27/2011 16:39	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112011026004A	07/27/2011 16:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112011026004A	07/27/2011 16:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112011026004A	07/27/2011 16:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112011026004A	07/27/2011 16:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112011026004C	07/27/2011 16:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112011026004A	07/27/2011 16:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112011026004B	07/27/2011 22:37	David K Beck	2
06142	Silver	SW-846 6020	1	112011026004A	07/27/2011 16:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112011026004A	07/27/2011 16:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112011026004A	07/27/2011 16:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112011026004A	07/27/2011 16:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112015711003	07/21/2011 09:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112015708003	07/20/2011 21:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112011026004	07/20/2011 21:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112015711003	07/21/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209373203B	07/31/2011 05:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11207495201B	07/28/2011 11:02	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11212243201A	08/02/2011 21:23	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209373203B	07/28/2011 20:05	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11207495201B	07/26/2011 21:30	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11207039401B	07/26/2011 19:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11212243201A	07/31/2011 05:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402B	07/25/2011 21:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256896
Reported: 08/24/11 at 10:16 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11208SLE026	Sample number(s): 6348152-6348169									
Aniline	170 U		170.	500	ug/kg	79		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	55		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	99		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	103		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	109		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	97		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	101		67-125		
Benzoic acid	170 U		170.	500	ug/kg	61*		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	96		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	97		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	105		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	104		79-112		
Carbazole	17	U	17.	170	ug/kg	106		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	101		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	63		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	94		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	89		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	73		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	99		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	96		74-115		
Chrysene	17	U	17.	170	ug/kg	98		76-113		
Dibenzofuran	17	U	17.	170	ug/kg	97		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	90		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	88		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	90		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	65		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	100		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	104		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	100		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	108		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	102		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	50		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	25		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	106		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	102		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	101		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	101		75-117		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256896
Reported: 08/24/11 at 10:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	17	U	17.	170	ug/kg	107		78-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	99		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	96		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	85		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	86		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	99		64-119		
Isophorone	17	U	17.	170	ug/kg	96		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	100		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	95		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	100		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	96		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	76		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	98		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	96		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	96		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	89		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	103		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	112		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	93		51-117		
Phenanthrene	17	U	17.	170	ug/kg	102		77-113		
Phenol	17	U	17.	170	ug/kg	98		58-112		
Pyrene	17	U	17.	170	ug/kg	104		75-115		
Tetralin	170	U	170.	170	ug/kg	101		70-130		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	91		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	102		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		
Batch number: 11208SLG026	Sample number(s): 6348152-6348169									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	91		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	98		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	100		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	82		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	91		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	91		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	76		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	114		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	111		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	102		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	89		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	104		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	97		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	130		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	96		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	98		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	89		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	88		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	93		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	100		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	94		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	106		72-119		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256896
Reported: 08/24/11 at 10:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112090021A	Sample number(s): 6348152-6348169									
2,4-D	1.2	U	1.2	3.6	ug/kg	90		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	42		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	95		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	131*		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	9*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	127		62-170		
MCPA	76	U	76.	250	ug/kg	93		60-130		
MCPP (Mecoprop)	530		75.	250	ug/kg	99		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	84		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	77		68-114		
Batch number: 112130022A	Sample number(s): 6348152,6348159									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	114		85-115		
Batch number: 112080012A	Sample number(s): 6348152-6348169									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	79	71	36-106	10	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	85		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	104		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112100005A	Sample number(s): 6348152-6348169									
Aldrin	0.066	U	0.066	0.17	ug/kg	82		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	62		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	84		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	68		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	103		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	102		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	108		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	81		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	88		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	79		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	128*		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	114		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	93		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	86		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	103		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	68		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	91		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	106		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112010013A	Sample number(s): 6348152-6348162,6348169									
Diethylene glycol	5.0	U	5.0	10	mg/kg	96		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	95		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	90		75-125		
Batch number: 112070029A	Sample number(s): 6348152-6348162,6348169									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256896
Reported: 08/24/11 at 10:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Ethanol	100 U		100.	500	ug/kg	97	101	71-129	5	20
Isopropanol	100 U		100.	500	ug/kg	91	94	75-125	3	20
Methanol	100 U		100.	500	ug/kg	83	86	68-129	3	20
Batch number: 112080002A	Sample number(s): 6348152-6348162,6348169									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	99		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	105		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	109		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	105		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	82		54-107		
Batch number: 112090029A	Sample number(s): 6348152-6348162,6348169									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	87		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	103		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
Batch number: 112011026004A	Sample number(s): 6348152-6348169									
Antimony	0.0740	U	0.0740	0.200	mg/kg	78		40-224		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	109		78-122		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	114		80-120		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	106		81-119		
Chromium	0.120	U	0.120	0.400	mg/kg	112		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	105		80-119		
Copper	0.0800	U	0.0800	0.400	mg/kg	112		78-122		
Lead	0.0102	U	0.0102	0.200	mg/kg	110		77-123		
Nickel	0.100	U	0.100	0.400	mg/kg	112		80-120		
Silver	0.0142	U	0.0142	0.100	mg/kg	107		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	110		75-124		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	118		76-124		
Zinc	0.560	U	0.560	3.00	mg/kg	107		79-121		
Batch number: 112011026004B	Sample number(s): 6348152-6348169									
Selenium	0.0580	U	0.0580	0.400	mg/kg	116		77-123		
Batch number: 112011026004C	Sample number(s): 6348152-6348169									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	109		76-123		
Batch number: 112011026004D	Sample number(s): 6348152-6348169									
Barium	0.106	U	0.106	0.400	mg/kg	111		80-120		
Batch number: 112015708003	Sample number(s): 6348152-6348169									
Aluminum	6.05	U	6.05	20.0	mg/kg	122		42-158		
Boron	0.606	J	0.360	5.00	mg/kg	106		66-134		
Calcium	8.49	J	2.50	20.0	mg/kg	107		79-121		
Iron	2.61	U	2.61	20.0	mg/kg	126		51-149		
Lithium	0.62	U	0.62	2.0	mg/kg	97		80-120		
Magnesium	0.440	U	0.440	10.0	mg/kg	112		64-136		
Manganese	0.0440	J	0.0360	0.500	mg/kg	102		78-122		
Phosphorus	1.39	J	0.350	10.0	mg/kg	100		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	107		69-131		
Sodium	5.95	U	5.95	100	mg/kg	107		71-129		
Strontium	0.0460	J	0.0250	0.500	mg/kg	101		81-119		
Tin	1.63	J	0.320	10.0	mg/kg	99		74-126		
Titanium	0.0830	J	0.0710	1.00	mg/kg	155		40-186		
Zirconium	0.460	U	0.460	5.00	mg/kg	100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256896
Reported: 08/24/11 at 10:16 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112015711003	Sample number(s): 6348152-6348169								
Mercury	0.0070 U	0.0070	0.0991	mg/kg	104		72-128		
Batch number: 11207495201A	Sample number(s): 6348152-6348161								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	107		85-115		
Batch number: 11207495201B	Sample number(s): 6348162-6348169								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	107		85-115		
Batch number: 11209373203A	Sample number(s): 6348152-6348161								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	102		90-110		
Batch number: 11209373203B	Sample number(s): 6348162-6348169								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	102		90-110		
Batch number: 11212243201A	Sample number(s): 6348152-6348169								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	96		80-120		
Batch number: 11207039401A	Sample number(s): 6348152-6348160								
18a pH by 9045C					100		95-105		
Batch number: 11207039401B	Sample number(s): 6348161-6348169								
18a pH by 9045C					100		95-105		
Batch number: 11206162402A	Sample number(s): 6348152-6348161								
Moisture Content by 160.3					100		80-120		
Batch number: 11206162402B	Sample number(s): 6348162-6348169								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11208SLE026	Sample number(s): 6348152-6348169 UNSPK: 6348152								
Aniline	66	34	18-116	64*	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	92	73	65-122	22	30				
Benzo(a)pyrene	101	76	57-126	29	30				
Benzo(b)fluoranthene	100	79	59-125	23	30				
Benzo(g,h,i)perylene	98	78	59-127	24	30				
Benzo(k)fluoranthene	109	77	56-132	34*	30				
Benzoic acid	0*	21	10-173	200*	30				
Benzyl alcohol	92	71	67-115	25	30				
4-Bromophenyl-phenylether	98	80	67-129	20	30				
Butylbenzylphthalate	105	84	73-134	22	30				
Di-n-butylphthalate	101	77	67-123	27	30				
Carbazole	99	73	64-120	30	30				
4-Chloro-3-methylphenol	99	75	62-122	28	30				
4-Chloroaniline	64	30	13-107	71*	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256896
Reported: 08/24/11 at 10:16 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Chloroethoxy)methane	90	72*	75-104	22	30				
bis(2-Chloroethyl)ether	95	74	60-116	24	30				
bis(2-Chloroisopropyl)ether	91	72	55-142	23	30				
2-Chloronaphthalene	80	71	50-141	11	30				
2-Chlorophenol	96	77	73-121	23	30				
4-Chlorophenyl-phenylether	95	74*	80-109	25	30				
Chrysene	92	72	62-128	25	30				
Dibenzofuran	97	74	71-112	27	30				
1,2-Dichlorobenzene	88	72	66-108	21	30				
1,3-Dichlorobenzene	88	71	63-109	21	30				
1,4-Dichlorobenzene	90	71	58-108	24	30				
3,3'-Dichlorobenzidine	65	20*	28-109	105*	30				
2,4-Dichlorophenol	97	75	66-123	25	30				
Diethylphthalate	101	78	66-118	26	30				
2,4-Dimethylphenol	96	77	68-118	22	30				
3,5-Dimethylphenol	103	81	71-127	25	30				
Dimethylphthalate	100	78	64-118	25	30				
4,6-Dinitro-2-methylphenol	56	25	11-126	77*	30				
2,4-Dinitrophenol	21	0*	20-143	200*	30				
2,4-Dinitrotoluene	99	74	56-129	29	30				
2,6-Dinitrotoluene	98	73	69-123	29	30				
1,2-Diphenylhydrazine	101	81	71-129	22	30				
bis(2-Ethylhexyl)phthalate	102	82	63-122	22	30				
Fluoranthene	98	71*	73-112	33*	30				
Hexachlorobenzene	98	76*	77-114	26	30				
Hexachlorobutadiene	94	76	62-120	22	30				
Hexachlorocyclopentadiene	58	42	10-153	33*	30				
Hexachloroethane	88	68	57-109	25	30				
Indeno(1,2,3-cd)pyrene	99	78	61-126	23	30				
Isophorone	91	72*	73-102	23	30				
2-Methylphenol	97	76	75-111	25	30				
4-Methylphenol	94	71	59-123	28	30				
2-Nitroaniline	100	79	67-125	24	30				
3-Nitroaniline	93	66	59-122	35*	30				
4-Nitroaniline	89	58	41-109	42*	30				
Nitrobenzene	95	77	57-125	21	30				
2-Nitrophenol	92	73	56-127	23	30				
4-Nitrophenol	91	69	37-129	28	30				
N-Nitroso-di-n-propylamine	86	69	60-116	23	30				
N-Nitrosodiphenylamine	103	85	71-122	19	30				
Di-n-octylphthalate	122	87	56-126	34*	30				
Pentachlorophenol	46	61	28-127	28	30				
Phenanthrene	99	76	65-125	26	30				
Phenol	95	72	58-126	28	30				
Pyrene	104	78	74-126	28	30				
Tetralin	21*	77	70-130	114*	30				
1,2,4-Trichlorobenzene	91	74	72-115	21	30				
2,4,5-Trichlorophenol	101	79	58-129	24	30				
2,4,6-Trichlorophenol	96	77	56-134	21	30				
Batch number: 11208SLG026	Sample number(s): 6348152-6348169 UNSPK: 6348152								
Acenaphthene	96	92	63-105	4	30				
Acenaphthylene	92	91	67-114	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256896
Reported: 08/24/11 at 10:16 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Anthracene	94	109	73-115	14	30				
Benzo(a)anthracene	32*	381*	59-128	118*	30				
Benzo(a)pyrene	21*	329*	58-142	117*	30				
Benzo(b)fluoranthene	-12*	503*	54-163	134*	30				
Benzo(g,h,i)perylene	19*	92	33-141	78*	30				
Benzo(k)fluoranthene	63	317*	57-153	107*	30				
Butylbenzylphthalate	187*	180*	57-173	4	30				
Di-n-butylphthalate	172*	177*	65-148	3	30				
Chrysene	31*	420*	67-123	120*	30				
Dibenz(a,h)anthracene	51	75	22-133	37*	30				
Diethylphthalate	119	114	70-136	4	30				
Dimethylphthalate	104	108	74-118	4	30				
Bis(2-Ethylhexyl)phthalate	165	170*	39-167	3	30				
Fluoranthene	22*	280*	51-149	98*	30				
Fluorene	100	99	66-122	1	30				
Indeno(1,2,3-cd)pyrene	25	106	21-143	84*	30				
1-Methylnaphthalene	85	92	72-123	8	30				
2-Methylnaphthalene	84	91	64-103	8	30				
Naphthalene	96	96	61-102	0	30				
N-Nitrosodimethylamine	99	89	48-113	11	30				
Di-n-octylphthalate	219*	221*	40-192	1	30				
Phenanthrene	83	91	62-122	8	30				
Pyrene	21*	264*	51-131	97*	30				
Batch number: 112090021A	Sample number(s): 6348152-6348169 UNSPK: 6348152								
2,4-D	100	98	17-180	3	35				
Dalapon	47	46	10-125	3	50				
2,4-DB	82	39	10-201	49	50				
Dicamba	0*	100	10-190	200*	50				
Dinoseb	9*	7*	10-46	24	35				
2,4-DP (Dichlorprop)	95	118	33-178	22	50				
MCPA	25	39	10-213	42	50				
MCPP (Mecoprop)	37	38	10-184	1	50				
2,4,5-T	58	67	10-156	15	35				
2,4,5-TP	81	65	24-141	21	35				
Batch number: 112130022A	Sample number(s): 6348152,6348159 UNSPK: P352971								
6a Perchlorate EPA 6850	119	121*	80-120	2	20				
Batch number: 112080012A	Sample number(s): 6348152-6348169 UNSPK: 6348152								
PCB-1016	53	58	29-146	9	50				
PCB-1260	66	64	39-149	3	50				
Batch number: 112100005A	Sample number(s): 6348152-6348169 UNSPK: 6348153								
Aldrin	73	58	16-126	23	50				
Alpha BHC	50	62	10-129	21	50				
Beta BHC	63	50	14-147	22	50				
Gamma BHC - Lindane	56	71	10-140	23	50				
p,p-DDD	63	87	16-163	32	50				
p,p-DDE	125	98	18-161	23	50				
p,p-DDT	18	56	10-176	32	50				
Delta BHC	91	116	23-140	24	50				
Dieldrin	71	97	19-154	32	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256896
Reported: 08/24/11 at 10:16 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Endosulfan I	53	59	16-137	11	50				
Endosulfan II	88	117	28-154	29	50				
Endosulfan Sulfate	95	68	21-160	34	50				
Endrin	52	69	11-149	27	50				
Endrin Aldehyde	68	91	10-148	29	35				
Endrin Ketone	65	76	22-165	15	50				
Heptachlor	62	74	13-126	17	50				
Heptachlor Epoxide	67	85	13-157	24	50				
Methoxychlor	83	82	32-147	2	50				
Batch number: 112010013A	Sample number(s): 6348152-6348162,6348169 UNSPK: 6348152								
Diethylene glycol	14*	12*	59-109	18	20				
Ethylene glycol	44*	42*	63-107	4	20				
Propylene glycol	59*	58*	63-107	2	20				
Batch number: 112080002A	Sample number(s): 6348152-6348162,6348169 UNSPK: 6348152								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	17*	-36*	49-123	14	20				
EFH (C21-C30)	-1851 (2)	-683 (2)	49-123	28*	20				
EFH (C30 - C40)	-2249 (2)	-1067 (2)	49-123	12	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 112090029A	Sample number(s): 6348152-6348162,6348169 UNSPK: P346970								
m-Terphenyl	72*	79	75-125	9	20				
o-Terphenyl	101	102	75-125	1	20				
p-Terphenyl	84	84	75-125	0	20				
Batch number: 112011026004A	Sample number(s): 6348152-6348169 UNSPK: 6348152 BKG: 6348152								
Antimony	44*	42*	75-125	4	20	0.167 J	0.133 J	23* (1)	20
Arsenic	159 (2)	136 (2)	75-125	3	20	13.3	13.5	1	20
Beryllium	147*	154*	75-125	1	20	0.792	0.787	1	20
Cadmium	152*	153*	75-125	2	20	0.580	0.701	19	20
Chromium	127*	123	75-125	2	20	23.2	23.9	3	20
Cobalt	151*	150*	75-125	3	20	8.49	8.59	1	20
Copper	160*	159*	75-125	2	20	11.9	12.9	8	20
Lead	206 (2)	262 (2)	75-125	6	20	16.9	35.0	70*	20
Nickel	148*	146*	75-125	2	20	18.0	17.7	2	20
Silver	156*	156*	75-125	3	20	0.0786 J	0.0742 J	6 (1)	20
Thallium	169*	168*	75-125	3	20	0.338	0.367	8 (1)	20
Vanadium	163 (2)	146 (2)	75-125	4	20	44.2	47.2	6	20
Zinc	189 (2)	171 (2)	75-125	2	20	94.9	99.2	4	20
Batch number: 112011026004B	Sample number(s): 6348152-6348169 UNSPK: 6348152 BKG: 6348152								
Selenium	101	105	75-125	2	20	0.104 J	0.0934 J	11 (1)	20
Batch number: 112011026004C	Sample number(s): 6348152-6348169 UNSPK: 6348152 BKG: 6348152								
Molybdenum	157*	156*	75-125	3	20	0.801	0.784	2	20
Batch number: 112011026004D	Sample number(s): 6348152-6348169 UNSPK: 6348152 BKG: 6348152								
Barium	236 (2)	204 (2)	75-125	2	20	145	150	4	20

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256896
Reported: 08/24/11 at 10:16 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112015708003	Sample number(s): 6348152-6348169 UNSPK: 6348152 BKG: 6348152								
Aluminum	1007 (2)	1212 (2)	75-125	2	20	13,500	13,200	2	20
Boron	97	98	84-115	1	20	5.15	5.16	0 (1)	20
Calcium	132 (2)	142 (2)	75-125	1	20	2,390	2,400	1	20
Iron	-92 (2)	568 (2)	75-125	3	20	19,500	19,700	1	20
Lithium	98	99	82-114	1	20	24.1	23.6	2	20
Magnesium	137 (2)	117 (2)	75-125	1	20	4,120	4,160	1	20
Manganese	107 (2)	162 (2)	75-125	7	20	282	295	4	20
Phosphorus	94 (2)	89 (2)	75-125	1	20	406	400	2	20
Potassium	104	107	75-125	0	20	3,530	3,470	2	20
Sodium	97	98	75-125	1	20	71.9 J	69.5 J	3 (1)	20
Strontium	97	99	75-115	0	20	15.4	15.8	3	20
Tin	92	93	80-110	1	20	3.37 J	2.94 J	14 (1)	20
Titanium	262 (2)	288 (2)	75-125	2	20	978	1,000	2	20
Zirconium	93	94	75-125	1	20	3.18 J	3.10 J	3 (1)	20
Batch number: 112015711003	Sample number(s): 6348152-6348169 UNSPK: 6348152 BKG: 6348152								
Mercury	105	101	65-135	1	20	0.0263 J	0.0321 J	20 (1)	20
Batch number: 11207495201A	Sample number(s): 6348152-6348161 UNSPK: 6348152 BKG: 6348152								
7a Perchlorate EPA 314.0	111		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11207495201B	Sample number(s): 6348162-6348169 UNSPK: 6348162 BKG: 6348162								
7a Perchlorate EPA 314.0	96		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11209373203A	Sample number(s): 6348152-6348161 UNSPK: 6348152 BKG: 6348152								
11a Anions by 300.0 - Fluoride	43*		80-120			0.80 U	0.80 U	0 (1)	20
Batch number: 11209373203B	Sample number(s): 6348162-6348169 UNSPK: 6348162 BKG: 6348162								
11a Anions by 300.0 - Fluoride	80		80-120			0.80 U	0.80 U	0 (1)	20
Batch number: 11212243201A	Sample number(s): 6348152-6348169 UNSPK: 6348155 BKG: 6348155								
3a Cr VI by EPA 7199	90		75-125			0.38 J	0.47 J	20 (1)	20
Batch number: 11207039401A	Sample number(s): 6348152-6348160 BKG: 6348152								
18a pH by 9045C						6.88	6.91	0	3
Batch number: 11207039401B	Sample number(s): 6348161-6348169 BKG: 6348169								
18a pH by 9045C						6.90	6.87	0	3
Batch number: 11206162402A	Sample number(s): 6348152-6348161 BKG: 6348153								
Moisture Content by 160.3						1.2	1.2	0 (1)	20
Batch number: 11206162402B	Sample number(s): 6348162-6348169 BKG: 6348162								
Moisture Content by 160.3						0.95	0.93	1 (1)	20

Surrogate Quality Control

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256896
Reported: 08/24/11 at 10:16 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11208SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6348152	97	92	88	88	90	84
6348153	96	92	87	88	93	84
6348154	89	86	85	83	89	83
6348155	93	91	86	88	93	84
6348156	91	89	85	89	95	82
6348157	91	89	85	91	93	84
6348158	93	90	72	90	92	84
6348159	94	91	87	91	96	83
6348160	88	86	82	89	93	81
6348161	86	84	82	86	90	81
6348162	87	82	82	84	88	79
6348163	92	89	81	90	91	84
6348164	82	80	77	80	80	76
6348165	96	93	91	90	97	84
6348166	93	87	82	86	90	81
6348167	97	89	76	84	88	81
6348168	102	97	89	90	95	84
6348169	88	82	84	81	82	81
Blank	92	90	92	90	88	83
LCS	99	97	96	91	91	85
MS	99	96	89	92	93	85
MSD	75	75	67	72	73	65
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11208SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6348152	106	98	103
6348153	115	93	98
6348154	103	95	99
6348155	106	89	96
6348156	121	95	104
6348157	115	96	107
6348158	100	88	100
6348159	106	92	103
6348160	100	91	104
6348161	98	89	98
6348162	97	89	92
6348163	100	93	100
6348164	102	90	94
6348165	104	91	96
6348166	94	83	87
6348167	106	95	100
6348168	111	93	98
6348169	117	92	101
Blank	97	90	100
LCS	100	91	102
MS	110	96	102
MSD	104	93	102

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256896
Reported: 08/24/11 at 10:16 PM

Surrogate Quality Control

Limits:	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112080012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6348152	73	56
6348153	92	78
6348154	83	66
6348155	83	63
6348156	78	60
6348157	91	74
6348158	88	64
6348159	64	48
6348160	77	56
6348161	106	112
6348162	89	72
6348163	100	73
6348164	101	75
6348165	90	76
6348166	91	66
6348167	98	74
6348168	87	68
6348169	98	86
Blank	89	94
LCS	90	94
LCSD	86	92
MS	72	56
MSD	68	55
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112090021A

	2,4-Dichlorophenylacetic acid
6348152	84
6348153	55
6348154	119
6348155	85
6348156	79
6348157	75
6348158	96
6348159	64
6348160	62
6348161	70
6348162	70
6348163	79
6348164	76
6348165	63
6348166	119
6348167	99
6348168	64
6348169	68
Blank	103

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256896
Reported: 08/24/11 at 10:16 PM

Surrogate Quality Control

LCS	113	
MS	87	
MSD	87	
Limits:	36-156	

Analysis Name: 12a Pesticides by 8081A
Batch number: 112100005A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6348152	78	128*
6348153	55	83
6348154	83	149*
6348155	71	172*
6348156	68	447*
6348157	57	75
6348158	60	118
6348159	66	377*
6348160	47*	128*
6348161	60	107
6348162	66	93
6348163	63	67
6348164	63	86
6348165	58	102
6348166	59	104
6348167	63	103
6348168	62	142*
6348169	55	91
Blank	57	116
LCS	56	118
MS	58	99
MSD	59	81
Limits:	50-130	20-120

Analysis Name: 21a Glycols by 8015B
Batch number: 112010013A

	Tetramethylene glycol
6348152	83
6348153	87
6348154	91
6348155	91
6348156	88
6348157	98
6348158	95
6348159	95
6348160	94
6348161	96
6348162	97
6348169	85
Blank	92
LCS	97
MS	87
MSD	89
Limits:	29-137

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256896
Reported: 08/24/11 at 10:16 PM

Surrogate Quality Control

Analysis Name: 19a Alcohols by 8015B
Batch number: 112070029A

	Acetone
6348152	102
6348153	111
6348154	103
6348155	94
6348156	89
6348157	91
6348158	88
6348159	120
6348160	101
6348161	113
6348162	114
6348169	116
Blank	96
LCS	93
LCSD	93
Limits:	42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112080002A

	Chlorobenzene	Orthoterphenyl
6348152	82	107
6348153	82	107
6348154	83	107
6348155	87	110
6348156	85	106
6348157	81	106
6348158	78	95
6348159	84	106
6348160	79	109
6348161	79	110
6348162	92	113
6348169	94	153*
Blank	86	108
LCS	85	105
MS	91	112
MSD	86	109
Limits:	37-125	47-145

Analysis Name: 20a Terphenyls by 8015B
Batch number: 112090029A

	n-Triacontane-d62
6348152	91
6348153	54
6348154	64
6348155	70
6348156	64
6348157	69
6348158	108
6348159	6*

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256896
Reported: 08/24/11 at 10:16 PM

Surrogate Quality Control

6348160	59
6348161	66
6348162	67
6348169	60
Blank	82
LCS	86
MS	62
MSD	62
Limits:	50-150

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13013/12568961634815 2-69

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
‡ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/6847/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-127-SA6-SS-0.0-0.5	7/18/11	0942	SOIL	NONE	1-SS Sleeve			X	X																	
SL-127-SA6-SS-0.0-0.5	7/18/11	0942	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X	X	X	X	X						X	X	X	
SL-128-SA6-SS-0.0-0.5	7/18/11	0914	SOIL	NONE	1-SS Sleeve			X	X																	
SL-128-SA6-SS-0.0-0.5	7/18/11	0914	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-133-SA6-SS-0.0-0.5	7/18/11	0755	SOIL	NONE	1-SS Sleeve			X	X																	
SL-133-SA6-SS-0.0-0.5	7/18/11	0755	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-134-SA6-SS-0.0-0.5	7/18/11	0829	SOIL	NONE	1-SS Sleeve			X	X																	
SL-134-SA6-SS-0.0-0.5	7/18/11	0829	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-142-SA6-SS-0.0-0.5	7/18/11	1043	SOIL	NONE	1-SS Sleeve			X	X																	
SL-142-SA6-SS-0.0-0.5	7/18/11	1043	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-143-SA6-SS-0.0-0.5	7/18/11	1110	SOIL	NONE	1-SS Sleeve			X	X																	
SL-143-SA6-SS-0.0-0.5	7/18/11	1110	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-145-SA6-SS-0.0-0.5	7/18/11	0933	SOIL	NONE	1-SS Sleeve			X	X																	
SL-145-SA6-SS-0.0-0.5	7/18/11	0933	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-146-SA6-SS-0.0-0.5	7/18/11	1023	SOIL	NONE	1-SS Sleeve			X	X																	
SL-146-SA6-SS-0.0-0.5	7/18/11	1023	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X	X						X	X	X	
SL-147-SA6-SS-0.0-0.5	7/18/11	1025	SOIL	NONE	1-SS Sleeve			X	X																	
SL-147-SA6-SS-0.0-0.5	7/18/11	1025	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-148-SA6-SS-0.0-0.5	7/18/11	1140	SOIL	NONE	1-SS Sleeve			X	X																	
SL-148-SA6-SS-0.0-0.5	7/18/11	1140	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-150-SA6-SS-0.0-0.5	7/18/11	1200	SOIL	NONE	1-SS Sleeve			X	X																	
SL-150-SA6-SS-0.0-0.5	7/18/11	1200	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-152-SA6-SS-0.0-0.5	7/18/11	1508	SOIL	NONE	1-SS Sleeve			X	X																	
SL-152-SA6-SS-0.0-0.5	7/18/11	1508	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-155-SA6-SS-0.0-0.5	7/18/11	1416	SOIL	NONE	1-SS Sleeve			X	X																	
SL-155-SA6-SS-0.0-0.5	7/18/11	1416	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-176-SA6-SS-0.0-0.5	7/18/11	1434	SOIL	NONE	1-SS Sleeve			X	X																	
SL-176-SA6-SS-0.0-0.5	7/18/11	1434	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-182-SA6-SS-0.0-0.5	7/18/11	1445	SOIL	NONE	1-SS Sleeve			X	X																	
SL-182-SA6-SS-0.0-0.5	7/18/11	1445	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-183-SA6-SS-0.0-0.5	7/18/11	1520	SOIL	NONE	1-SS Sleeve			X	X																	
SL-183-SA6-SS-0.0-0.5	7/18/11	1520	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-184-SA6-SS-0.0-0.5	7/18/11	1527	SOIL	NONE	1-SS Sleeve			X	X																	
SL-184-SA6-SS-0.0-0.5	7/18/11	1527	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-293-SA6-SS-0.0-0.5	7/18/11	0835	SOIL	NONE	1-SS Sleeve			X	X																	
SL-293-SA6-SS-0.0-0.5	7/18/11	0835	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	07/18/2011 / 1600	7/19/11 980	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3340 9777,9766,9755	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/19/2011
Group Number: 1256902
SDG: DX113
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-127-SA6-SS-0.0-0.5 Soil	6348197
SL-128-SA6-SS-0.0-0.5 Soil	6348198
SL-133-SA6-SS-0.0-0.5 Soil	6348199
SL-134-SA6-SS-0.0-0.5 Soil	6348200
SL-142-SA6-SS-0.0-0.5 Soil	6348201
SL-143-SA6-SS-0.0-0.5 Soil	6348202
SL-145-SA6-SS-0.0-0.5 Soil	6348203
SL-146-SA6-SS-0.0-0.5 Soil	6348204
SL-147-SA6-SS-0.0-0.5 Soil	6348205
SL-148-SA6-SS-0.0-0.5 Soil	6348206
SL-150-SA6-SS-0.0-0.5 Soil	6348207
SL-152-SA6-SS-0.0-0.5 Soil	6348208
SL-155-SA6-SS-0.0-0.5 Soil	6348209

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

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Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-127-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA6-SS-0.0-0.5

LLI Sample # SW 6348197
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:42

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-127 SDG#: DX113-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.86	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-127-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA6-SS-0.0-0.5

LLI Sample # SW 6348197
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:42

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-127 SDG#: DX113-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0522	J	0.0156	1.01	1
11031	12378-PeCDD	40321-76-4	0.164	JB	0.0250	5.03	1
11031	123478-HxCDD	39227-28-6	0.344	JB	0.0600	5.03	1
11031	123678-HxCDD	57653-85-7	1.01	JB	0.0627	5.03	1
11031	123789-HxCDD	19408-74-3	0.719	JB	0.0582	5.03	1
11031	1234678-HpCDD	35822-46-9	30.4	B	0.0727	5.03	1
11031	OCDD	3268-87-9	330	B	0.0527	10.1	1
11031	2378-TCDF	51207-31-9	0.228	JQ	0.0533	1.01	1
11031	12378-PeCDF	57117-41-6	0.141	JB	0.0302	5.03	1
11031	23478-PeCDF	57117-31-4	0.646	JB	0.0271	5.03	1
11031	123478-HxCDF	70648-26-9	1.78	JB	0.0584	5.03	1
11031	123678-HxCDF	57117-44-9	0.539	JB	0.0557	5.03	1
11031	123789-HxCDF	72918-21-9	0.285	JB	0.0424	5.03	1
11031	234678-HxCDF	60851-34-5	0.544	JB	0.0373	5.03	1
11031	1234678-HpCDF	67562-39-4	6.46	B	0.0449	5.03	1
11031	1234789-HpCDF	55673-89-7	0.584	JBQ	0.0429	5.03	1
11031	OCDF	39001-02-0	11.9	B	0.0421	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	50	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	57	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-127-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA6-SS-0.0-0.5

LLI Sample # SW 6348197
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:42

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-127 SDG#: DX113-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-127-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA6-SS-0.0-0.5

LLI Sample # SW 6348197
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:42

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-127 SDG#: DX113-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11208001	07/30/2011 01:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11208001	07/27/2011 11:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402A	07/25/2011 21:01	Scott W Freisher	1

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Analysis Report

Sample Description: SL-128-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SS-0.0-0.5

LLI Sample # SW 6348198
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:14

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-128 SDG#: DX113-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-128-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SS-0.0-0.5

LLI Sample # SW 6348198
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:14

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-128 SDG#: DX113-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0151	U	0.0151	1.00	1
11031	12378-PeCDD	40321-76-4	0.164	JBQ	0.0214	5.02	1
11031	123478-HxCDD	39227-28-6	0.306	JBQ	0.0568	5.02	1
11031	123678-HxCDD	57653-85-7	0.962	JB	0.0598	5.02	1
11031	123789-HxCDD	19408-74-3	0.571	JB	0.0573	5.02	1
11031	1234678-HpCDD	35822-46-9	24.5	B	0.0665	5.02	1
11031	OCDD	3268-87-9	248	B	0.0510	10.0	1
11031	2378-TCDF	51207-31-9	0.0697	J	0.0308	1.00	1
11031	12378-PeCDF	57117-41-6	0.0924	JB	0.0182	5.02	1
11031	23478-PeCDF	57117-31-4	0.307	JB	0.0192	5.02	1
11031	123478-HxCDF	70648-26-9	1.08	JB	0.0441	5.02	1
11031	123678-HxCDF	57117-44-9	0.337	JB	0.0424	5.02	1
11031	123789-HxCDF	72918-21-9	0.207	JB	0.0403	5.02	1
11031	234678-HxCDF	60851-34-5	0.404	JB	0.0329	5.02	1
11031	1234678-HpCDF	67562-39-4	5.73	B	0.0354	5.02	1
11031	1234789-HpCDF	55673-89-7	0.598	JBQ	0.0466	5.02	1
11031	OCDF	39001-02-0	9.05	JB	0.0445	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-128-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SS-0.0-0.5

LLI Sample # SW 6348198
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:14

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-128 SDG#: DX113-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-128-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SS-0.0-0.5

LLI Sample # SW 6348198
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:14

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-128 SDG#: DX113-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11208001	07/30/2011 02:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11208001	07/27/2011 11:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402A	07/25/2011 21:01	Scott W Freisher	1

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Analysis Report

Sample Description: SL-133-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA6-SS-0.0-0.5

LLI Sample # SW 6348199
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 07:55

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-133 SDG#: DX113-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-133-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA6-SS-0.0-0.5

LLI Sample # SW 6348199
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 07:55

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-133 SDG#: DX113-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0788	J	0.0133	0.972	1
11031	12378-PeCDD	40321-76-4	0.150	JBQ	0.0172	4.86	1
11031	123478-HxCDD	39227-28-6	0.162	JB	0.0465	4.86	1
11031	123678-HxCDD	57653-85-7	0.716	JB	0.0496	4.86	1
11031	123789-HxCDD	19408-74-3	0.389	JB	0.0484	4.86	1
11031	1234678-HpCDD	35822-46-9	17.7	B	0.0512	4.86	1
11031	OCDD	3268-87-9	179	B	0.0449	9.72	1
11031	2378-TCDF	51207-31-9	0.126	J	0.0399	0.972	1
11031	12378-PeCDF	57117-41-6	0.119	JB	0.0228	4.86	1
11031	23478-PeCDF	57117-31-4	0.664	JB	0.0223	4.86	1
11031	123478-HxCDF	70648-26-9	2.11	JB	0.0451	4.86	1
11031	123678-HxCDF	57117-44-9	0.452	JBQ	0.0421	4.86	1
11031	123789-HxCDF	72918-21-9	0.225	JB	0.0437	4.86	1
11031	234678-HxCDF	60851-34-5	0.454	JB	0.0357	4.86	1
11031	1234678-HpCDF	67562-39-4	4.89	B	0.0261	4.86	1
11031	1234789-HpCDF	55673-89-7	0.509	JB	0.0368	4.86	1
11031	OCDF	39001-02-0	6.61	JB	0.0418	9.72	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	48	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA6-SS-0.0-0.5

LLI Sample # SW 6348199
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 07:55

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-133 SDG#: DX113-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA6-SS-0.0-0.5

LLI Sample # SW 6348199
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 07:55

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-133 SDG#: DX113-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11208001	07/30/2011 06:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11208001	07/27/2011 11:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402A	07/25/2011 21:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-134-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA6-SS-0.0-0.5

LLI Sample # SW 6348200
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 08:29

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-134 SDG#: DX113-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-134-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA6-SS-0.0-0.5

LLI Sample # SW 6348200
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 08:29

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-134 SDG#: DX113-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.264	JQ	0.0156	1.00	1
11031	12378-PeCDD	40321-76-4	0.154	JBQ	0.0320	5.00	1
11031	123478-HxCDD	39227-28-6	0.175	JB	0.0467	5.00	1
11031	123678-HxCDD	57653-85-7	0.790	JB	0.0473	5.00	1
11031	123789-HxCDD	19408-74-3	0.492	JB	0.0464	5.00	1
11031	1234678-HpCDD	35822-46-9	20.6	B	0.0721	5.00	1
11031	OCDD	3268-87-9	194	B	0.0448	10.0	1
11031	2378-TCDF	51207-31-9	0.449	J	0.116	1.00	1
11031	12378-PeCDF	57117-41-6	1.63	JB	0.0637	5.00	1
11031	23478-PeCDF	57117-31-4	1.00	JB	0.0618	5.00	1
11031	123478-HxCDF	70648-26-9	3.62	JB	0.0714	5.00	1
11031	123678-HxCDF	57117-44-9	0.521	JB	0.0695	5.00	1
11031	123789-HxCDF	72918-21-9	0.263	JB	0.0778	5.00	1
11031	234678-HxCDF	60851-34-5	0.477	JB	0.0712	5.00	1
11031	1234678-HpCDF	67562-39-4	4.91	JB	0.0281	5.00	1
11031	1234789-HpCDF	55673-89-7	0.500	JB	0.0371	5.00	1
11031	OCDF	39001-02-0	8.11	JB	0.0325	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	63	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-134-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA6-SS-0.0-0.5

LLI Sample # SW 6348200
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 08:29

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-134 SDG#: DX113-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-134-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA6-SS-0.0-0.5

LLI Sample # SW 6348200
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 08:29

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-134 SDG#: DX113-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11208001	07/30/2011 07:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11208001	07/27/2011 11:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402A	07/25/2011 21:01	Scott W Freisher	1

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Analysis Report

Sample Description: SL-142-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA6-SS-0.0-0.5

LLI Sample # SW 6348201
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:43

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-142 SDG#: DX113-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-142-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA6-SS-0.0-0.5

LLI Sample # SW 6348201
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:43

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-142 SDG#: DX113-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.273	JQ	0.0183	0.996	1
11031	12378-PeCDD	40321-76-4	0.285	JB	0.0316	4.98	1
11031	123478-HxCDD	39227-28-6	0.428	JBQ	0.0586	4.98	1
11031	123678-HxCDD	57653-85-7	1.11	JB	0.0602	4.98	1
11031	123789-HxCDD	19408-74-3	0.794	JB	0.0585	4.98	1
11031	1234678-HpCDD	35822-46-9	31.2	B	0.0714	4.98	1
11031	OCDD	3268-87-9	310	B	0.0479	9.96	1
11031	2378-TCDF	51207-31-9	0.463	JQ	0.0802	0.996	1
11031	12378-PeCDF	57117-41-6	0.434	JB	0.0417	4.98	1
11031	23478-PeCDF	57117-31-4	0.682	JB	0.0398	4.98	1
11031	123478-HxCDF	70648-26-9	1.78	JB	0.0490	4.98	1
11031	123678-HxCDF	57117-44-9	0.437	JB	0.0471	4.98	1
11031	123789-HxCDF	72918-21-9	0.202	JB	0.0496	4.98	1
11031	234678-HxCDF	60851-34-5	0.478	JB	0.0464	4.98	1
11031	1234678-HpCDF	67562-39-4	5.43	B	0.0312	4.98	1
11031	1234789-HpCDF	55673-89-7	0.457	JBQ	0.0423	4.98	1
11031	OCDF	39001-02-0	10.2	B	0.0283	9.96	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-142-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA6-SS-0.0-0.5

LLI Sample # SW 6348201
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:43

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-142 SDG#: DX113-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-142-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA6-SS-0.0-0.5

LLI Sample # SW 6348201
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:43

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-142 SDG#: DX113-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11208001	07/30/2011 08:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11208001	07/27/2011 11:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402A	07/25/2011 21:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-143-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA6-SS-0.0-0.5

LLI Sample # SW 6348202
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 11:10

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-143 SDG#: DX113-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-143-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA6-SS-0.0-0.5

LLI Sample # SW 6348202
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 11:10

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-143 SDG#: DX113-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.125	JQ	0.0146	0.998	1
11031	12378-PeCDD	40321-76-4	0.188	JB	0.0310	4.99	1
11031	123478-HxCDD	39227-28-6	0.190	JBQ	0.0494	4.99	1
11031	123678-HxCDD	57653-85-7	0.832	JB	0.0518	4.99	1
11031	123789-HxCDD	19408-74-3	0.503	JBQ	0.0506	4.99	1
11031	1234678-HpCDD	35822-46-9	18.2	B	0.0661	4.99	1
11031	OCDD	3268-87-9	173	B	0.0433	9.98	1
11031	2378-TCDF	51207-31-9	0.238	J	0.0538	0.998	1
11031	12378-PeCDF	57117-41-6	0.187	JB	0.0297	4.99	1
11031	23478-PeCDF	57117-31-4	0.608	JB	0.0307	4.99	1
11031	123478-HxCDF	70648-26-9	1.87	JB	0.0426	4.99	1
11031	123678-HxCDF	57117-44-9	0.373	JB	0.0401	4.99	1
11031	123789-HxCDF	72918-21-9	0.0472	U	0.0472	4.99	1
11031	234678-HxCDF	60851-34-5	0.456	JB	0.0387	4.99	1
11031	1234678-HpCDF	67562-39-4	4.19	JB	0.0384	4.99	1
11031	1234789-HpCDF	55673-89-7	0.446	JBQ	0.0539	4.99	1
11031	OCDF	39001-02-0	7.18	JB	0.0494	9.98	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-143-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA6-SS-0.0-0.5

LLI Sample # SW 6348202
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 11:10

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-143 SDG#: DX113-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-143-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA6-SS-0.0-0.5

LLI Sample # SW 6348202
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 11:10

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-143 SDG#: DX113-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11208001	07/30/2011 09:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11208001	07/27/2011 11:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402A	07/25/2011 21:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-145-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA6-SS-0.0-0.5

LLI Sample # SW 6348203
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:33

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-145 SDG#: DX113-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-145-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA6-SS-0.0-0.5

LLI Sample # SW 6348203
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:33

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-145 SDG#: DX113-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.293	JQ	0.0148	1.00	1
11031	12378-PeCDD	40321-76-4	0.182	JB	0.0218	5.01	1
11031	123478-HxCDD	39227-28-6	0.276	JB	0.0473	5.01	1
11031	123678-HxCDD	57653-85-7	1.29	JB	0.0502	5.01	1
11031	123789-HxCDD	19408-74-3	0.606	JBQ	0.0418	5.01	1
11031	1234678-HpCDD	35822-46-9	36.1	B	0.0710	5.01	1
11031	OCDD	3268-87-9	376	B	0.0538	10.0	1
11031	2378-TCDF	51207-31-9	0.356	J	0.0558	1.00	1
11031	12378-PeCDF	57117-41-6	0.381	JB	0.0353	5.01	1
11031	23478-PeCDF	57117-31-4	1.70	JB	0.0341	5.01	1
11031	123478-HxCDF	70648-26-9	6.48	B	0.0622	5.01	1
11031	123678-HxCDF	57117-44-9	1.20	JB	0.0585	5.01	1
11031	123789-HxCDF	72918-21-9	0.558	JB	0.0489	5.01	1
11031	234678-HxCDF	60851-34-5	1.28	JB	0.0423	5.01	1
11031	1234678-HpCDF	67562-39-4	11.8	B	0.0628	5.01	1
11031	1234789-HpCDF	55673-89-7	1.19	JBQ	0.0737	5.01	1
11031	OCDF	39001-02-0	12.8	B	0.0471	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	55	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	60	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-145-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA6-SS-0.0-0.5

LLI Sample # SW 6348203
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:33

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-145 SDG#: DX113-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-145-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA6-SS-0.0-0.5

LLI Sample # SW 6348203
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 09:33

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-145 SDG#: DX113-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11208001	07/30/2011 10:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11208001	07/27/2011 11:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402A	07/25/2011 21:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-146-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA6-SS-0.0-0.5

LLI Sample # SW 6348204
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:23

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-146 SDG#: DX113-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.95	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-146-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA6-SS-0.0-0.5

LLI Sample # SW 6348204
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:23

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-146 SDG#: DX113-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0937	JQ	0.0145	1.01	1
11031	12378-PeCDD	40321-76-4	0.343	JBQ	0.0274	5.03	1
11031	123478-HxCDD	39227-28-6	0.471	JBQ	0.0558	5.03	1
11031	123678-HxCDD	57653-85-7	1.79	JB	0.0570	5.03	1
11031	123789-HxCDD	19408-74-3	0.895	JB	0.0554	5.03	1
11031	1234678-HpCDD	35822-46-9	52.5	B	0.0911	5.03	1
11031	OCDD	3268-87-9	590	B	0.0633	10.1	1
11031	2378-TCDF	51207-31-9	0.706	J	0.116	1.01	1
11031	12378-PeCDF	57117-41-6	0.430	JB	0.0581	5.03	1
11031	23478-PeCDF	57117-31-4	1.95	JB	0.0547	5.03	1
11031	123478-HxCDF	70648-26-9	4.52	JB	0.0595	5.03	1
11031	123678-HxCDF	57117-44-9	1.10	JBQ	0.0569	5.03	1
11031	123789-HxCDF	72918-21-9	0.444	JB	0.0626	5.03	1
11031	234678-HxCDF	60851-34-5	1.25	JB	0.0542	5.03	1
11031	1234678-HpCDF	67562-39-4	13.0	B	0.0487	5.03	1
11031	1234789-HpCDF	55673-89-7	1.45	JB	0.0632	5.03	1
11031	OCDF	39001-02-0	18.9	B	0.0391	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	89	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	93	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	86	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	92	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-146-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA6-SS-0.0-0.5

LLI Sample # SW 6348204
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:23

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-146 SDG#: DX113-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-146-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA6-SS-0.0-0.5

LLI Sample # SW 6348204
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:23

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-146 SDG#: DX113-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11208001	07/30/2011 11:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11208001	07/27/2011 11:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402A	07/25/2011 21:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-147-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA6-SS-0.0-0.5

LLI Sample # SW 6348205
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:25

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-147 SDG#: DX113-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.78	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-147-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA6-SS-0.0-0.5

LLI Sample # SW 6348205
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:25

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-147 SDG#: DX113-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.383	J	0.0195	0.976	1
11031	12378-PeCDD	40321-76-4	0.333	JB	0.0303	4.88	1
11031	123478-HxCDD	39227-28-6	0.380	JB	0.0332	4.88	1
11031	123678-HxCDD	57653-85-7	1.22	JB	0.0340	4.88	1
11031	123789-HxCDD	19408-74-3	0.795	JB	0.0341	4.88	1
11031	1234678-HpCDD	35822-46-9	28.2	B	0.0453	4.88	1
11031	OCDD	3268-87-9	282	B	0.0459	9.76	1
11031	2378-TCDF	51207-31-9	0.423	J	0.0482	0.976	1
11031	12378-PeCDF	57117-41-6	0.348	JBQ	0.0283	4.88	1
11031	23478-PeCDF	57117-31-4	0.641	JB	0.0254	4.88	1
11031	123478-HxCDF	70648-26-9	1.83	JB	0.0288	4.88	1
11031	123678-HxCDF	57117-44-9	0.443	JB	0.0274	4.88	1
11031	123789-HxCDF	72918-21-9	0.205	JB	0.0276	4.88	1
11031	234678-HxCDF	60851-34-5	0.472	JB	0.0248	4.88	1
11031	1234678-HpCDF	67562-39-4	5.29	B	0.0188	4.88	1
11031	1234789-HpCDF	55673-89-7	0.506	JB	0.0275	4.88	1
11031	OCDF	39001-02-0	8.56	JB	0.0219	9.76	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	67	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-147-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA6-SS-0.0-0.5

LLI Sample # SW 6348205
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:25

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-147 SDG#: DX113-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-147-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA6-SS-0.0-0.5

LLI Sample # SW 6348205
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 10:25

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-147 SDG#: DX113-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11208001	08/02/2011 22:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11208001	07/27/2011 11:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402A	07/25/2011 21:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-148-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA6-SS-0.0-0.5

LLI Sample # SW 6348206
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 11:40

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-148 SDG#: DX113-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-148-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA6-SS-0.0-0.5

LLI Sample # SW 6348206
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 11:40

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-148 SDG#: DX113-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0687	JQ	0.0173	1.00	1
11031	12378-PeCDD	40321-76-4	0.380	JBQ	0.0405	5.01	1
11031	123478-HxCDD	39227-28-6	0.654	JB	0.0796	5.01	1
11031	123678-HxCDD	57653-85-7	2.31	JB	0.0869	5.01	1
11031	123789-HxCDD	19408-74-3	1.31	JB	0.0793	5.01	1
11031	1234678-HpCDD	35822-46-9	84.4	B	0.124	5.01	1
11031	OCDD	3268-87-9	1,020	B	0.0938	10.0	1
11650	2378-TCDF-Conf	51207-31-9	0.911	JC	0.0503	1.00	1
11031	12378-PeCDF	57117-41-6	0.404	JB	0.0708	5.01	1
11031	23478-PeCDF	57117-31-4	2.40	JB	0.0704	5.01	1
11031	123478-HxCDF	70648-26-9	4.64	JB	0.0810	5.01	1
11031	123678-HxCDF	57117-44-9	0.976	JB	0.0822	5.01	1
11031	123789-HxCDF	72918-21-9	0.453	JB	0.0584	5.01	1
11031	234678-HxCDF	60851-34-5	1.12	JB	0.0524	5.01	1
11031	1234678-HpCDF	67562-39-4	13.5	B	0.0776	5.01	1
11031	1234789-HpCDF	55673-89-7	1.35	JB	0.0740	5.01	1
11031	OCDF	39001-02-0	37.8	B	0.0524	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-2378-TCDF-Conf	76	24 - 169
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	63	17 - 157
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	47	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	52	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	56	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-148-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA6-SS-0.0-0.5

LLI Sample # SW 6348206
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 11:40

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-148 SDG#: DX113-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-148-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA6-SS-0.0-0.5

LLI Sample # SW 6348206
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 11:40

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-148 SDG#: DX113-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11208001	07/30/2011 13:15	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11208001	08/05/2011 14:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11208001	07/27/2011 11:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402A	07/25/2011 21:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-150-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA6-SS-0.0-0.5

LLI Sample # SW 6348207
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 12:00

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-150 SDG#: DX113-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.95	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-150-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA6-SS-0.0-0.5

LLI Sample # SW 6348207
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 12:00

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-150 SDG#: DX113-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0834	JQ	0.0143	0.995	1
11031	12378-PeCDD	40321-76-4	0.246	JB	0.0297	4.97	1
11031	123478-HxCDD	39227-28-6	0.355	JB	0.0523	4.97	1
11031	123678-HxCDD	57653-85-7	1.11	JB	0.0565	4.97	1
11031	123789-HxCDD	19408-74-3	0.761	JB	0.0525	4.97	1
11031	1234678-HpCDD	35822-46-9	32.1	B	0.0847	4.97	1
11031	OCDD	3268-87-9	322	B	0.0608	9.95	1
11031	2378-TCDF	51207-31-9	0.654	JQ	0.105	0.995	1
11031	12378-PeCDF	57117-41-6	0.176	JB	0.0500	4.97	1
11031	23478-PeCDF	57117-31-4	0.882	JB	0.0500	4.97	1
11031	123478-HxCDF	70648-26-9	2.25	JB	0.0753	4.97	1
11031	123678-HxCDF	57117-44-9	0.426	JB	0.0736	4.97	1
11031	123789-HxCDF	72918-21-9	0.223	JB	0.0639	4.97	1
11031	234678-HxCDF	60851-34-5	0.511	JB	0.0493	4.97	1
11031	1234678-HpCDF	67562-39-4	5.21	B	0.0516	4.97	1
11031	1234789-HpCDF	55673-89-7	0.610	JB	0.0654	4.97	1
11031	OCDF	39001-02-0	10.4	B	0.0523	9.95	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	55	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	51	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-150-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA6-SS-0.0-0.5

LLI Sample # SW 6348207
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 12:00

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-150 SDG#: DX113-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-150-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA6-SS-0.0-0.5

LLI Sample # SW 6348207
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 12:00

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-150 SDG#: DX113-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11208001	07/30/2011 14:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11208001	07/27/2011 11:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402B	07/25/2011 21:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-152-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA6-SS-0.0-0.5

LLI Sample # SW 6348208
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:08

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-152 SDG#: DX113-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%		%	%	
11625	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-152-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA6-SS-0.0-0.5

LLI Sample # SW 6348208
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:08

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-152 SDG#: DX113-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0340	J	0.0140	0.997	1
11031	12378-PeCDD	40321-76-4	0.157	JBQ	0.0217	4.99	1
11031	123478-HxCDD	39227-28-6	0.239	JBQ	0.0508	4.99	1
11031	123678-HxCDD	57653-85-7	0.789	JB	0.0544	4.99	1
11031	123789-HxCDD	19408-74-3	0.712	JB	0.0417	4.99	1
11031	1234678-HpCDD	35822-46-9	23.0	B	0.0741	4.99	1
11031	OCDD	3268-87-9	311	B	0.0509	9.97	1
11031	2378-TCDF	51207-31-9	0.0247	U	0.0247	0.997	1
11031	12378-PeCDF	57117-41-6	0.116	JB	0.0178	4.99	1
11031	23478-PeCDF	57117-31-4	0.208	JB	0.0198	4.99	1
11031	123478-HxCDF	70648-26-9	0.461	JB	0.0472	4.99	1
11031	123678-HxCDF	57117-44-9	0.180	JBQ	0.0414	4.99	1
11031	123789-HxCDF	72918-21-9	0.144	JBQ	0.0398	4.99	1
11031	234678-HxCDF	60851-34-5	0.213	JB	0.0295	4.99	1
11031	1234678-HpCDF	67562-39-4	2.76	JB	0.0432	4.99	1
11031	1234789-HpCDF	55673-89-7	0.289	JBQ	0.0628	4.99	1
11031	OCDF	39001-02-0	6.57	JB	0.0507	9.97	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	62	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	45	26 - 152
13C12-123678-HxCDF	51	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	45	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-152-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA6-SS-0.0-0.5

LLI Sample # SW 6348208
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:08

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-152 SDG#: DX113-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-152-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA6-SS-0.0-0.5

LLI Sample # SW 6348208
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:08

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-152 SDG#: DX113-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11208001	07/30/2011 15:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11208001	07/27/2011 11:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402B	07/25/2011 21:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-155-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA6-SS-0.0-0.5

LLI Sample # SW 6348209
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:16

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-155 SDG#: DX113-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-155-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA6-SS-0.0-0.5

LLI Sample # SW 6348209
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:16

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-155 SDG#: DX113-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0356	JQ	0.0144	0.986	1
11031	12378-PeCDD	40321-76-4	0.253	JB	0.0285	4.93	1
11031	123478-HxCDD	39227-28-6	0.415	JB	0.0545	4.93	1
11031	123678-HxCDD	57653-85-7	0.960	JB	0.0559	4.93	1
11031	123789-HxCDD	19408-74-3	0.953	JB	0.0525	4.93	1
11031	1234678-HpCDD	35822-46-9	24.6	B	0.0689	4.93	1
11031	OCDD	3268-87-9	403	B	0.0866	9.86	1
11031	2378-TCDF	51207-31-9	0.232	J	0.0379	0.986	1
11031	12378-PeCDF	57117-41-6	0.133	JB	0.0210	4.93	1
11031	23478-PeCDF	57117-31-4	0.293	JB	0.0225	4.93	1
11031	123478-HxCDF	70648-26-9	0.342	JBQ	0.0298	4.93	1
11031	123678-HxCDF	57117-44-9	0.175	JB	0.0266	4.93	1
11031	123789-HxCDF	72918-21-9	0.262	JBQ	0.0317	4.93	1
11031	234678-HxCDF	60851-34-5	0.200	JB	0.0255	4.93	1
11031	1234678-HpCDF	67562-39-4	2.37	JB	0.0215	4.93	1
11031	1234789-HpCDF	55673-89-7	0.176	JBQ	0.0357	4.93	1
11031	OCDF	39001-02-0	6.23	JB	0.0359	9.86	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	54	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-155-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA6-SS-0.0-0.5

LLI Sample # SW 6348209
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:16

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-155 SDG#: DX113-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-155-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA6-SS-0.0-0.5

LLI Sample # SW 6348209
LLI Group # 1256902
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:16

Submitted: 07/19/2011 09:30
Reported: 08/12/2011 12:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-155 SDG#: DX113-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11208001	07/30/2011 21:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11208001	07/27/2011 11:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402B	07/25/2011 21:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256902
Reported: 08/12/11 at 12:14 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11206162402A	Sample number(s): 6348197-6348206								
Moisture Content by 160.3					100		80-120		
Batch number: 11206162402B	Sample number(s): 6348207-6348209								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11208001	Sample number(s): 6348197-6348209								
2378-TCDD	0.0142 U	0.0142	1.00	ng/kg	85		67-158		
12378-PeCDD	0.0291 J	0.0148	5.00	ng/kg	91		70-142		
123478-HxCDD	0.0394 J	0.0170	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0632 J	0.0176	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0739 J	0.0174	5.00	ng/kg	94		64-162		
1234678-HpCDD	0.905 J	0.0292	5.00	ng/kg	93		70-140		
OCDD	4.79 J	0.0221	10.0	ng/kg	95		78-144		
2378-TCDF	0.0119 U	0.0119	1.00	ng/kg	94		75-158		
2378-TCDF-Conf	0.0552 J	0.0223	1.00	ng/kg	94		75-158		
12378-PeCDF	0.0313 J	0.00810	5.00	ng/kg	91		80-134		
23478-PeCDF	0.0505 J	0.00860	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0405 J	0.0109	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0381 J	0.00930	5.00	ng/kg	95		84-130		
123789-HxCDF	0.0439 J	0.0100	5.00	ng/kg	94		78-130		
234678-HxCDF	0.0445 J	0.00780	5.00	ng/kg	95		70-156		
1234678-HpCDF	0.0836 J	0.00700	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.0469 J	0.0117	5.00	ng/kg	94		78-138		
OCDF	0.136 J	0.0253	10.0	ng/kg	96		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11206162402A	Sample number(s): 6348197-6348206					BKG: P348153			
Moisture Content by 160.3						1.2	1.2	0 (1)	20
Batch number: 11206162402B	Sample number(s): 6348207-6348209					BKG: P348162			
Moisture Content by 160.3						0.95	0.93	1 (1)	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256902
Reported: 08/12/11 at 12:14 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11208001	Sample number(s): 6348197-6348209 UNSPK: P345471								
2378-TCDD	85	85	67-158	1	25				
12378-PeCDD	89	87	70-142	4	25				
123478-HxCDD	92	92	70-164	1	25				
123678-HxCDD	87	87	76-134	1	25				
123789-HxCDD	89	89	64-162	1	25				
1234678-HpCDD	-195*	-124 (2)	70-140	30*	25				
OCDD	-2301 (2)	-1694 (2)	78-144	44*	25				
2378-TCDF	87	84	75-158	4	25				
2378-TCDF-Conf	87	84	75-158	4	25				
12378-PeCDF	93	91	80-134	4	25				
23478-PeCDF	91	89	68-160	4	25				
123478-HxCDF	95	92	72-134	4	25				
123678-HxCDF	94	92	84-130	4	25				
123789-HxCDF	94	92	78-130	3	25				
234678-HxCDF	92	93	70-156	0	25				
1234678-HpCDF	64*	69*	82-122	4	25				
1234789-HpCDF	91	90	78-138	3	25				
OCDF	51*	59*	63-170	7	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11208001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6348197	74	69	48	50	74	75
6348198	75	67	55	60	71	72
6348199	75	67	59	63	72	71
6348200	78	71	76	80	78	81
6348201	77	69	71	73	74	80
6348202	77	71	71	76	75	77
6348203	77	69	52	55	74	76
6348204	89	81	86	87	88	92
6348205	83	71	62	65	69	75
6348206	74	68	48	47	73	77
6348207	77	69	53	55	75	73
6348208	72	61	45	51	66	62
6348209	78	68	65	74	72	71
Blank	66	59	47	55	64	59
MS	75	68	63	67	73	75
MSD	75	68	51	54	72	75
OPR	80	71	66	78	78	74
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256902
Reported: 08/12/11 at 12:14 PM

Surrogate Quality Control

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6348197	57	71	66	74	77	76
6348198	69	64	58	75	78	74
6348199	70	61	48	73	78	74
6348200	79	72	63	77	82	81
6348201	77	70	64	75	78	79
6348202	79	69	61	77	82	78
6348203	60	67	58	75	72	70
6348204	85	82	70	86	93	89
6348205	77	69	67	79	85	84
6348206	52	66	56	72	75	68
6348207	64	62	51	76	81	78
6348208	62	53	45	71	66	62
6348209	83	62	54	76	81	79
Blank	72	54	48	69	73	72
MS	71	68	61	73	78	74
MSD	61	67	60	74	77	73
OPR	97	67	58	84	91	89
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6348197	79	79	74	67	69	
6348198	78	76	70	67	71	
6348199	78	74	64	68	71	
6348200	82	80	69	72	73	
6348201	80	78	72	69	70	
6348202	80	79	69	70	74	
6348203	79	76	66	69	72	
6348204	93	87	75	81	80	
6348205	84	88	85	74	73	
6348206	77	73	63		70	76
6348207	81	75	63	69	74	
6348208	77	74	65	62	72	
6348209	80	78	68	68	75	
Blank	74	75	67	56	66	63
MS	77	76	70	68	69	68
MSD	78	77	70	68	71	68
OPR	90	90	78	69	79	69
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013/1256902/6348197-209

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetrazin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCPs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other instructions and Notes
SL-127-SA6-SS-0.0-0.5	7/18/11	0942	SOIL	NONE	1-SS Sleeve			X	X																	
SL-127-SA6-SS-0.0-0.5	7/18/11	0942	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X	X	X	X	X						X	X	X	
SL-126-SA6-SS-0.0-0.5	7/18/11	0914	SOIL	NONE	1-SS Sleeve			X	X																	
SL-126-SA6-SS-0.0-0.5	7/18/11	0914	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X	X	X	X	X						X	X	X	
SL-133-SA6-SS-0.0-0.5	7/18/11	0755	SOIL	NONE	1-SS Sleeve			X	X																	
SL-133-SA6-SS-0.0-0.5	7/18/11	0755	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-134-SA6-SS-0.0-0.5	7/18/11	0829	SOIL	NONE	1-SS Sleeve			X	X																	
SL-134-SA6-SS-0.0-0.5	7/18/11	0829	SOIL	NONE	2-16 oz.jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-142-SA6-SS-0.0-0.5	7/18/11	1043	SOIL	NONE	1-SS Sleeve			X	X																	
SL-142-SA6-SS-0.0-0.5	7/18/11	1043	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-143-SA6-SS-0.0-0.5	7/18/11	1110	SOIL	NONE	1-SS Sleeve			X	X																	
SL-143-SA6-SS-0.0-0.5	7/18/11	1110	SOIL	NONE	2-16 oz.jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-145-SA6-SS-0.0-0.5	7/18/11	0933	SOIL	NONE	1-SS Sleeve			X	X																	
SL-145-SA6-SS-0.0-0.5	7/18/11	0933	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-146-SA6-SS-0.0-0.5	7/18/11	1023	SOIL	NONE	1-SS Sleeve			X	X																	
SL-146-SA6-SS-0.0-0.5	7/18/11	1023	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-147-SA6-SS-0.0-0.5	7/18/11	1025	SOIL	NONE	1-SS Sleeve			X	X																	
SL-147-SA6-SS-0.0-0.5	7/18/11	1025	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-148-SA6-SS-0.0-0.5	7/18/11	1140	SOIL	NONE	1-SS Sleeve			X	X																	
SL-148-SA6-SS-0.0-0.5	7/18/11	1140	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-150-SA6-SS-0.0-0.5	7/18/11	1200	SOIL	NONE	1-SS Sleeve			X	X																	
SL-150-SA6-SS-0.0-0.5	7/18/11	1200	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-152-SA6-SS-0.0-0.5	7/18/11	1508	SOIL	NONE	1-SS Sleeve			X	X																	
SL-152-SA6-SS-0.0-0.5	7/18/11	1508	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-155-SA6-SS-0.0-0.5	7/18/11	1416	SOIL	NONE	1-SS Sleeve			X	X																	
SL-155-SA6-SS-0.0-0.5	7/18/11	1416	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-178-SA6-SS-0.0-0.5	7/18/11	1434	SOIL	NONE	1-SS Sleeve			X	X																	
SL-178-SA6-SS-0.0-0.5	7/18/11	1434	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-182-SA6-SS-0.0-0.5	7/18/11	1445	SOIL	NONE	1-SS Sleeve			X	X																	
SL-182-SA6-SS-0.0-0.5	7/18/11	1445	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-183-SA6-SS-0.0-0.5	7/18/11	1520	SOIL	NONE	1-SS Sleeve			X	X																	
SL-183-SA6-SS-0.0-0.5	7/18/11	1520	SOIL	NONE	1-16 oz.jars	X	X			X	X	X	X		X	X										
SL-184-SA6-SS-0.0-0.5	7/18/11	1527	SOIL	NONE	1-SS Sleeve			X	X																	
SL-184-SA6-SS-0.0-0.5	7/18/11	1527	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-293-SA6-SS-0.0-0.5	7/18/11	0835	SOIL	NONE	1-SS Sleeve			X	X																	
SL-293-SA6-SS-0.0-0.5	7/18/11	0835	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	07/18/2011 / 1600	LI 7/19/11 930	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3340 9777,9766,9755	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 08, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/19/2011
Group Number: 1256903
SDG: DX114
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-176-SA6-SS-0.0-0.5 Soil	6348210
SL-182-SA6-SS-0.0-0.5 Soil	6348211
SL-183-SA6-SS-0.0-0.5 Soil	6348212
SL-184-SA6-SS-0.0-0.5 Soil	6348213
SL-293-SA6-SS-0.0-0.5 Soil	6348214

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-176-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA6-SS-0.0-0.5

LLI Sample # SW 6348210
LLI Group # 1256903
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:34

Submitted: 07/19/2011 09:30
Reported: 08/08/2011 10:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-176 SDG#: DX114-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.92	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-176-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA6-SS-0.0-0.5

LLI Sample # SW 6348210
LLI Group # 1256903
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:34

Submitted: 07/19/2011 09:30
Reported: 08/08/2011 10:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-176 SDG#: DX114-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0366	JQ	0.0133	0.962	1
11031	12378-PeCDD	40321-76-4	0.223	JB	0.0280	4.81	1
11031	123478-HxCDD	39227-28-6	0.247	JB	0.0514	4.81	1
11031	123678-HxCDD	57653-85-7	0.819	JB	0.0535	4.81	1
11031	123789-HxCDD	19408-74-3	0.723	JB	0.0505	4.81	1
11031	1234678-HpCDD	35822-46-9	18.8	B	0.0643	4.81	1
11031	OCDD	3268-87-9	289	B	0.0434	9.62	1
11031	2378-TCDF	51207-31-9	0.207	JB	0.0446	0.962	1
11031	12378-PeCDF	57117-41-6	0.396	JB	0.0312	4.81	1
11031	23478-PeCDF	57117-31-4	0.380	JB	0.0316	4.81	1
11031	123478-HxCDF	70648-26-9	0.460	JB	0.0376	4.81	1
11031	123678-HxCDF	57117-44-9	0.223	JBQ	0.0357	4.81	1
11031	123789-HxCDF	72918-21-9	0.135	JBQ	0.0438	4.81	1
11031	234678-HxCDF	60851-34-5	0.268	JB	0.0367	4.81	1
11031	1234678-HpCDF	67562-39-4	2.41	JB	0.0235	4.81	1
11031	1234789-HpCDF	55673-89-7	0.191	JB	0.0386	4.81	1
11031	OCDF	39001-02-0	5.26	JB	0.0306	9.62	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	53	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-176-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA6-SS-0.0-0.5

LLI Sample # SW 6348210
LLI Group # 1256903
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:34

Submitted: 07/19/2011 09:30
Reported: 08/08/2011 10:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-176 SDG#: DX114-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-176-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA6-SS-0.0-0.5

LLI Sample # SW 6348210
LLI Group # 1256903
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:34

Submitted: 07/19/2011 09:30
Reported: 08/08/2011 10:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-176 SDG#: DX114-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11209001	07/31/2011 16:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11209001	07/28/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402B	07/25/2011 21:01	Scott W Freisher	1

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Analysis Report

Sample Description: SL-182-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA6-SS-0.0-0.5

LLI Sample # SW 6348211
LLI Group # 1256903
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:45

Submitted: 07/19/2011 09:30
Reported: 08/08/2011 10:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-182 SDG#: DX114-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.60	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-182-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA6-SS-0.0-0.5

LLI Sample # SW 6348211
LLI Group # 1256903
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:45

Submitted: 07/19/2011 09:30
Reported: 08/08/2011 10:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-182 SDG#: DX114-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0483	JQ	0.0226	0.990	1
11031	12378-PeCDD	40321-76-4	0.635	JB	0.0384	4.95	1
11031	123478-HxCDD	39227-28-6	1.08	JB	0.0354	4.95	1
11031	123678-HxCDD	57653-85-7	3.13	JB	0.0354	4.95	1
11031	123789-HxCDD	19408-74-3	2.37	JB	0.0331	4.95	1
11031	1234678-HpCDD	35822-46-9	152	B	0.0940	4.95	1
11031	OCDD	3268-87-9	2,650	B	0.104	9.90	1
11031	2378-TCDF	51207-31-9	0.107	JBQ	0.0325	0.990	1
11031	12378-PeCDF	57117-41-6	0.246	JB	0.0201	4.95	1
11031	23478-PeCDF	57117-31-4	0.331	JB	0.0187	4.95	1
11031	123478-HxCDF	70648-26-9	0.595	JB	0.0241	4.95	1
11031	123678-HxCDF	57117-44-9	0.457	JB	0.0234	4.95	1
11031	123789-HxCDF	72918-21-9	0.177	JB	0.0268	4.95	1
11031	234678-HxCDF	60851-34-5	0.483	JB	0.0233	4.95	1
11031	1234678-HpCDF	67562-39-4	5.72	B	0.0271	4.95	1
11031	1234789-HpCDF	55673-89-7	0.884	JB	0.0358	4.95	1
11031	OCDF	39001-02-0	14.9	B	0.0292	9.90	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-182-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA6-SS-0.0-0.5

LLI Sample # SW 6348211
LLI Group # 1256903
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:45

Submitted: 07/19/2011 09:30
Reported: 08/08/2011 10:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-182 SDG#: DX114-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-182-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA6-SS-0.0-0.5

LLI Sample # SW 6348211
LLI Group # 1256903
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 14:45

Submitted: 07/19/2011 09:30
Reported: 08/08/2011 10:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-182 SDG#: DX114-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11209001	08/02/2011 23:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11209001	07/28/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402B	07/25/2011 21:01	Scott W Freisher	1

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Analysis Report

Sample Description: SL-183-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA6-SS-0.0-0.5

LLI Sample # SW 6348212
LLI Group # 1256903
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:20

Submitted: 07/19/2011 09:30
Reported: 08/08/2011 10:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-183 SDG#: DX114-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.66	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-183-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA6-SS-0.0-0.5

LLI Sample # SW 6348212
LLI Group # 1256903
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:20

Submitted: 07/19/2011 09:30
Reported: 08/08/2011 10:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

X-183 SDG#: DX114-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0521	JQ	0.0192	0.985	1
11031	12378-PeCDD	40321-76-4	0.232	JBQ	0.0265	4.92	1
11031	123478-HxCDD	39227-28-6	0.380	JB	0.0355	4.92	1
11031	123678-HxCDD	57653-85-7	0.932	JB	0.0360	4.92	1
11031	123789-HxCDD	19408-74-3	0.802	JB	0.0356	4.92	1
11031	1234678-HpCDD	35822-46-9	28.2	B	0.0575	4.92	1
11031	OCDD	3268-87-9	406	B	0.0551	9.85	1
11031	2378-TCDF	51207-31-9	0.0433	JBQ	0.0214	0.985	1
11031	12378-PeCDF	57117-41-6	0.107	JBQ	0.0139	4.92	1
11031	23478-PeCDF	57117-31-4	0.167	JB	0.0136	4.92	1
11031	123478-HxCDF	70648-26-9	0.247	JB	0.0204	4.92	1
11031	123678-HxCDF	57117-44-9	0.201	JB	0.0183	4.92	1
11031	123789-HxCDF	72918-21-9	0.0846	JB	0.0211	4.92	1
11031	234678-HxCDF	60851-34-5	0.243	JB	0.0189	4.92	1
11031	1234678-HpCDF	67562-39-4	3.90	JB	0.0187	4.92	1
11031	1234789-HpCDF	55673-89-7	0.305	JB	0.0310	4.92	1
11031	OCDF	39001-02-0	9.28	JB	0.0314	9.85	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA6-SS-0.0-0.5

LLI Sample # SW 6348212
LLI Group # 1256903
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:20

Submitted: 07/19/2011 09:30
Reported: 08/08/2011 10:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-183 SDG#: DX114-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-183-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA6-SS-0.0-0.5

LLI Sample # SW 6348212
LLI Group # 1256903
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:20

Submitted: 07/19/2011 09:30
Reported: 08/08/2011 10:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-183 SDG#: DX114-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11209001	08/03/2011 05:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11209001	07/28/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402B	07/25/2011 21:01	Scott W Freisher	1

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Analysis Report

Sample Description: SL-184-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA6-SS-0.0-0.5

LLI Sample # SW 6348213
LLI Group # 1256903
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:27

Submitted: 07/19/2011 09:30
Reported: 08/08/2011 10:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-184 SDG#: DX114-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.81	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-184-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA6-SS-0.0-0.5

LLI Sample # SW 6348213
LLI Group # 1256903
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:27

Submitted: 07/19/2011 09:30
Reported: 08/08/2011 10:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-184 SDG#: DX114-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0873	JQ	0.0235	0.961	1
11031	12378-PeCDD	40321-76-4	0.461	JB	0.0404	4.81	1
11031	123478-HxCDD	39227-28-6	0.792	JB	0.0357	4.81	1
11031	123678-HxCDD	57653-85-7	2.59	JB	0.0351	4.81	1
11031	123789-HxCDD	19408-74-3	1.68	JB	0.0348	4.81	1
11031	1234678-HpCDD	35822-46-9	71.4	B	0.0586	4.81	1
11031	OCDD	3268-87-9	680	B	0.0554	9.61	1
11031	2378-TCDF	51207-31-9	0.598	JB	0.0801	0.961	1
11031	12378-PeCDF	57117-41-6	0.728	JB	0.0359	4.81	1
11031	23478-PeCDF	57117-31-4	0.955	JB	0.0372	4.81	1
11031	123478-HxCDF	70648-26-9	1.78	JB	0.0403	4.81	1
11031	123678-HxCDF	57117-44-9	0.711	JB	0.0361	4.81	1
11031	123789-HxCDF	72918-21-9	0.178	JB	0.0400	4.81	1
11031	234678-HxCDF	60851-34-5	0.904	JB	0.0352	4.81	1
11031	1234678-HpCDF	67562-39-4	20.9	B	0.0319	4.81	1
11031	1234789-HpCDF	55673-89-7	1.01	JB	0.0508	4.81	1
11031	OCDF	39001-02-0	56.2	B	0.0408	9.61	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	94	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	71	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-184-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA6-SS-0.0-0.5

LLI Sample # SW 6348213
LLI Group # 1256903
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:27

Submitted: 07/19/2011 09:30
Reported: 08/08/2011 10:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-184 SDG#: DX114-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-184-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA6-SS-0.0-0.5

LLI Sample # SW 6348213
LLI Group # 1256903
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 15:27

Submitted: 07/19/2011 09:30
Reported: 08/08/2011 10:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-184 SDG#: DX114-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11209001	08/03/2011 06:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11209001	07/28/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402B	07/25/2011 21:01	Scott W Freisher	1

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Analysis Report

Sample Description: SL-293-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-293-SA6-SS-0.0-0.5

LLI Sample # SW 6348214
LLI Group # 1256903
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 08:35

Submitted: 07/19/2011 09:30
Reported: 08/08/2011 10:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-293 SDG#: DX114-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-293-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-293-SA6-SS-0.0-0.5

LLI Sample # SW 6348214
LLI Group # 1256903
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 08:35

Submitted: 07/19/2011 09:30
Reported: 08/08/2011 10:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-293 SDG#: DX114-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.102	JQ	0.0248	0.985	1
11031	12378-PeCDD	40321-76-4	0.361	JB	0.0261	4.93	1
11031	123478-HxCDD	39227-28-6	0.142	JB	0.0340	4.93	1
11031	123678-HxCDD	57653-85-7	0.528	JB	0.0336	4.93	1
11031	123789-HxCDD	19408-74-3	0.383	JB	0.0334	4.93	1
11031	1234678-HpCDD	35822-46-9	11.4	B	0.0411	4.93	1
11031	OCDD	3268-87-9	109	B	0.0378	9.85	1
11031	2378-TCDF	51207-31-9	0.0948	JB	0.0442	0.985	1
11031	12378-PeCDF	57117-41-6	0.315	JB	0.0239	4.93	1
11031	23478-PeCDF	57117-31-4	0.240	JB	0.0239	4.93	1
11031	123478-HxCDF	70648-26-9	0.917	JB	0.0308	4.93	1
11031	123678-HxCDF	57117-44-9	0.219	JBQ	0.0270	4.93	1
11031	123789-HxCDF	72918-21-9	0.108	JBQ	0.0338	4.93	1
11031	234678-HxCDF	60851-34-5	0.234	JB	0.0277	4.93	1
11031	1234678-HpCDF	67562-39-4	2.25	JB	0.0168	4.93	1
11031	1234789-HpCDF	55673-89-7	0.230	JB	0.0279	4.93	1
11031	OCDF	39001-02-0	3.58	JB	0.0317	9.85	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	60	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-293-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-293-SA6-SS-0.0-0.5

LLI Sample # SW 6348214
LLI Group # 1256903
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 08:35

Submitted: 07/19/2011 09:30
Reported: 08/08/2011 10:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-293 SDG#: DX114-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-293-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-293-SA6-SS-0.0-0.5

LLI Sample # SW 6348214
LLI Group # 1256903
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/18/2011 08:35

Submitted: 07/19/2011 09:30
Reported: 08/08/2011 10:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-293 SDG#: DX114-19*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11209001	08/03/2011 07:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11209001	07/28/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162402B	07/25/2011 21:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256903
Reported: 08/08/11 at 10:47 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11206162402B	Sample number(s): 6348210-6348214								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11209001	Sample number(s): 6348210-6348214								
2378-TCDD	0.0126 U	0.0126	1.00	ng/kg	85		67-158		
12378-PeCDD	0.0309 J	0.0125	5.00	ng/kg	90		70-142		
123478-HxCDD	0.0135 J	0.00950	5.00	ng/kg	93		70-164		
123678-HxCDD	0.0232 J	0.00990	5.00	ng/kg	91		76-134		
123789-HxCDD	0.0330 J	0.00900	5.00	ng/kg	92		64-162		
1234678-HpCDD	0.228 J	0.0161	5.00	ng/kg	91		70-140		
OCDD	0.485 J	0.0227	10.0	ng/kg	92		78-144		
2378-TCDF	0.0129 J	0.0123	1.00	ng/kg	99		75-158		
12378-PeCDF	0.0241 J	0.00660	5.00	ng/kg	90		80-134		
23478-PeCDF	0.0487 J	0.00720	5.00	ng/kg	92		68-160		
123478-HxCDF	0.0396 J	0.00940	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0322 J	0.00750	5.00	ng/kg	94		84-130		
123789-HxCDF	0.0727 J	0.0109	5.00	ng/kg	95		78-130		
234678-HxCDF	0.0357 J	0.00760	5.00	ng/kg	94		70-156		
1234678-HpCDF	0.0803 J	0.00590	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0699 J	0.0114	5.00	ng/kg	94		78-138		
OCDF	0.177 J	0.0224	10.0	ng/kg	95		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11206162402B	Sample number(s): 6348210-6348214 BKG: P348162								
Moisture Content by 160.3						0.95	0.93	1 (1)	20
Batch number: 11209001	Sample number(s): 6348210-6348214 UNSPK: P347003								
2378-TCDD	90	81	67-158	13	25				
12378-PeCDD	91	87	70-142	7	25				
123478-HxCDD	91	87	70-164	6	25				
123678-HxCDD	87	85	76-134	3	25				
123789-HxCDD	87	85	64-162	4	25				
1234678-HpCDD	-11*	-19*	70-140	5	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256903
Reported: 08/08/11 at 10:47 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
OCDD	-682 (2)	-721 (2)	78-144	7	25				
2378-TCDF	84	83	75-158	2	25				
12378-PeCDF	83	85	80-134	0	25				
23478-PeCDF	82	85	68-160	1	25				
123478-HxCDF	83	89	72-134	5	25				
123678-HxCDF	82*	90	84-130	8	25				
123789-HxCDF	84	91	78-130	6	25				
234678-HxCDF	84	91	70-156	6	25				
1234678-HpCDF	73*	77*	82-122	3	25				
1234789-HpCDF	85	89	78-138	4	25				
OCDF	75	82	63-170	6	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11209001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6348210	83	68	73	79	75	74
6348211	78	73	70	71	69	72
6348212	74	71	67	75	70	75
6348213	81	77	66	74	74	79
6348214	72	69	64	72	67	65
Blank	64	53	52	63	60	51
MS	77	67	60	66	60	57
MSD	79	62	66	71	67	64
OPR	80	70	65	79	76	70
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6348210	82	63	53	80	87	86
6348211	78	70	70	78	79	80
6348212	84	65	66	73	78	80
6348213	92	72	71	82	83	85
6348214	83	60	60	72	76	78
Blank	80	48	43	68	75	72
MS	77	56	54	76	74	76
MSD	76	56	44	73	80	78
OPR	98	62	54	85	90	92
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1256903
Reported: 08/08/11 at 10:47 AM

Surrogate Quality Control

6348210	87	81	67	70	73
6348211	80	86	88	75	75
6348212	78	80	83	72	76
6348213	84	91	94	78	86
6348214	76	78	78	69	76
Blank	76	74	65	50	61
MS	76	77	76	70	74
MSD	80	73	59	66	68
OPR	92	90	77	65	78
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013/1256903/6348210-14

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA8) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010B/7060A/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	SECONDARY FOR ALL LOCATIONS: **TPH-EPH EPA 8015B Mod:	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-127-SA8-SS-0.0-0.5	7/18/11	0942	SOIL	NONE	1-SS Sleeve			X	X																	
SL-127-SA8-SS-0.0-0.5	7/18/11	0942	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X	X	X	X	X						X	X	X	
SL-128-SA8-SS-0.0-0.5	7/18/11	0914	SOIL	NONE	1-SS Sleeve			X	X																	
SL-128-SA8-SS-0.0-0.5	7/18/11	0914	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-133-SA8-SS-0.0-0.5	7/18/11	0755	SOIL	NONE	1-SS Sleeve			X	X																	
SL-133-SA8-SS-0.0-0.5	7/18/11	0755	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-124-SA8-SS-0.0-0.5	7/18/11	0929	SOIL	NONE	1-SS Sleeve			X	X																	
SL-124-SA8-SS-0.0-0.5	7/18/11	0929	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-142-SA8-SS-0.0-0.5	7/18/11	1043	SOIL	NONE	1-SS Sleeve			X	X																	
SL-142-SA8-SS-0.0-0.5	7/18/11	1043	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-140-SA8-SS-0.0-0.5	7/18/11	1110	SOIL	NONE	1-SS Sleeve			X	X																	
SL-140-SA8-SS-0.0-0.5	7/18/11	1110	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-145-SA8-SS-0.0-0.5	7/18/11	0933	SOIL	NONE	1-SS Sleeve			X	X																	
SL-145-SA8-SS-0.0-0.5	7/18/11	0933	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-146-SA8-SS-0.0-0.5	7/18/11	1023	SOIL	NONE	1-SS Sleeve			X	X																	
SL-146-SA8-SS-0.0-0.5	7/18/11	1023	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X	X						X	X	X	
SL-147-SA8-SS-0.0-0.5	7/18/11	1025	SOIL	NONE	1-SS Sleeve			X	X																	
SL-147-SA8-SS-0.0-0.5	7/18/11	1025	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-148-SA8-SS-0.0-0.5	7/18/11	1140	SOIL	NONE	1-SS Sleeve			X	X																	
SL-148-SA8-SS-0.0-0.5	7/18/11	1140	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-150-SA8-SS-0.0-0.5	7/18/11	1200	SOIL	NONE	1-SS Sleeve			X	X																	
SL-150-SA8-SS-0.0-0.5	7/18/11	1200	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-152-SA8-SS-0.0-0.5	7/18/11	1508	SOIL	NONE	1-SS Sleeve			X	X																	
SL-152-SA8-SS-0.0-0.5	7/18/11	1508	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-155-SA8-SS-0.0-0.5	7/18/11	1416	SOIL	NONE	1-SS Sleeve			X	X																	
SL-155-SA8-SS-0.0-0.5	7/18/11	1416	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-176-SA8-SS-0.0-0.5	7/18/11	1440	SOIL	NONE	1-SS Sleeve			X	X																	
SL-176-SA8-SS-0.0-0.5	7/18/11	1440	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-182-SA8-SS-0.0-0.5	7/18/11	1445	SOIL	NONE	1-SS Sleeve			X	X																	
SL-182-SA8-SS-0.0-0.5	7/18/11	1445	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-180-SA8-SS-0.0-0.5	7/18/11	1520	SOIL	NONE	1-SS Sleeve			X	X																	
SL-180-SA8-SS-0.0-0.5	7/18/11	1520	SOIL	NONE	1-16 oz.jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-184-SA8-SS-0.0-0.5	7/18/11	1527	SOIL	NONE	1-SS Sleeve			X	X																	
SL-184-SA8-SS-0.0-0.5	7/18/11	1527	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-260-SA8-SS-0.0-0.5	7/18/11	0835	SOIL	NONE	1-SS Sleeve			X	X																	
SL-260-SA8-SS-0.0-0.5	7/18/11	0835	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X						X	X	X	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	07/18/2011 / 1800	7/19/11 980	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3340 9777,9766,9755	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

September 08, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/20/2011
Group Number: 1257182
SDG: DE203
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-151-SA6-SS-0.0-0.5 Soil	6349710
SL-154-SA6-SS-0.0-0.5 Soil	6349711
SL-166-SA6-SS-0.0-0.5 Soil	6349712
SL-168-SA6-SS-0.0-0.5 Soil	6349713
SL-169-SA6-SS-0.0-0.5 Soil	6349714
SL-171-SA6-SS-0.0-0.5 Soil	6349715
SL-172-SA6-SS-0.0-0.5 Soil	6349716
SL-174-SA6-SS-0.0-0.5 Soil	6349717
SL-178-SA6-SS-0.0-0.5 Soil	6349718
SL-185-SA6-SS-0.0-0.5 Soil	6349719
SL-301-SA6-SS-0.0-0.5 Soil	6349720
SL-084-SA6-SB-4.0-5.0 Soil	6349721
SL-084-SA6-SB-9.0-10.0 Soil	6349722
SL-085-SA6-SB-4.0-5.0 Soil	6349723
SL-085-SA6-SB-7.0-8.0 Soil	6349724
TB-071911 Water	6349725
EB-SA6-SS-071911 Water	6349726

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

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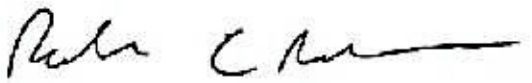
Analysis Report

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Robin C. Runkle
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-151-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA6-SS-0.0-0.5

LLI Sample # SW 6349710
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:36

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0301 SDG#: DE203-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-151-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA6-SS-0.0-0.5

LLI Sample # SW 6349710
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:36

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0301 SDG#: DE203-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	6.7	U	6.7	17		1
10138	Acenaphthylene	208-96-8	3.4	U	3.4	17		1
10138	Anthracene	120-12-7	6.1	J	3.4	17		1
10138	Benzo(a)anthracene	56-55-3	34		6.7	17		1
10138	Benzo(a)pyrene	50-32-8	25		6.7	17		1
10138	Benzo(b)fluoranthene	205-99-2	44		6.7	17		1
10138	Benzo(g,h,i)perylene	191-24-2	18		6.7	17		1
10138	Benzo(k)fluoranthene	207-08-9	15	J	6.7	17		1
10138	Di-n-butylphthalate	84-74-2	68	J	60	180		1
10138	Chrysene	218-01-9	36		3.4	17		1
10138	Dibenz(a,h)anthracene	53-70-3	6.7	U	6.7	17		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	64	J	60	180		1
10138	Fluoranthene	206-44-0	65		6.7	17		1
10138	Fluorene	86-73-7	6.7	U	6.7	17		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	14	J	6.7	17		1
10138	1-Methylnaphthalene	90-12-0	6.7	U	6.7	17		1
10138	2-Methylnaphthalene	91-57-6	6.7	U	6.7	17		1
10138	Naphthalene	91-20-3	6.7	U	6.7	17		1
10138	N-Nitrosodimethylamine	62-75-9	6.7	U	6.7	17		1
10138	Phenanthrene	85-01-8	32		6.7	17		1
10138	Pyrene	129-00-0	47		6.7	17		1
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate 11 ug/kg bis(2-ethylhexyl)phthalate 10 ug/kg These blank values were not subtracted from the analytical results.							
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	0.83	U	0.83	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-151-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA6-SS-0.0-0.5

LLI Sample # SW 6349710
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:36

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0301 SDG#: DE203-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.14	U	0.14	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised for 2,4,5-T and 2,4-DB due to interference from the sample matrix.

Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.0		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	2.4	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.16	U	0.16	0.34		1
01363	p,p-DDT	50-29-3	1.2		0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.69	U	0.69	0.69		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.18	J	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.053	U	0.053	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

The TCX surrogate recovery is outside the lower QC limit for the Laboratory Control Spike. Since the analyte recoveries are within the QC limits, the data is reported.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	16		1.0	3.3		1

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Sample Description: SL-151-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA6-SS-0.0-0.5

LLI Sample # SW 6349710
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:36

Submitted: 07/20/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0301 SDG#: DE203-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	28		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,000		5.99	19.8		1
07914	Boron	7440-42-8	4.08	J	0.356	4.95		1
01650	Calcium	7440-70-2	2,080		2.48	19.8		1
01654	Iron	7439-89-6	17,300		2.58	19.8		1
01656	Lithium	7439-93-2	19.8		0.61	2.0		1
01657	Magnesium	7439-95-4	3,900		0.436	9.90		1
06958	Manganese	7439-96-5	299		0.0356	0.495		1
10145	Phosphorus	7723-14-0	437		0.347	9.90		1
01662	Potassium	7440-09-7	3,590		11.2	49.5		1
01667	Sodium	7440-23-5	52.9	J	5.89	99.0		1
07968	Strontium	7440-24-6	16.8		0.0248	0.495		1
06969	Tin	7440-31-5	2.96	J	0.317	9.90		1
06970	Titanium	7440-32-6	944		0.0703	0.990		1
10146	Zirconium	7440-67-7	2.97	J	0.455	4.95		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.124	J	0.0733	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.75		0.0792	0.396		2
06126	Barium	7440-39-3	109		0.105	0.396		2
06127	Beryllium	7440-41-7	0.553		0.0158	0.0990		2
06128	Cadmium	7440-43-9	0.355		0.0436	0.0990		2
06131	Chromium	7440-47-3	18.0		0.119	0.396		2
06132	Cobalt	7440-48-4	5.77		0.0198	0.0990		2
06133	Copper	7440-50-8	12.4		0.0792	0.396		2
06135	Lead	7439-92-1	15.5		0.0101	0.198		2
06138	Molybdenum	7439-98-7	0.689		0.0495	0.0990		2
06139	Nickel	7440-02-0	13.3		0.0990	0.396		2
06141	Selenium	7782-49-2	0.122	J	0.0574	0.396		2
06142	Silver	7440-22-4	0.0503	J	0.0141	0.0990		2
06145	Thallium	7440-28-0	0.256		0.0297	0.0990		2
06148	Vanadium	7440-62-2	32.1		0.0218	0.0990		2
06149	Zinc	7440-66-6	124		0.555	2.97		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.107		0.0070	0.100		1

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SSFL Area IV Collocated Soil Sampling
SL-151-SA6-SS-0.0-0.5

LLI Sample # SW 6349710
LLI Group # 1257182
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Collected: 07/19/2011 09:36

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E0301 SDG#: DE203-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.80	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.2		0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.70		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.99		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11209SLC026	08/10/2011 23:14	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11209SLB026	08/02/2011 04:07	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11209SLB026	07/29/2011 11:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11209SLC026	07/29/2011 06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090026A	08/03/2011 07:22	Anita M Dale	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112130022A	08/03/2011 20:31	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100006A	08/20/2011 19:00	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112100003A	08/03/2011 04:24	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100006A	07/29/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112100003A	07/29/2011 14:00	Wanda F Oswald	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090026A	07/28/2011 20:30	Elaine F Stoltzfus	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-151-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA6-SS-0.0-0.5

LLI Sample # SW 6349710
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:36

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0301 SDG#: DE203-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112130022A	08/02/2011 10:45	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112015708003	07/28/2011 22:36	John P Hook	1
07914	Boron	SW-846 6010B	1	112015708003	07/28/2011 22:36	John P Hook	1
01650	Calcium	SW-846 6010B	1	112015708003	07/28/2011 22:36	John P Hook	1
01654	Iron	SW-846 6010B	1	112015708003	07/28/2011 22:36	John P Hook	1
01656	Lithium	SW-846 6010B	1	112015708003	07/28/2011 22:36	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112015708003	07/28/2011 22:36	John P Hook	1
06958	Manganese	SW-846 6010B	1	112015708003	07/28/2011 22:36	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112015708003	07/28/2011 22:36	John P Hook	1
01662	Potassium	SW-846 6010B	1	112015708003	07/28/2011 22:36	John P Hook	1
01667	Sodium	SW-846 6010B	1	112015708003	07/28/2011 22:36	John P Hook	1
07968	Strontium	SW-846 6010B	1	112015708003	07/28/2011 22:36	John P Hook	1
06969	Tin	SW-846 6010B	1	112015708003	07/28/2011 22:36	John P Hook	1
06970	Titanium	SW-846 6010B	1	112015708003	07/28/2011 22:36	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112015708003	07/28/2011 22:36	John P Hook	1
06124	Antimony	SW-846 6020	1	112011026004A	07/27/2011 16:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112011026004A	07/27/2011 16:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112011026004D	07/27/2011 16:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112011026004A	07/27/2011 16:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112011026004A	07/27/2011 16:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112011026004A	07/27/2011 16:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112011026004A	07/27/2011 16:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112011026004A	07/27/2011 16:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112011026004A	07/27/2011 16:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112011026004C	07/27/2011 16:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112011026004A	07/27/2011 16:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112011026004B	07/27/2011 22:39	David K Beck	2
06142	Silver	SW-846 6020	1	112011026004A	07/27/2011 16:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112011026004A	07/27/2011 16:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112011026004A	07/27/2011 16:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112011026004A	07/27/2011 16:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112015711003	07/21/2011 09:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112015708003	07/20/2011 21:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112011026004	07/20/2011 21:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112015711003	07/21/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209621201A	07/31/2011 06:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209495201A	07/30/2011 14:42	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243201A	08/03/2011 17:55	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209621201A	07/28/2011 08:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209495201A	07/28/2011 22:00	James S Mathiot	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-151-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA6-SS-0.0-0.5

LLI Sample # SW 6349710
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:36

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0301 SDG#: DE203-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039401A	08/01/2011 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243201A	08/02/2011 09:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401A	07/26/2011 20:29	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-154-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA6-SS-0.0-0.5

LLI Sample # SW 6349711
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 10:08

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0302 SDG#: DE203-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1

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Sample Description: SL-154-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA6-SS-0.0-0.5

LLI Sample # SW 6349711
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 10:08

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0302 SDG#: DE203-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.42	J	0.34	1.7		1
10138	Anthracene	120-12-7	1.1	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	7.7		0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	7.3		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	15		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	4.3		0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	4.9		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	9.9		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	1.2	J	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	17	J	6.1	18		1
10138	Fluoranthene	206-44-0	10		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.9		0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.90	J	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	2.2		0.68	1.7		1
10138	Pyrene	129-00-0	9.0		0.68	1.7		1
	The following compounds were detected in the method blank at the respective concentrations of: bis(2-ethylhexyl)phthalate 10 ug/kg These blank values were not subtracted from the analytical results.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	4.4		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.19	U	0.19	0.19		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-154-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA6-SS-0.0-0.5

LLI Sample # SW 6349711
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 10:08

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0302 SDG#: DE203-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised for 2,4,5-T due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	2.9	J	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.43		0.067	0.35		1
01363	p,p-DDT	50-29-3	1.4	U	1.4	1.4		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.088	U	0.088	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.28	J	0.067	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.044	J	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.13	U	0.13	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	The TCX surrogate recovery is outside the lower QC limit for the Laboratory Control Spike. Since the analyte recoveries are within the QC limits, the data is reported. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	3.2	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	3.6		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-154-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA6-SS-0.0-0.5

LLI Sample # SW 6349711
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 10:08

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0302 SDG#: DE203-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,000		6.05	20.0		1
07914	Boron	7440-42-8	4.02	J	0.360	5.00		1
01650	Calcium	7440-70-2	2,790		2.50	20.0		1
01654	Iron	7439-89-6	18,900		2.61	20.0		1
01656	Lithium	7439-93-2	16.7		0.62	2.0		1
01657	Magnesium	7439-95-4	3,770		0.440	9.99		1
06958	Manganese	7439-96-5	250		0.0360	0.500		1
10145	Phosphorus	7723-14-0	327		0.350	9.99		1
01662	Potassium	7440-09-7	2,860		11.3	50.0		1
01667	Sodium	7440-23-5	79.0	J	5.95	99.9		1
07968	Strontium	7440-24-6	22.5		0.0250	0.500		1
06969	Tin	7440-31-5	3.08	J	0.320	9.99		1
06970	Titanium	7440-32-6	920		0.0710	0.999		1
10146	Zirconium	7440-67-7	2.59	J	0.460	5.00		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.167	J	0.0725	0.196		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.15		0.0784	0.392		2
06126	Barium	7440-39-3	146		0.104	0.392		2
06127	Beryllium	7440-41-7	0.855		0.0157	0.0980		2
06128	Cadmium	7440-43-9	0.254		0.0431	0.0980		2
06131	Chromium	7440-47-3	23.9		0.118	0.392		2
06132	Cobalt	7440-48-4	8.52		0.0196	0.0980		2
06133	Copper	7440-50-8	14.7		0.0784	0.392		2
06135	Lead	7439-92-1	13.4		0.010	0.196		2
06138	Molybdenum	7439-98-7	0.822		0.0490	0.0980		2
06139	Nickel	7440-02-0	16.5		0.0980	0.392		2
06141	Selenium	7782-49-2	0.114	J	0.0568	0.392		2
06142	Silver	7440-22-4	0.0952	J	0.0139	0.0980		2
06145	Thallium	7440-28-0	0.337		0.0294	0.0980		2
06148	Vanadium	7440-62-2	46.2		0.0216	0.0980		2
06149	Zinc	7440-66-6	133		0.549	2.94		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0691	J	0.0069	0.0980		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.80	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.86	J	0.20	1.0		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-154-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA6-SS-0.0-0.5

LLI Sample # SW 6349711
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 10:08

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0302 SDG#: DE203-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.56	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	1.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11209SLC026	08/11/2011 00:29	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11209SLB026	08/02/2011 06:14	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11209SLB026	07/29/2011 11:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11209SLC026	07/29/2011 06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090026A	08/03/2011 08:44	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100006A	08/20/2011 19:45	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112100003A	08/03/2011 01:37	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100006A	07/29/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112100003A	07/29/2011 14:00	Wanda F Oswald	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090026A	07/28/2011 20:30	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112015708003	07/28/2011 22:40	John P Hook	1
07914	Boron	SW-846 6010B	1	112015708003	07/28/2011 22:40	John P Hook	1
01650	Calcium	SW-846 6010B	1	112015708003	07/28/2011 22:40	John P Hook	1
01654	Iron	SW-846 6010B	1	112015708003	07/28/2011 22:40	John P Hook	1
01656	Lithium	SW-846 6010B	1	112015708003	07/28/2011 22:40	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112015708003	07/28/2011 22:40	John P Hook	1
06958	Manganese	SW-846 6010B	1	112015708003	07/28/2011 22:40	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112015708003	07/28/2011 22:40	John P Hook	1
01662	Potassium	SW-846 6010B	1	112015708003	07/28/2011 22:40	John P Hook	1
01667	Sodium	SW-846 6010B	1	112015708003	07/28/2011 22:40	John P Hook	1
07968	Strontium	SW-846 6010B	1	112015708003	07/28/2011 22:40	John P Hook	1
06969	Tin	SW-846 6010B	1	112015708003	07/28/2011 22:40	John P Hook	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-154-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA6-SS-0.0-0.5

LLI Sample # SW 6349711
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 10:08

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0302 SDG#: DE203-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112015708003	07/28/2011 22:40	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112015708003	07/28/2011 22:40	John P Hook	1
06124	Antimony	SW-846 6020	1	112011026004A	07/27/2011 16:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112011026004A	07/27/2011 16:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112011026004D	07/27/2011 16:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112011026004A	07/27/2011 16:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112011026004A	07/27/2011 16:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112011026004A	07/27/2011 16:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112011026004A	07/27/2011 16:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112011026004A	07/27/2011 16:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112011026004A	07/27/2011 16:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112011026004C	07/27/2011 16:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112011026004A	07/27/2011 16:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112011026004B	07/27/2011 22:40	David K Beck	2
06142	Silver	SW-846 6020	1	112011026004A	07/27/2011 16:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112011026004A	07/27/2011 16:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112011026004A	07/27/2011 16:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112011026004A	07/27/2011 16:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112015711003	07/21/2011 09:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112015708003	07/20/2011 21:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112011026004	07/20/2011 21:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112015711003	07/21/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209621201A	07/31/2011 07:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209495201A	07/30/2011 15:51	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243201A	08/03/2011 18:17	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209621201A	07/28/2011 08:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209495201A	07/28/2011 22:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039401A	08/01/2011 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243201A	08/02/2011 09:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401A	07/26/2011 20:29	Scott W Freisher	1

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Analysis Report

Sample Description: SL-166-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA6-SS-0.0-0.5

LLI Sample # SW 6349712
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 15:09

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0303 SDG#: DE203-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	41,000		340	3,400		20
04688	Di-n-butylphthalate	84-74-2	270		17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	440		17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-166-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA6-SS-0.0-0.5

LLI Sample # SW 6349712
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 15:09

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0303 SDG#: DE203-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7		1
10138	Anthracene	120-12-7	0.50	J	0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	2.7		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	2.9		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	5.0		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	2.0		0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	2.0		0.67	1.7		1
10138	Chrysene	218-01-9	3.5		0.33	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Fluoranthene	206-44-0	6.8		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	2.8		0.67	1.7		1
10138	Pyrene	129-00-0	5.4		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	2.2		0.62	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-166-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA6-SS-0.0-0.5

LLI Sample # SW 6349712
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 15:09

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0303 SDG#: DE203-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised for 2,4,5-T due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.80	U	0.80	3.4		1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34		1
01363	p,p-DDE	72-55-9	0.066	U	0.066	0.34		1
01363	p,p-DDT	50-29-3	0.20	U	0.20	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.066	U	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.066	U	0.066	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.066	U	0.066	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.19	U	0.19	0.34		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.12	J	0.066	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6		1
	The TCX surrogate recovery is outside the lower QC limit for the Laboratory Control Spike. Since the analyte recoveries are within the QC limits, the data is reported. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The surrogate data in the original extract is outside the QC limits. Results from the reextraction are also outside the QC limits, indicating possible matrix interference. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	2.4		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-166-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA6-SS-0.0-0.5

LLI Sample # SW 6349712
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 15:09

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0303 SDG#: DE203-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
	The sample was analyzed in hold with bracketing calibration check standards that were outside the method limits. The blank and sample had reportable recoveries for target compounds. The sample was re-extracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. The re-extract results are reported.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.81	U	0.81	2.4		2
10199	EFH (C15-C20)	n.a.	1.0	J	0.81	2.4		2
10199	EFH (C21-C30)	n.a.	12		0.81	2.4		2
10199	EFH (C30 - C40)	n.a.	38		0.81	2.4		2
10199	EFH (C8-C11)	n.a.	0.81	U	0.81	2.4		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,400		5.99	19.8		1
07914	Boron	7440-42-8	5.74		0.356	4.95		1
01650	Calcium	7440-70-2	3,690		2.47	19.8		1
01654	Iron	7439-89-6	27,900		12.9	98.9		5
01656	Lithium	7439-93-2	30.1		0.61	2.0		1
01657	Magnesium	7439-95-4	6,140		0.435	9.89		1
06958	Manganese	7439-96-5	371		0.0356	0.495		1
10145	Phosphorus	7723-14-0	538		0.346	9.89		1
01662	Potassium	7440-09-7	4,090		11.2	49.5		1
01667	Sodium	7440-23-5	115		5.89	98.9		1
07968	Strontium	7440-24-6	17.7		0.0247	0.495		1
06969	Tin	7440-31-5	3.32	J	0.317	9.89		1
06970	Titanium	7440-32-6	1,330		0.0703	0.989		1
10146	Zirconium	7440-67-7	3.85	J	0.455	4.95		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.167	J	0.0747	0.202		2

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Sample Description: SL-166-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA6-SS-0.0-0.5

LLI Sample # SW 6349712
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 15:09

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0303 SDG#: DE203-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.1		0.0807	0.404		2
06126	Barium	7440-39-3	156		0.107	0.404		2
06127	Beryllium	7440-41-7	0.865		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.205		0.0444	0.101		2
06131	Chromium	7440-47-3	31.0		0.121	0.404		2
06132	Cobalt	7440-48-4	12.9		0.0202	0.101		2
06133	Copper	7440-50-8	25.8		0.0807	0.404		2
06135	Lead	7439-92-1	12.0		0.0103	0.202		2
06138	Molybdenum	7439-98-7	0.815		0.0505	0.101		2
06139	Nickel	7440-02-0	23.5		0.101	0.404		2
06141	Selenium	7782-49-2	0.194	J	0.0585	0.404		2
06142	Silver	7440-22-4	0.0717	J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.415		0.0303	0.101		2
06148	Vanadium	7440-62-2	59.0		0.0222	0.101		2
06149	Zinc	7440-66-6	113		0.565	3.03		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	J	0.0067	0.0952		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.50		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.92		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-166-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA6-SS-0.0-0.5

LLI Sample # SW 6349712
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 15:09

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0303 SDG#: DE203-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11209SLC026	08/11/2011 00:53	Jennifer R Riggs	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11209SLC026	08/13/2011 02:51	Jennifer R Riggs	20
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11209SLB026	08/02/2011 06:46	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11209SLB026	07/29/2011 11:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11209SLC026	07/29/2011 06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090026A	08/03/2011 09:12	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100006A	08/20/2011 19:59	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112100003A	08/03/2011 04:43	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100006A	07/29/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112100003A	07/29/2011 14:00	Wanda F Oswald	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090026A	07/28/2011 20:30	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112070029A	07/27/2011 14:58	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112010013A	07/21/2011 16:56	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112100010A	08/02/2011 14:31	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112100019A	08/02/2011 22:29	Tracy A Cole	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112100019A	07/30/2011 10:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112100010A	07/29/2011 18:10	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112070029A	07/26/2011 22:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112010013A	07/21/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112065708003	07/30/2011 10:36	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112065708003	07/30/2011 10:36	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112065708003	07/30/2011 10:36	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112065708003	08/01/2011 10:33	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	112065708003	07/30/2011 10:36	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112065708003	07/30/2011 10:36	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112065708003	07/30/2011 10:36	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112065708003	07/30/2011 10:36	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112065708003	07/30/2011 10:36	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112065708003	07/30/2011 10:36	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112065708003	07/30/2011 10:36	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112065708003	07/30/2011 10:36	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112065708003	07/30/2011 10:36	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112065708003	07/30/2011 10:36	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112061026002A	07/28/2011 13:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112061026002A	07/28/2011 13:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112061026002D	07/28/2011 13:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112061026002A	07/28/2011 13:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112061026002A	07/28/2011 13:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112061026002A	07/28/2011 13:57	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-166-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA6-SS-0.0-0.5

LLI Sample # SW 6349712
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 15:09

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0303 SDG#: DE203-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	112061026002A	07/28/2011 13:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112061026002A	07/28/2011 13:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112061026002A	07/28/2011 13:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112061026002C	07/28/2011 13:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112061026002A	07/28/2011 13:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112061026002B	07/28/2011 13:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112061026002A	07/28/2011 13:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112061026002A	07/28/2011 13:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112061026002A	07/28/2011 13:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112061026002A	07/28/2011 13:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112045711003	07/26/2011 09:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112065708003	07/25/2011 22:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112061026002	07/25/2011 23:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112045711003	07/25/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209621201A	07/31/2011 07:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209495201A	07/30/2011 16:37	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243201A	08/03/2011 18:24	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209621201A	07/28/2011 08:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209495201A	07/28/2011 22:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039401A	08/01/2011 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243201A	08/02/2011 09:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401A	07/26/2011 20:29	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-168-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA6-SS-0.0-0.5

LLI Sample # SW 6349713
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:02

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0304 SDG#: DE203-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	J	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1

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Sample Description: SL-168-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA6-SS-0.0-0.5

LLI Sample # SW 6349713
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:02

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0304 SDG#: DE203-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.66	U	0.66	1.7		1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7		1
10138	Anthracene	120-12-7	0.70	J	0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.1	J	0.66	1.7		1
10138	Benzo(a)pyrene	50-32-8	41		0.66	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	8.6		0.66	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	2.6		0.66	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	27		0.66	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	4.7		0.33	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.66	U	0.66	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	35		6.0	18		1
10138	Fluoranthene	206-44-0	2.8		0.66	1.7		1
10138	Fluorene	86-73-7	0.66	U	0.66	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.66	U	0.66	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.66	U	0.66	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.66	U	0.66	1.7		1
10138	Naphthalene	91-20-3	0.74	J	0.66	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.66	U	0.66	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	0.82	J	0.66	1.7		1
10138	Pyrene	129-00-0	1.2	J	0.66	1.7		1
	The following compounds were detected in the method blank at the respective concentrations of: bis(2-ethylhexyl)phthalate 10 ug/kg These blank values were not subtracted from the analytical results.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	0.94	U	0.94	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.26		0.083	0.17		1

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Sample Description: SL-168-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA6-SS-0.0-0.5

LLI Sample # SW 6349713
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:02

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0304 SDG#: DE203-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised for 2,4-DB due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.13	J	0.034	0.17		1
01363	Chlordane	57-74-9	3.5		0.80	3.4		1
01363	p,p-DDD	72-54-8	2.4		0.066	0.34		1
01363	p,p-DDE	72-55-9	4.0		0.33	1.7		5
01363	p,p-DDT	50-29-3	70		3.3	17		50
01363	Delta BHC	319-86-8	0.054	J	0.036	0.17		1
01363	Dieldrin	60-57-1	0.76		0.066	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.23	J	0.066	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.47		0.066	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.066	U	0.066	0.34		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	2.3		0.34	1.7		1
01363	Mirex	2385-85-5	1.1		0.066	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6		1

The TCX surrogate recovery is outside the lower QC limit for the Laboratory Control Spike. Since the analyte recoveries are within the QC limits, the data is reported.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	3.0	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	5.2		0.33	1.7		1
10225	PCB-1260	11096-82-5	1.3	J	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1

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Sample Description: SL-168-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA6-SS-0.0-0.5

LLI Sample # SW 6349713
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:02

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0304 SDG#: DE203-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	200	J	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
	The sample was analyzed in hold with bracketing calibration check standards that were outside the method limits. The blank and sample had reportable recoveries for target compounds. The sample was re-extracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. The re-extract results are reported.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	20	U	20	60		50
10199	EFH (C15-C20)	n.a.	20	U	20	60		50
10199	EFH (C21-C30)	n.a.	280		20	60		50
10199	EFH (C30 - C40)	n.a.	700		20	60		50
10199	EFH (C8-C11)	n.a.	20	U	20	60		50
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,000		6.03	19.9		1
07914	Boron	7440-42-8	4.90	J	0.359	4.99		1
01650	Calcium	7440-70-2	2,760		2.49	19.9		1
01654	Iron	7439-89-6	19,000		2.60	19.9		1
01656	Lithium	7439-93-2	22.3		0.62	2.0		1
01657	Magnesium	7439-95-4	4,460		0.439	9.97		1
06958	Manganese	7439-96-5	302		0.0359	0.499		1
10145	Phosphorus	7723-14-0	461		0.349	9.97		1
01662	Potassium	7440-09-7	3,400		11.3	49.9		1
01667	Sodium	7440-23-5	94.6	J	5.94	99.7		1
07968	Strontium	7440-24-6	21.1		0.0249	0.499		1
06969	Tin	7440-31-5	2.88	J	0.319	9.97		1
06970	Titanium	7440-32-6	1,060		0.0708	0.997		1
10146	Zirconium	7440-67-7	3.49	J	0.459	4.99		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.148	J	0.0731	0.198		2

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Sample Description: SL-168-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA6-SS-0.0-0.5

LLI Sample # SW 6349713
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:02

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0304 SDG#: DE203-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.15		0.0790	0.395		2
06126	Barium	7440-39-3	120		0.105	0.395		2
06127	Beryllium	7440-41-7	0.616		0.0158	0.0988		2
06128	Cadmium	7440-43-9	0.292		0.0435	0.0988		2
06131	Chromium	7440-47-3	23.9		0.119	0.395		2
06132	Cobalt	7440-48-4	7.45		0.0198	0.0988		2
06133	Copper	7440-50-8	12.9		0.0790	0.395		2
06135	Lead	7439-92-1	16.8		0.0101	0.198		2
06138	Molybdenum	7439-98-7	0.797		0.0494	0.0988		2
06139	Nickel	7440-02-0	17.9		0.0988	0.395		2
06141	Selenium	7782-49-2	0.157	J	0.0573	0.395		2
06142	Silver	7440-22-4	0.0482	J	0.0140	0.0988		2
06145	Thallium	7440-28-0	0.304		0.0296	0.0988		2
06148	Vanadium	7440-62-2	44.9		0.0217	0.0988		2
06149	Zinc	7440-66-6	93.3		0.553	2.96		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0129	J	0.0069	0.0983		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.79	0.99		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1		0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.46		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.74		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-168-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA6-SS-0.0-0.5

LLI Sample # SW 6349713
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:02

Submitted: 07/20/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E0304 SDG#: DE203-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11209SLC026	08/11/2011 01:18	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11209SLB026	08/02/2011 07:18	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11209SLB026	07/29/2011 11:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11209SLC026	07/29/2011 06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090026A	08/03/2011 09:40	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100006A	08/20/2011 20:14	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100006A	08/23/2011 02:40	Melissa McDermott	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100006A	08/24/2011 07:12	Melissa McDermott	50
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112100003A	08/03/2011 05:01	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100006A	07/29/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112100003A	07/29/2011 14:00	Wanda F Oswald	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090026A	07/28/2011 20:30	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112070029A	07/27/2011 15:14	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112010013A	07/21/2011 17:09	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112100010A	08/02/2011 17:29	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112100019A	08/01/2011 18:14	Tracy A Cole	50
11238	EFH Extraction - Soils	SW-846 3550B	1	112100019A	07/30/2011 10:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112100010A	07/29/2011 18:10	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112070029A	07/26/2011 22:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112010013A	07/21/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112065708003	07/30/2011 10:58	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112065708003	07/30/2011 10:58	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112065708003	07/30/2011 10:58	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112065708003	07/30/2011 10:58	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112065708003	07/30/2011 10:58	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112065708003	07/30/2011 10:58	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112065708003	07/30/2011 10:58	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112065708003	07/30/2011 10:58	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112065708003	07/30/2011 10:58	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112065708003	07/30/2011 10:58	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112065708003	07/30/2011 10:58	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112065708003	07/30/2011 10:58	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112065708003	07/30/2011 10:58	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112065708003	07/30/2011 10:58	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112061026002A	07/28/2011 14:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112061026002A	07/28/2011 14:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112061026002D	07/28/2011 14:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112061026002A	07/28/2011 14:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112061026002A	07/28/2011 14:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112061026002A	07/28/2011 14:22	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-168-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA6-SS-0.0-0.5

LLI Sample # SW 6349713
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:02

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0304 SDG#: DE203-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	112061026002A	07/28/2011 14:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112061026002A	07/28/2011 14:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112061026002A	07/28/2011 14:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112061026002C	07/28/2011 14:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112061026002A	07/28/2011 14:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112061026002B	07/28/2011 14:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112061026002A	07/28/2011 14:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112061026002A	07/28/2011 14:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112061026002A	07/28/2011 14:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112061026002A	07/28/2011 14:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112045711003	07/26/2011 09:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112065708003	07/25/2011 22:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112061026002	07/25/2011 23:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112045711003	07/25/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209621201A	07/31/2011 08:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209495201A	07/30/2011 17:00	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243201A	08/03/2011 18:38	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209621201A	07/28/2011 08:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209495201A	07/28/2011 22:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039401A	08/01/2011 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243201A	08/02/2011 09:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401A	07/26/2011 20:29	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-169-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-169-SA6-SS-0.0-0.5

LLI Sample # SW 6349714
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:27

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0305 SDG#: DE203-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(b)fluoranthene	205-99-2	17	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Chrysene	218-01-9	24	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Sample Description: SL-169-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-169-SA6-SS-0.0-0.5

LLI Sample # SW 6349714
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:27

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0305 SDG#: DE203-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenanthrene	85-01-8	22	J	17	170		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	48	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	2.0		0.34	1.7		1
10138	Anthracene	120-12-7	8.1		0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	6.2		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	3.1		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	4.0		0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	3.8		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	19		6.1	18		1
10138	Fluoranthene	206-44-0	65		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.6	J	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.70	J	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
	The following compounds were detected in the method blank at the respective concentrations of: bis(2-ethylhexyl)phthalate 10 ug/kg These blank values were not subtracted from the analytical results.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	0.62	U	0.62	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	540	U	540	540		1

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Sample Description: SL-169-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-169-SA6-SS-0.0-0.5

LLI Sample # SW 6349714
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:27

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0305 SDG#: DE203-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.14	U	0.14	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised for MCPA and 2,4,5-T due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.077	J	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	9.2		1.3	6.9		20
01363	p,p-DDT	50-29-3	37	U	37	37		20
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	2.9	U	2.9	2.9		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	3.2	U	3.2	6.9		20
01363	Endrin Aldehyde	7421-93-4	1.8	U	1.8	1.8		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.60		0.067	0.34		1
01363	Toxaphene	8001-35-2	320	U	320	320		20

The TCX surrogate recovery is outside the lower QC limit for the Laboratory Control Spike. Since the analyte recoveries are within the QC limits, the data is reported.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that mirex was not detected in the reextract.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	100	U	100	330		100
10225	Aroclor 5442	12642-23-8	100	U	100	330		100
10225	Aroclor 5460	11126-42-4	100	U	100	330		100
10225	PCB-1016	12674-11-2	33	U	33	170		100
10225	PCB-1221	11104-28-2	33	U	33	170		100

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-169-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-169-SA6-SS-0.0-0.5

LLI Sample # SW 6349714
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:27

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0305 SDG#: DE203-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	33	U	33	170		100
10225	PCB-1242	53469-21-9	33	U	33	170		100
10225	PCB-1248	12672-29-6	33	U	33	170		100
10225	PCB-1254	11097-69-1	850		33	170		100
10225	PCB-1260	11096-82-5	39	U	39	170		100
10225	PCB-1262	37324-23-5	33	U	33	170		100
10225	PCB-1268	11100-14-4	33	U	33	170		100
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
	The sample was analyzed in hold with bracketing calibration check standards that were outside the method limits. The blank and sample had reportable recoveries for target compounds. The sample was re-extracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. The re-extract results are reported.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	10	U	10	30		25
10199	EFH (C15-C20)	n.a.	10	U	10	30		25
10199	EFH (C21-C30)	n.a.	88		10	30		25
10199	EFH (C30 - C40)	n.a.	170		10	30		25
10199	EFH (C8-C11)	n.a.	10	U	10	30		25
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,300		6.05	20.0		1
07914	Boron	7440-42-8	4.90	J	0.360	5.00		1
01650	Calcium	7440-70-2	2,350		2.50	20.0		1
01654	Iron	7439-89-6	19,700		2.61	20.0		1
01656	Lithium	7439-93-2	24.8		0.62	2.0		1
01657	Magnesium	7439-95-4	4,780		0.440	10.0		1
06958	Manganese	7439-96-5	317		0.0360	0.500		1
10145	Phosphorus	7723-14-0	472		0.350	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-169-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-169-SA6-SS-0.0-0.5

LLI Sample # SW 6349714
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:27

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0305 SDG#: DE203-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	3,340		11.3	50.0		1
01667	Sodium	7440-23-5	72.1	J	5.95	100		1
07968	Strontium	7440-24-6	15.6		0.0250	0.500		1
06969	Tin	7440-31-5	2.99	J	0.320	10.0		1
06970	Titanium	7440-32-6	1,130		0.0710	1.00		1
10146	Zirconium	7440-67-7	3.37	J	0.460	5.00		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.213		0.0726	0.196		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.80		0.0784	0.392		2
06126	Barium	7440-39-3	123		0.104	0.392		2
06127	Beryllium	7440-41-7	0.614		0.0157	0.0980		2
06128	Cadmium	7440-43-9	0.472		0.0431	0.0980		2
06131	Chromium	7440-47-3	21.5		0.118	0.392		2
06132	Cobalt	7440-48-4	7.21		0.0196	0.0980		2
06133	Copper	7440-50-8	13.9		0.0784	0.392		2
06135	Lead	7439-92-1	37.7		0.0100	0.196		2
06138	Molybdenum	7439-98-7	0.723		0.0490	0.0980		2
06139	Nickel	7440-02-0	15.2		0.0980	0.392		2
06141	Selenium	7782-49-2	0.176	J	0.0569	0.392		2
06142	Silver	7440-22-4	0.0516	J	0.0139	0.0980		2
06145	Thallium	7440-28-0	0.283		0.0294	0.0980		2
06148	Vanadium	7440-62-2	40.3		0.0216	0.0980		2
06149	Zinc	7440-66-6	134		0.549	2.94		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0068	U	0.0068	0.0967		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1		0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.64		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.98		0.50	0.50		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-169-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-169-SA6-SS-0.0-0.5

LLI Sample # SW 6349714
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:27

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0305 SDG#: DE203-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11209SLC026	08/11/2011 01:43	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11209SLB026	08/02/2011 07:50	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11209SLB026	07/29/2011 11:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11209SLC026	07/29/2011 06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090026A	08/03/2011 11:02	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100006A	08/20/2011 20:29	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100006A	08/20/2011 20:44	Melissa McDermott	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112100003A	08/03/2011 05:20	Sarah M Snyder	100
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100006A	07/29/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112100003A	07/29/2011 14:00	Wanda F Oswald	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090026A	07/28/2011 20:30	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112070029A	07/27/2011 15:29	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112010013A	07/21/2011 17:21	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112100010A	08/02/2011 18:14	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112100019A	08/01/2011 15:02	Tracy A Cole	25
11238	EFH Extraction - Soils	SW-846 3550B	1	112100019A	07/30/2011 10:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112100010A	07/29/2011 18:10	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112070029A	07/26/2011 22:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112010013A	07/21/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112065708003	07/30/2011 11:09	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112065708003	07/30/2011 11:09	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112065708003	07/30/2011 11:09	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112065708003	07/30/2011 11:09	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112065708003	07/30/2011 11:09	Damary Valentin	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-169-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-169-SA6-SS-0.0-0.5

LLI Sample # SW 6349714
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:27

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0305 SDG#: DE203-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	112065708003	07/30/2011 11:09	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112065708003	07/30/2011 11:09	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112065708003	07/30/2011 11:09	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112065708003	07/30/2011 11:09	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112065708003	07/30/2011 11:09	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112065708003	07/30/2011 11:09	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112065708003	07/30/2011 11:09	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112065708003	07/30/2011 11:09	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112065708003	07/30/2011 11:09	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112061026002A	07/28/2011 14:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112061026002A	07/28/2011 14:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112061026002D	07/28/2011 14:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112061026002A	07/28/2011 14:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112061026002A	07/28/2011 14:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112061026002A	07/28/2011 14:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112061026002A	07/28/2011 14:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112061026002A	07/28/2011 14:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112061026002A	07/28/2011 14:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112061026002C	07/28/2011 14:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112061026002A	07/28/2011 14:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112061026002B	07/28/2011 14:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112061026002A	07/28/2011 14:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112061026002A	07/28/2011 14:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112061026002A	07/28/2011 14:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112061026002A	07/28/2011 14:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	2	112075711004	07/27/2011 15:54	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112065708003	07/25/2011 22:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112061026002	07/25/2011 23:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112045711003	07/25/2011 02:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	112075711004	07/27/2011 11:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209621201A	07/31/2011 08:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209495201A	07/30/2011 17:23	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243201A	08/03/2011 18:53	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209621201A	07/28/2011 08:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209495201A	07/28/2011 22:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039401A	08/01/2011 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243201A	08/02/2011 09:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401A	07/26/2011 20:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-171-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA6-SS-0.0-0.5

LLI Sample # SW 6349715
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 14:21

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0306 SDG#: DE203-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	30	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-171-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA6-SS-0.0-0.5

LLI Sample # SW 6349715
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 14:21

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0306 SDG#: DE203-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.5	J	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.7		0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	2.2		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Fluoranthene	206-44-0	2.0		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	1.3	J	0.67	1.7		1
10138	Pyrene	129-00-0	1.2	J	0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	18	U	18	18		1
10401	Dicamba	1918-00-9	0.59	U	0.59	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.28	U	0.28	0.28		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-171-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA6-SS-0.0-0.5

LLI Sample # SW 6349715
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 14:21

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0306 SDG#: DE203-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Reporting limits were raised for dicambe, 2,4,5-T, and 2,4-DB due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.14	J	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.25	J	0.067	0.34		1
01363	p,p-DDT	50-29-3	0.14	U	0.14	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.19	U	0.19	0.34		1
01363	Toxaphene	8001-35-2	15	U	15	15		1
	The TCX surrogate recovery is outside the lower QC limit for the Laboratory Control Spike. Since the analyte recoveries are within the QC limits, the data is reported.							
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	The surrogate data in the original extract is outside the QC limits. Results from the reextraction are also outside the QC limits, indicating possible matrix interference.							
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	1.2	J	0.33	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-171-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA6-SS-0.0-0.5

LLI Sample # SW 6349715
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 14:21

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0306 SDG#: DE203-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
	The sample was analyzed in hold with bracketing calibration check standards that were outside the method limits. The blank and sample had reportable recoveries for target compounds. The sample was re-extracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. The re-extract results are reported.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	10	U	10	30		25
10199	EFH (C15-C20)	n.a.	10	U	10	30		25
10199	EFH (C21-C30)	n.a.	57		10	30		25
10199	EFH (C30 - C40)	n.a.	170		10	30		25
10199	EFH (C8-C11)	n.a.	10	U	10	30		25
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,600		6.07	20.1		1
07914	Boron	7440-42-8	6.29		0.361	5.02		1
01650	Calcium	7440-70-2	4,400		2.51	20.1		1
01654	Iron	7439-89-6	23,500		2.62	20.1		1
01656	Lithium	7439-93-2	26.1		0.62	2.0		1
01657	Magnesium	7439-95-4	5,870		0.441	10.0		1
06958	Manganese	7439-96-5	406		0.0361	0.502		1
10145	Phosphorus	7723-14-0	676		0.351	10.0		1
01662	Potassium	7440-09-7	4,560		11.3	50.2		1
01667	Sodium	7440-23-5	125		5.97	100		1
07968	Strontium	7440-24-6	24.5		0.0251	0.502		1
06969	Tin	7440-31-5	3.30	J	0.321	10.0		1
06970	Titanium	7440-32-6	1,330		0.0712	1.00		1
10146	Zirconium	7440-67-7	4.51	J	0.461	5.02		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.380		0.0721	0.195		2

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Sample Description: SL-171-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA6-SS-0.0-0.5

LLI Sample # SW 6349715
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 14:21

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0306 SDG#: DE203-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.69		0.0779	0.390		2
06126	Barium	7440-39-3	120		0.103	0.390		2
06127	Beryllium	7440-41-7	0.452		0.0156	0.0974		2
06128	Cadmium	7440-43-9	0.161		0.0429	0.0974		2
06131	Chromium	7440-47-3	19.2		0.117	0.390		2
06132	Cobalt	7440-48-4	6.36		0.0195	0.0974		2
06133	Copper	7440-50-8	11.6		0.0779	0.390		2
06135	Lead	7439-92-1	6.81		0.0099	0.195		2
06138	Molybdenum	7439-98-7	0.434		0.0487	0.0974		2
06139	Nickel	7440-02-0	12.8		0.0974	0.390		2
06141	Selenium	7782-49-2	0.117	J	0.0565	0.390		2
06142	Silver	7440-22-4	0.0238	J	0.0138	0.0974		2
06145	Thallium	7440-28-0	0.245		0.0292	0.0974		2
06148	Vanadium	7440-62-2	35.9		0.0214	0.0974		2
06149	Zinc	7440-66-6	63.2		0.546	2.92		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078	J	0.0066	0.0940		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.88	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.66		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-171-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA6-SS-0.0-0.5

LLI Sample # SW 6349715
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 14:21

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0306 SDG#: DE203-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11209SLC026	08/11/2011 02:08	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11209SLB026	08/02/2011 08:22	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11209SLB026	07/29/2011 11:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11209SLC026	07/29/2011 06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090026A	08/03/2011 11:30	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100006A	08/20/2011 20:59	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112100003A	08/03/2011 05:38	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100006A	07/29/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112100003A	07/29/2011 14:00	Wanda F Oswald	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090026A	07/28/2011 20:30	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112070029A	07/27/2011 15:44	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112010013A	07/21/2011 17:34	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112100010A	08/02/2011 15:16	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112100019A	08/01/2011 16:38	Tracy A Cole	25
11238	EFH Extraction - Soils	SW-846 3550B	1	112100019A	07/30/2011 10:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112100010A	07/29/2011 18:10	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112070029A	07/26/2011 22:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112010013A	07/21/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112065708003	07/30/2011 11:13	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112065708003	07/30/2011 11:13	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112065708003	07/30/2011 11:13	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112065708003	07/30/2011 11:13	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112065708003	07/30/2011 11:13	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112065708003	07/30/2011 11:13	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112065708003	07/30/2011 11:13	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112065708003	07/30/2011 11:13	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112065708003	07/30/2011 11:13	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112065708003	07/30/2011 11:13	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112065708003	07/30/2011 11:13	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112065708003	07/30/2011 11:13	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112065708003	07/30/2011 11:13	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112065708003	07/30/2011 11:13	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112061026002A	07/28/2011 14:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112061026002A	07/28/2011 14:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112061026002D	07/28/2011 14:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112061026002A	07/28/2011 14:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112061026002A	07/28/2011 14:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112061026002A	07/28/2011 14:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112061026002A	07/28/2011 14:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112061026002A	07/28/2011 14:28	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-171-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA6-SS-0.0-0.5

LLI Sample # SW 6349715
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 14:21

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0306 SDG#: DE203-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	112061026002A	07/28/2011 14:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112061026002C	07/28/2011 14:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112061026002A	07/28/2011 14:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112061026002B	07/28/2011 14:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112061026002A	07/28/2011 14:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112061026002A	07/28/2011 14:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112061026002A	07/28/2011 14:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112061026002A	07/28/2011 14:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112045711003	07/26/2011 09:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112065708003	07/25/2011 22:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112061026002	07/25/2011 23:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112045711003	07/25/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209621201A	07/31/2011 08:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209495201A	07/30/2011 17:46	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243201A	08/03/2011 19:14	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209621201A	07/28/2011 08:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209495201A	07/28/2011 22:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039401A	08/01/2011 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243201A	08/02/2011 09:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401A	07/26/2011 20:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-172-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA6-SS-0.0-0.5

LLI Sample # SW 6349716
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:18

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0307 SDG#: DE203-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1

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Sample Description: SL-172-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA6-SS-0.0-0.5

LLI Sample # SW 6349716
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:18

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0307 SDG#: DE203-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.49	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.6		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.8		0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	1.1	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	18	J	6.5	20		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.79	J	0.72	1.8		1
	The following compounds were detected in the method blank at the respective concentrations of: bis(2-ethylhexyl)phthalate 10 ug/kg These blank values were not subtracted from the analytical results.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.7		1
10401	2,4-DB	94-82-6	0.98	U	0.98	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8		1
10401	MCPA	94-74-6	82	U	82	270		1
10401	MCPP (Mecoprop)	93-65-2	81	U	81	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18		1

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Sample Description: SL-172-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA6-SS-0.0-0.5

LLI Sample # SW 6349716
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:18

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0307 SDG#: DE203-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised for 2,4-DB due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.067	J	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	0.21	J	0.072	0.37		1
01363	p,p-DDT	50-29-3	0.36	J	0.072	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.15	U	0.15	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.16	U	0.16	0.37		1
01363	Toxaphene	8001-35-2	5.8	U	5.8	7.2		1

The TCX surrogate recovery is outside the lower QC limit for the Laboratory Control Spike. Since the analyte recoveries are within the QC limits, the data is reported.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1

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Sample Description: SL-172-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA6-SS-0.0-0.5

LLI Sample # SW 6349716
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:18

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0307 SDG#: DE203-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.73	J	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,900		6.58	21.8		1
07914	Boron	7440-42-8	4.64	J	0.392	5.44		1
01650	Calcium	7440-70-2	2,530		2.72	21.8		1
01654	Iron	7439-89-6	23,400		2.84	21.8		1
01656	Lithium	7439-93-2	27.8		0.67	2.2		1
01657	Magnesium	7439-95-4	5,420		0.479	10.9		1
06958	Manganese	7439-96-5	313		0.0392	0.544		1
10145	Phosphorus	7723-14-0	391		0.381	10.9		1
01662	Potassium	7440-09-7	3,140		12.3	54.4		1
01667	Sodium	7440-23-5	97.7	J	6.47	109		1
07968	Strontium	7440-24-6	20.8		0.0272	0.544		1
06969	Tin	7440-31-5	3.37	J	0.348	10.9		1
06970	Titanium	7440-32-6	1,290		0.0773	1.09		1
10146	Zirconium	7440-67-7	4.16	J	0.501	5.44		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.153	J	0.0774	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.11		0.0837	0.419		2
06126	Barium	7440-39-3	115		0.111	0.419		2
06127	Beryllium	7440-41-7	0.726		0.0167	0.105		2
06128	Cadmium	7440-43-9	0.371		0.0460	0.105		2
06131	Chromium	7440-47-3	24.8		0.126	0.419		2
06132	Cobalt	7440-48-4	7.57		0.0209	0.105		2
06133	Copper	7440-50-8	14.7		0.0837	0.419		2
06135	Lead	7439-92-1	13.2		0.0107	0.209		2
06138	Molybdenum	7439-98-7	0.602		0.0523	0.105		2
06139	Nickel	7440-02-0	17.5		0.105	0.419		2
06141	Selenium	7782-49-2	0.168	J	0.0607	0.419		2
06142	Silver	7440-22-4	0.0386	J	0.0149	0.105		2
06145	Thallium	7440-28-0	0.310		0.0314	0.105		2
06148	Vanadium	7440-62-2	45.6		0.0230	0.105		2
06149	Zinc	7440-66-6	107		0.586	3.14		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0329	J	0.0074	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.88	1.1		1

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Sample Description: SL-172-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA6-SS-0.0-0.5

LLI Sample # SW 6349716
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:18

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E0307 SDG#: DE203-07

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.8	U	9.8	32.6		1
		SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199		18540-29-9	0.91	J	0.22	1.1		1
		SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C		n.a.	6.94		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3		n.a.	8.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11209SLC026	08/11/2011	02:33	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11209SLB026	08/02/2011	08:53	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11209SLB026	07/29/2011	11:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11209SLC026	07/29/2011	06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090026A	08/03/2011	11:58	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100006A	08/20/2011	21:14	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112100003A	08/03/2011	05:57	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100006A	07/29/2011	13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112100003A	07/29/2011	14:00	Wanda F Oswald	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090026A	07/28/2011	20:30	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112065708003	07/30/2011	11:16	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112065708003	07/30/2011	11:16	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112065708003	07/30/2011	11:16	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112065708003	07/30/2011	11:16	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112065708003	07/30/2011	11:16	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112065708003	07/30/2011	11:16	Damary Valentin	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-172-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA6-SS-0.0-0.5

LLI Sample # SW 6349716
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:18

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E0307 SDG#: DE203-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	112065708003	07/30/2011 11:16	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112065708003	07/30/2011 11:16	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112065708003	07/30/2011 11:16	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112065708003	07/30/2011 11:16	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112065708003	07/30/2011 11:16	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112065708003	07/30/2011 11:16	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112065708003	07/30/2011 11:16	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112065708003	07/30/2011 11:16	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112061026002A	07/28/2011 14:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112061026002A	07/28/2011 14:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112061026002D	07/28/2011 14:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112061026002A	07/28/2011 14:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112061026002A	07/28/2011 14:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112061026002A	07/28/2011 14:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112061026002A	07/28/2011 14:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112061026002A	07/28/2011 14:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112061026002A	07/28/2011 14:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112061026002C	07/28/2011 14:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112061026002A	07/28/2011 14:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112061026002B	07/28/2011 14:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112061026002A	07/28/2011 14:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112061026002A	07/28/2011 14:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112061026002A	07/28/2011 14:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112061026002A	07/28/2011 14:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112045711003	07/26/2011 09:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112065708003	07/25/2011 22:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112061026002	07/25/2011 23:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112045711003	07/25/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209621201A	07/31/2011 08:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209495201A	07/30/2011 18:10	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243201A	08/03/2011 19:36	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209621201A	07/28/2011 08:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209495201A	07/28/2011 22:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039401A	08/01/2011 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243201A	08/02/2011 09:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401A	07/26/2011 20:29	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-174-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA6-SS-0.0-0.5

LLI Sample # SW 6349717
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:16

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0308 SDG#: DE203-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1

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SSFL Area IV Collocated Soil Sampling
SL-174-SA6-SS-0.0-0.5

LLI Sample # SW 6349717
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:16

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0308 SDG#: DE203-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	1.5	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	0.84	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	18		6.0	18		1
10138	Fluoranthene	206-44-0	1.2	J	0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	0.75	J	0.67	1.7		1
10138	Pyrene	129-00-0	0.94	J	0.67	1.7		1
	The following compounds were detected in the method blank at the respective concentrations of: bis(2-ethylhexyl)phthalate 10 ug/kg These blank values were not subtracted from the analytical results.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	2.2		0.63	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1

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Sample Description: SL-174-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA6-SS-0.0-0.5

LLI Sample # SW 6349717
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:16

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0308 SDG#: DE203-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	2.6	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.22	U	0.22	0.34		1
01363	p,p-DDE	72-55-9	2.1		0.33	1.7		5
01363	p,p-DDT	50-29-3	12		0.33	1.7		5
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	3.5	U	3.5	3.5		5
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.14	U	0.14	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	The TCX surrogate recovery is outside the lower QC limit for the Laboratory Control Spike. Since the analyte recoveries are within the QC limits, the data is reported. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	2.1	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	1.2	J	0.33	1.7		1
10225	PCB-1260	11096-82-5	1.1	J	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1

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Sample Description: SL-174-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA6-SS-0.0-0.5

LLI Sample # SW 6349717
LLI Group # 1257182
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:16

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Suite 210
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E0308 SDG#: DE203-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,500		5.93	19.6		1
07914	Boron	7440-42-8	5.14		0.353	4.90		1
01650	Calcium	7440-70-2	2,850		2.45	19.6		1
01654	Iron	7439-89-6	21,500		2.56	19.6		1
01656	Lithium	7439-93-2	26.2		0.61	2.0		1
01657	Magnesium	7439-95-4	5,120		0.431	9.81		1
06958	Manganese	7439-96-5	327		0.0353	0.490		1
10145	Phosphorus	7723-14-0	400		0.343	9.81		1
01662	Potassium	7440-09-7	3,650		11.1	49.0		1
01667	Sodium	7440-23-5	79.4	J	5.84	98.1		1
07968	Strontium	7440-24-6	20.3		0.0245	0.490		1
06969	Tin	7440-31-5	3.16	J	0.314	9.81		1
06970	Titanium	7440-32-6	1,160		0.0696	0.981		1
10146	Zirconium	7440-67-7	3.56	J	0.451	4.90		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.188	J	0.0740	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.76		0.0800	0.400		2
06126	Barium	7440-39-3	147		0.106	0.400		2
06127	Beryllium	7440-41-7	0.772		0.0160	0.100		2
06128	Cadmium	7440-43-9	0.238		0.0440	0.100		2
06131	Chromium	7440-47-3	26.3		0.120	0.400		2
06132	Cobalt	7440-48-4	8.42		0.0200	0.100		2
06133	Copper	7440-50-8	25.1		0.0800	0.400		2
06135	Lead	7439-92-1	19.4		0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.739		0.0500	0.100		2
06139	Nickel	7440-02-0	18.8		0.100	0.400		2
06141	Selenium	7782-49-2	0.188	J	0.0580	0.400		2
06142	Silver	7440-22-4	0.0599	J	0.0142	0.100		2
06145	Thallium	7440-28-0	0.348		0.0300	0.100		2
06148	Vanadium	7440-62-2	49.0		0.0220	0.100		2
06149	Zinc	7440-66-6	89.7		0.560	3.00		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0138	J	0.0069	0.0983		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.20	1.0		1

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Sample Description: SL-174-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA6-SS-0.0-0.5

LLI Sample # SW 6349717
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:16

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0308 SDG#: DE203-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.07	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	1.0	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11209SLC026	08/11/2011	02:58	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11209SLB026	08/02/2011	09:25	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11209SLB026	07/29/2011	11:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11209SLC026	07/29/2011	06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090026A	08/03/2011	12:25	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100006A	08/20/2011	23:00	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100006A	08/20/2011	23:15	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112100003A	08/03/2011	06:16	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100006A	07/29/2011	13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112100003A	07/29/2011	14:00	Wanda F Oswald	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090026A	07/28/2011	20:30	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112065708003	07/30/2011	11:20	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112065708003	07/30/2011	11:20	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112065708003	07/30/2011	11:20	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112065708003	07/30/2011	11:20	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112065708003	07/30/2011	11:20	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112065708003	07/30/2011	11:20	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112065708003	07/30/2011	11:20	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112065708003	07/30/2011	11:20	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112065708003	07/30/2011	11:20	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112065708003	07/30/2011	11:20	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112065708003	07/30/2011	11:20	Damary Valentin	1

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Sample Description: SL-174-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA6-SS-0.0-0.5

LLI Sample # SW 6349717
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:16

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0308 SDG#: DE203-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112065708003	07/30/2011 11:20	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112065708003	07/30/2011 11:20	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112065708003	07/30/2011 11:20	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112061026002A	07/28/2011 14:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112061026002A	07/28/2011 14:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112061026002D	07/28/2011 14:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112061026002A	07/28/2011 14:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112061026002A	07/28/2011 14:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112061026002A	07/28/2011 14:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112061026002A	07/28/2011 14:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112061026002A	07/28/2011 14:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112061026002A	07/28/2011 14:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112061026002C	07/28/2011 14:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112061026002A	07/28/2011 14:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112061026002B	07/28/2011 14:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112061026002A	07/28/2011 14:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112061026002A	07/28/2011 14:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112061026002A	07/28/2011 14:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112061026002A	07/28/2011 14:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112045711003	07/26/2011 09:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112065708003	07/25/2011 22:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112061026002	07/25/2011 23:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112045711003	07/25/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209621201A	07/31/2011 09:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209495201A	07/30/2011 18:33	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243201A	08/03/2011 19:51	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209621201A	07/28/2011 08:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209495201A	07/28/2011 22:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039401A	08/01/2011 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243201A	08/02/2011 09:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401B	07/26/2011 20:29	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-178-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-178-SA6-SS-0.0-0.5

LLI Sample # SW 6349718
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:40

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0309 SDG#: DE203-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(g,h,i)perylene	191-24-2	87	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	19	J	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	76	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Sample Description: SL-178-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-178-SA6-SS-0.0-0.5

LLI Sample # SW 6349718
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:40

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0309 SDG#: DE203-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	2.7		0.67	1.7		1
10138	Acenaphthylene	208-96-8	59		0.34	1.7		1
10138	Anthracene	120-12-7	29		0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	210		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	190		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	360		1.3	3.4		2
10138	Benzo(k)fluoranthene	207-08-9	160		0.67	1.7		1
10138	Di-n-butylphthalate	84-74-2	28		6.0	18		1
10138	Chrysene	218-01-9	230		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	20		0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	66		6.0	18		1
10138	Fluoranthene	206-44-0	350		1.3	3.4		2
10138	Fluorene	86-73-7	1.4	J	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	1.7		0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	100		6.0	18		1
10138	Phenanthrene	85-01-8	25		0.67	1.7		1
10138	Pyrene	129-00-0	200		0.67	1.7		1
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate 11 ug/kg bis(2-ethylhexyl)phthalate 10 ug/kg These blank values were not subtracted from the analytical results.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	0.62	U	0.62	1.7		1
10401	Dicamba	1918-00-9	0.77	J	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1

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Sample Description: SL-178-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-178-SA6-SS-0.0-0.5

LLI Sample # SW 6349718
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:40

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0309 SDG#: DE203-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	590		75	250		1
10401	2,4,5-T	93-76-5	1.2	U	1.2	1.2		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
The LCS data for dicamba and MCPP is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that MCPP was not detected in the reextract and MCPA was detected in the reextract.
Reporting limits were raised for 2,4,5-T due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	6.5		0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	1.9		0.067	0.34		1
01363	p,p-DDT	50-29-3	11		0.67	3.4		10
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	3.5		0.67	3.4		10
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.46	U	0.46	0.46		1
01363	Endosulfan Sulfate	1031-07-8	0.087	U	0.087	0.34		1
01363	Endrin	72-20-8	0.63	U	0.63	0.63		1
01363	Endrin Aldehyde	7421-93-4	0.96		0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.078	J	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.57	U	0.57	0.57		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.54	U	0.54	0.54		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

The TCX surrogate recovery is outside the lower QC limit for the Laboratory Control Spike. Since the analyte recoveries are within the QC limits, the data is reported.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.0	U	5.0	17		5

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Sample Description: SL-178-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-178-SA6-SS-0.0-0.5

LLI Sample # SW 6349718
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:40

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0309 SDG#: DE203-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5442	12642-23-8	5.0	U	5.0	17		5
10225	Aroclor 5460	11126-42-4	42		5.0	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.6		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6		5
10225	PCB-1254	11097-69-1	75		1.7	8.6		5
10225	PCB-1260	11096-82-5	25		2.0	8.6		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,600		5.93	19.6		1
07914	Boron	7440-42-8	4.09	J	0.353	4.90		1
01650	Calcium	7440-70-2	2,200		2.45	19.6		1
01654	Iron	7439-89-6	20,200		2.56	19.6		1
01656	Lithium	7439-93-2	20.2		0.61	2.0		1
01657	Magnesium	7439-95-4	4,160		0.431	9.80		1
06958	Manganese	7439-96-5	261		0.0353	0.490		1
10145	Phosphorus	7723-14-0	369		0.343	9.80		1
01662	Potassium	7440-09-7	2,990		11.1	49.0		1
01667	Sodium	7440-23-5	85.2	J	5.83	98.0		1
07968	Strontium	7440-24-6	13.0		0.0245	0.490		1
06969	Tin	7440-31-5	3.16	J	0.314	9.80		1
06970	Titanium	7440-32-6	1,070		0.0696	0.980		1
10146	Zirconium	7440-67-7	2.92	J	0.451	4.90		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.136	J	0.0740	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.16		0.0800	0.400		2
06126	Barium	7440-39-3	115		0.106	0.400		2
06127	Beryllium	7440-41-7	0.722		0.0160	0.100		2
06128	Cadmium	7440-43-9	0.250		0.0440	0.100		2
06131	Chromium	7440-47-3	26.1		0.120	0.400		2
06132	Cobalt	7440-48-4	8.67		0.0200	0.100		2
06133	Copper	7440-50-8	15.6		0.0800	0.400		2
06135	Lead	7439-92-1	25.1		0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.554		0.0500	0.100		2
06139	Nickel	7440-02-0	16.3		0.100	0.400		2
06141	Selenium	7782-49-2	0.146	J	0.0580	0.400		2
06142	Silver	7440-22-4	0.0520	J	0.0142	0.100		2
06145	Thallium	7440-28-0	0.357		0.0300	0.100		2
06148	Vanadium	7440-62-2	49.1		0.0220	0.100		2
06149	Zinc	7440-66-6	98.1		0.560	3.00		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-178-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-178-SA6-SS-0.0-0.5

LLI Sample # SW 6349718
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:40

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0309 SDG#: DE203-09

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 7471A**		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury		7439-97-6	0.0295	J	0.0067	0.0952		1
Wet Chemistry		**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	0.82	U	0.82	1.0		1
		EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.1	U	9.1	30.3		1
		SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199		18540-29-9	0.49	J	0.20	1.0		1
		SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C		n.a.	6.35		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3		n.a.	0.98		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11209SLC026	08/11/2011	03:23	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11209SLB026	08/02/2011	09:57	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11209SLB026	08/02/2011	17:18	Gregory J Drahovsky	2
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11209SLB026	07/29/2011	11:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11209SLC026	07/29/2011	06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090026A	08/03/2011	12:53	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100006A	08/20/2011	23:30	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100006A	08/23/2011	03:10	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112100003A	08/03/2011	06:34	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100006A	07/29/2011	13:30	Olivia I Santiago	1

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Sample Description: SL-178-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-178-SA6-SS-0.0-0.5

LLI Sample # SW 6349718
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:40

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0309 SDG#: DE203-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112100003A	07/29/2011 14:00	Wanda F Oswald	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090026A	07/28/2011 20:30	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112065708003	07/30/2011 11:24	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112065708003	07/30/2011 11:24	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112065708003	07/30/2011 11:24	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112065708003	07/30/2011 11:24	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112065708003	07/30/2011 11:24	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112065708003	07/30/2011 11:24	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112065708003	07/30/2011 11:24	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112065708003	07/30/2011 11:24	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112065708003	07/30/2011 11:24	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112065708003	07/30/2011 11:24	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112065708003	07/30/2011 11:24	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112065708003	07/30/2011 11:24	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112065708003	07/30/2011 11:24	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112065708003	07/30/2011 11:24	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112061026002A	07/28/2011 14:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112061026002A	07/28/2011 14:38	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112061026002D	07/28/2011 14:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112061026002A	07/28/2011 14:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112061026002A	07/28/2011 14:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112061026002A	07/28/2011 14:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112061026002A	07/28/2011 14:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112061026002A	07/28/2011 14:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112061026002A	07/28/2011 14:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112061026002C	07/28/2011 14:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112061026002A	07/28/2011 14:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112061026002B	07/28/2011 14:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112061026002A	07/28/2011 14:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112061026002A	07/28/2011 14:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112061026002A	07/28/2011 14:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112061026002A	07/28/2011 14:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112045711003	07/26/2011 09:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112065708003	07/25/2011 22:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112061026002	07/25/2011 23:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112045711003	07/25/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209621201A	07/31/2011 09:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209495201A	07/30/2011 18:56	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243201A	08/03/2011 20:12	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209621201A	07/28/2011 08:00	William L Hamaker Jr	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-178-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-178-SA6-SS-0.0-0.5

LLI Sample # SW 6349718
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:40

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0309 SDG#: DE203-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209495201A	07/28/2011 22:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039401A	08/01/2011 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243201A	08/02/2011 09:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401B	07/26/2011 20:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-185-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-185-SA6-SS-0.0-0.5

LLI Sample # SW 6349719
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:21

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0310 SDG#: DE203-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	70	U	70	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-185-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-185-SA6-SS-0.0-0.5

LLI Sample # SW 6349719
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:21

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0310 SDG#: DE203-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.82	J	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	2.1		0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	2.4		0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	17	J	6.3	19		1
10138	Fluoranthene	206-44-0	1.4	J	0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	1.7	J	0.70	1.7		1
10138	Pyrene	129-00-0	1.3	J	0.70	1.7		1
	The following compounds were detected in the method blank at the respective concentrations of: bis(2-ethylhexyl)phthalate 10 ug/kg These blank values were not subtracted from the analytical results.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4		1
10401	2,4-DB	94-82-6	0.65	U	0.65	1.8		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8		1
10401	MCPA	94-74-6	79	U	79	260		1
10401	MCPP (Mecoprop)	93-65-2	1,000		78	260		1
10401	2,4,5-T	93-76-5	0.22		0.086	0.18		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-185-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-185-SA6-SS-0.0-0.5

LLI Sample # SW 6349719
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:21

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0310 SDG#: DE203-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
The LCS data for MCPP is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that MCPP and 2,4,5-T were not detected in the reextract.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17		1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17		1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6		1
01363	p,p-DDD	72-54-8	0.099	U	0.099	0.36		1
01363	p,p-DDE	72-55-9	0.069	U	0.069	0.36		1
01363	p,p-DDT	50-29-3	0.38		0.069	0.36		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17		1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.36		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36		1
01363	Endrin	72-20-8	0.085	U	0.085	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.076	U	0.076	0.36		1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36		1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17		1
01363	Methoxychlor	72-43-5	0.99	U	0.99	1.7		1
01363	Mirex	2385-85-5	0.069	U	0.069	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9		1

The TCX surrogate recovery is outside the lower QC limit for the Laboratory Control Spike. Since the analyte recoveries are within the QC limits, the data is reported.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	4.0		1.0	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-185-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-185-SA6-SS-0.0-0.5

LLI Sample # SW 6349719
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:21

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0310 SDG#: DE203-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	3.0		0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,500		6.33	20.9		1
07914	Boron	7440-42-8	3.98	J	0.377	5.23		1
01650	Calcium	7440-70-2	2,610		2.62	20.9		1
01654	Iron	7439-89-6	20,000		2.73	20.9		1
01656	Lithium	7439-93-2	23.9		0.65	2.1		1
01657	Magnesium	7439-95-4	4,900		0.460	10.5		1
06958	Manganese	7439-96-5	286		0.0377	0.523		1
10145	Phosphorus	7723-14-0	427		0.366	10.5		1
01662	Potassium	7440-09-7	3,000		11.8	52.3		1
01667	Sodium	7440-23-5	76.5	J	6.22	105		1
07968	Strontium	7440-24-6	11.4		0.0262	0.523		1
06969	Tin	7440-31-5	3.10	J	0.335	10.5		1
06970	Titanium	7440-32-6	1,100		0.0743	1.05		1
10146	Zirconium	7440-67-7	3.41	J	0.481	5.23		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.219		0.0744	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.83		0.0805	0.402		2
06126	Barium	7440-39-3	159		0.107	0.402		2
06127	Beryllium	7440-41-7	0.671		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.362		0.0443	0.101		2
06131	Chromium	7440-47-3	22.1		0.121	0.402		2
06132	Cobalt	7440-48-4	7.09		0.0201	0.101		2
06133	Copper	7440-50-8	20.2		0.0805	0.402		2
06135	Lead	7439-92-1	17.9		0.0103	0.201		2
06138	Molybdenum	7439-98-7	0.884		0.0503	0.101		2
06139	Nickel	7440-02-0	16.1		0.101	0.402		2
06141	Selenium	7782-49-2	0.173	J	0.0583	0.402		2
06142	Silver	7440-22-4	0.0682	J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.332		0.0302	0.101		2
06148	Vanadium	7440-62-2	41.7		0.0221	0.101		2
06149	Zinc	7440-66-6	95.1		0.563	3.02		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0239	J	0.0073	0.104		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-185-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-185-SA6-SS-0.0-0.5

LLI Sample # SW 6349719
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:21

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0310 SDG#: DE203-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48	J	0.21	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.10		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11209SLC026	08/11/2011 03:48	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11209SLB026	08/02/2011 10:28	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11209SLB026	07/29/2011 11:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11209SLC026	07/29/2011 06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090026A	08/03/2011 13:21	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100006A	08/20/2011 23:45	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112100003A	08/03/2011 06:53	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100006A	07/29/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112100003A	07/29/2011 14:00	Wanda F Oswald	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090026A	07/28/2011 20:30	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112065708003	07/30/2011 11:28	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112065708003	07/30/2011 11:28	Damary Valentin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-185-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-185-SA6-SS-0.0-0.5

LLI Sample # SW 6349719
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:21

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0310 SDG#: DE203-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	112065708003	07/30/2011 11:28	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112065708003	07/30/2011 11:28	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112065708003	07/30/2011 11:28	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112065708003	07/30/2011 11:28	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112065708003	07/30/2011 11:28	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112065708003	07/30/2011 11:28	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112065708003	07/30/2011 11:28	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112065708003	07/30/2011 11:28	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112065708003	07/30/2011 11:28	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112065708003	07/30/2011 11:28	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112065708003	07/30/2011 11:28	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112065708003	07/30/2011 11:28	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112061026002A	07/28/2011 14:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112061026002A	07/28/2011 14:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112061026002D	07/28/2011 14:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112061026002A	07/28/2011 14:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112061026002A	07/28/2011 14:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112061026002A	07/28/2011 14:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112061026002A	07/28/2011 14:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112061026002A	07/28/2011 14:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112061026002A	07/28/2011 14:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112061026002C	07/28/2011 14:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112061026002A	07/28/2011 14:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112061026002B	07/28/2011 14:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112061026002A	07/28/2011 14:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112061026002A	07/28/2011 14:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112061026002A	07/28/2011 14:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112061026002A	07/28/2011 14:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112045711003	07/26/2011 09:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112065708003	07/25/2011 22:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112061026002	07/25/2011 23:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112045711003	07/25/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209621201A	07/31/2011 10:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209495201A	07/30/2011 19:19	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243201A	08/03/2011 20:27	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209621201A	07/28/2011 08:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209495201A	07/28/2011 22:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039401B	08/01/2011 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243201A	08/02/2011 09:40	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-185-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-185-SA6-SS-0.0-0.5

LLI Sample # SW 6349719
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:21

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0310 SDG#: DE203-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401B	07/26/2011 20:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-301-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-301-SA6-SS-0.0-0.5

LLI Sample # SW 6349720
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:01

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0311 SDG#: DE203-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	34	J	17	170		1
04688	Aniline	62-53-3	170	U	170	510		1
04688	Anthracene	120-12-7	87	J	17	170		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	270		17	170		1
04688	Benzo(a)pyrene	50-32-8	180		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	260		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	90	J	17	170		1
04688	Benzo(k)fluoranthene	207-08-9	120	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	62	J	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Chrysene	218-01-9	250		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	34	J	17	170		1
04688	Dibenzofuran	132-64-9	22	J	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Fluoranthene	206-44-0	480		17	170		1
04688	Fluorene	86-73-7	27	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	93	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1

3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-301-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-301-SA6-SS-0.0-0.5

LLI Sample # SW 6349720
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:01

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0311 SDG#: DE203-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenanthrene	85-01-8	340		17	170		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	400		17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Butylbenzylphthalate	85-68-7	8.4	J	6.0	18		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	41		6.0	18		1
10138	1-Methylnaphthalene	90-12-0	0.69	J	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.88	J	0.67	1.7		1
10138	Naphthalene	91-20-3	2.2		0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	7.3	J	6.0	18		1
	The following compounds were detected in the method blank at the respective concentrations of: bis(2-ethylhexyl)phthalate 10 ug/kg These blank values were not subtracted from the analytical results.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.8	J	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	8.7	U	8.7	8.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.14	U	0.14	0.17		1

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Sample Description: SL-301-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-301-SA6-SS-0.0-0.5

LLI Sample # SW 6349720
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:01

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0311 SDG#: DE203-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised for 2,4,5-T and 2,4-DB due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.22		0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.047	J	0.035	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.5		1
01363	p,p-DDD	72-54-8	0.087	U	0.087	0.35		1
01363	p,p-DDE	72-55-9	0.28	J	0.067	0.35		1
01363	p,p-DDT	50-29-3	0.91		0.067	0.35		1
01363	Delta BHC	319-86-8	0.049	U	0.049	0.17		1
01363	Dieldrin	60-57-1	0.18	U	0.18	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.24	U	0.24	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.42	U	0.42	0.42		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.094	J	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.066	J	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.60	U	0.60	0.60		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

The TCX surrogate recovery is outside the lower QC limit for the Laboratory Control Spike. Since the analyte recoveries are within the QC limits, the data is reported.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The surrogate data in the original extract is outside the QC limits.
Results from the reextraction are also outside the QC limits, indicating possible matrix interference.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	5.6		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1

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Sample Description: SL-301-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-301-SA6-SS-0.0-0.5

LLI Sample # SW 6349720
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:01

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0311 SDG#: DE203-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	6.4		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,800		5.92	19.6		1
07914	Boron	7440-42-8	6.15		0.352	4.89		1
01650	Calcium	7440-70-2	3,720		2.45	19.6		1
01654	Iron	7439-89-6	18,900		2.55	19.6		1
01656	Lithium	7439-93-2	23.1		0.61	2.0		1
01657	Magnesium	7439-95-4	4,340		0.430	9.78		1
06958	Manganese	7439-96-5	338		0.0352	0.489		1
10145	Phosphorus	7723-14-0	555		0.342	9.78		1
01662	Potassium	7440-09-7	4,050		11.1	48.9		1
01667	Sodium	7440-23-5	62.2	J	5.82	97.8		1
07968	Strontium	7440-24-6	25.5		0.0245	0.489		1
06969	Tin	7440-31-5	3.25	J	0.313	9.78		1
06970	Titanium	7440-32-6	1,030		0.0694	0.978		1
10146	Zirconium	7440-67-7	3.63	J	0.450	4.89		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.278		0.0724	0.196		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	13.5		0.0783	0.391		2
06126	Barium	7440-39-3	128		0.104	0.391		2
06127	Beryllium	7440-41-7	0.653		0.0157	0.0978		2
06128	Cadmium	7440-43-9	0.378		0.0430	0.0978		2
06131	Chromium	7440-47-3	25.5		0.117	0.391		2
06132	Cobalt	7440-48-4	15.4		0.0196	0.0978		2
06133	Copper	7440-50-8	31.3		0.0783	0.391		2
06135	Lead	7439-92-1	15.6		0.010	0.196		2
06138	Molybdenum	7439-98-7	2.13		0.0489	0.0978		2
06139	Nickel	7440-02-0	17.0		0.0978	0.391		2
06141	Selenium	7782-49-2	0.157	J	0.0567	0.391		2
06142	Silver	7440-22-4	0.0606	J	0.0139	0.0978		2
06145	Thallium	7440-28-0	0.274		0.0293	0.0978		2
06148	Vanadium	7440-62-2	57.8		0.0215	0.0978		2
06149	Zinc	7440-66-6	106		0.548	2.93		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0206	J	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-301-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-301-SA6-SS-0.0-0.5

LLI Sample # SW 6349720
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:01

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0311 SDG#: DE203-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.5		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.14		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	1.7		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11209SLC026	08/11/2011	04:13	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11209SLB026	08/02/2011	11:00	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11209SLB026	07/29/2011	11:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11209SLC026	07/29/2011	06:45	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112090026A	08/03/2011	13:48	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112100006A	08/21/2011	00:00	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112100003A	08/03/2011	07:11	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112100006A	07/29/2011	13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112100003A	07/29/2011	14:00	Wanda F Oswald	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112090026A	07/28/2011	20:30	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112065708003	07/30/2011	11:31	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112065708003	07/30/2011	11:31	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112065708003	07/30/2011	11:31	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112065708003	07/30/2011	11:31	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112065708003	07/30/2011	11:31	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112065708003	07/30/2011	11:31	Damary Valentin	1

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Sample Description: SL-301-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-301-SA6-SS-0.0-0.5

LLI Sample # SW 6349720
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:01

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0311 SDG#: DE203-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	112065708003	07/30/2011 11:31	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112065708003	07/30/2011 11:31	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112065708003	07/30/2011 11:31	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112065708003	07/30/2011 11:31	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112065708003	07/30/2011 11:31	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112065708003	07/30/2011 11:31	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112065708003	07/30/2011 11:31	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112065708003	07/30/2011 11:31	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112061026002A	07/28/2011 14:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112061026002A	07/28/2011 14:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112061026002D	07/28/2011 14:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112061026002A	07/28/2011 14:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112061026002A	07/28/2011 14:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112061026002A	07/28/2011 14:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112061026002A	07/28/2011 14:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112061026002A	07/28/2011 14:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112061026002A	07/28/2011 14:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112061026002C	07/28/2011 14:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112061026002A	07/28/2011 14:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112061026002B	07/28/2011 14:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112061026002A	07/28/2011 14:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112061026002A	07/28/2011 14:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112061026002A	07/28/2011 14:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112061026002A	07/28/2011 14:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112045711003	07/26/2011 10:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112065708003	07/25/2011 22:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112061026002	07/25/2011 23:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112045711003	07/25/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209621201B	07/31/2011 10:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209495201B	07/30/2011 19:42	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243201A	08/03/2011 20:34	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209621201B	07/28/2011 08:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209495201B	07/28/2011 22:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039401B	08/01/2011 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243201A	08/02/2011 09:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401B	07/26/2011 20:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-084-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA6-SB-4.0-5.0

LLI Sample # SW 6349721
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:35

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0312 SDG#: DE203-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	11		7.1	8.5		0.98
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.98
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.98
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.98
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.98
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.98
06192	Bromomethane	74-83-9	0.27	U	0.27	4.2		0.98
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.98
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.98
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.98
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.98
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.98
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.98
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.98
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.98
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.98
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.98
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.98
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.98
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.98
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.98
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.98
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.98
06192	1,2-Dichloroethane	107-06-2	2.5	J	0.16	4.2		0.98
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.98
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.98
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.98
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.98
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.98
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.98
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.98
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.98
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.98
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.98
06192	Methylene Chloride	75-09-2	1.3	J	0.25	4.2		0.98
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.98

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Sample Description: SL-084-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA6-SB-4.0-5.0

LLI Sample # SW 6349721
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:35

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0312 SDG#: DE203-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.98
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.98
06192	Toluene	108-88-3	0.09	J	0.08	4.2		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.98
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.98
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.98
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.98
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.98
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.98
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		22.28
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Anthracene	120-12-7	35	J	18	180		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	120	J	18	180		1
04688	Benzo(a)pyrene	50-32-8	110	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	130	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	78	J	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	72	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	30	J	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Chrysene	218-01-9	120	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1

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Sample Description: SL-084-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA6-SB-4.0-5.0

LLI Sample # SW 6349721
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:35

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0312 SDG#: DE203-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Fluoranthene	206-44-0	240		18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	57	J	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenanthrene	85-01-8	200		18	180		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	190		18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	2.6		0.72	1.8		1
10138	Acenaphthylene	208-96-8	1.0	J	0.36	1.8		1

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Sample Description: SL-084-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA6-SB-4.0-5.0

LLI Sample # SW 6349721
LLI Group # 1257182
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E0312 SDG#: DE203-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Dibenz(a,h)anthracene	53-70-3	4.7		0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	24		6.5	19		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	2.0		0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	2.6		0.72	1.8		1
10138	Naphthalene	91-20-3	2.9		0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 10 ug/kg
These blank values were not subtracted from the analytical results.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	2.0	U	2.0	9.8		227.27

Reporting limits were raised due to sample foaming.

Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	4.0	J	2.3	5.4		1

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.4	U	5.4	18		5
10225	Aroclor 5442	12642-23-8	5.4	U	5.4	18		5
10225	Aroclor 5460	11126-42-4	130		5.4	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.2		5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.2		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.2		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.2		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.2		5
10225	PCB-1254	11097-69-1	110		1.8	9.2		5
10225	PCB-1260	11096-82-5	18		2.1	9.2		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.2		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.2		5

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	580		110	540		1

The sample was analyzed in hold with bracketing calibration check standards that were outside the method limits. The blank and sample had reportable recoveries for target compounds. The sample was re-extracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. The re-extract results are reported.

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Sample Description: SL-084-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA6-SB-4.0-5.0

LLI Sample # SW 6349721
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Collected: 07/19/2011 09:35

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E0312 SDG#: DE203-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	11	U	11	33		25
10199	EFH (C15-C20)	n.a.	11	U	11	33		25
10199	EFH (C21-C30)	n.a.	100		11	33		25
10199	EFH (C30 - C40)	n.a.	350		11	33		25
10199	EFH (C8-C11)	n.a.	11	U	11	33		25
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,000		6.49	21.5		1
07914	Boron	7440-42-8	6.06		0.386	5.36		1
01650	Calcium	7440-70-2	27,400		2.68	21.5		1
01654	Iron	7439-89-6	62,900		14.0	107		5
01656	Lithium	7439-93-2	18.2		0.67	2.1		1
01657	Magnesium	7439-95-4	5,020		0.472	10.7		1
06958	Manganese	7439-96-5	299		0.0386	0.536		1
10145	Phosphorus	7723-14-0	445		0.375	10.7		1
01662	Potassium	7440-09-7	2,670		12.1	53.6		1
01667	Sodium	7440-23-5	383		6.38	107		1
07968	Strontium	7440-24-6	57.0		0.0268	0.536		1
06969	Tin	7440-31-5	3.69	J	0.343	10.7		1
06970	Titanium	7440-32-6	1,010		0.0762	1.07		1
10146	Zirconium	7440-67-7	7.53		0.493	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.585		0.0778	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	44.9		0.0841	0.421		2
06126	Barium	7440-39-3	94.7		0.111	0.421		2
06127	Beryllium	7440-41-7	0.537		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.302		0.0463	0.105		2
06131	Chromium	7440-47-3	22.5		0.126	0.421		2
06132	Cobalt	7440-48-4	54.0		0.0210	0.105		2
06133	Copper	7440-50-8	75.8		0.0841	0.421		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-084-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA6-SB-4.0-5.0

LLI Sample # SW 6349721
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:35

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0312 SDG#: DE203-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	8.19		0.0107	0.210		2
06138	Molybdenum	7439-98-7	3.05		0.0526	0.105		2
06139	Nickel	7440-02-0	14.1		0.105	0.421		2
06141	Selenium	7782-49-2	0.236	J	0.0610	0.421		2
06142	Silver	7440-22-4	0.102	J	0.0149	0.105		2
06145	Thallium	7440-28-0	0.185		0.0316	0.105		2
06148	Vanadium	7440-62-2	40.9		0.0231	0.105		2
06149	Zinc	7440-66-6	74.5		0.589	3.16		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	5.20		0.0734	1.04		10
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.88	U	0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.59	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	11.7		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.7		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-084-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B112011AA	07/20/2011 21:17	Sara E Johnson	0.98

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Sample Description: SL-084-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA6-SB-4.0-5.0

LLI Sample # SW 6349721
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:35

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0312 SDG#: DE203-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112062AA	07/25/2011 16:05	Jason M Long	22.28
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201120124968	07/20/2011 18:35	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201120124968	07/20/2011 18:45	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201120124968	07/20/2011 18:46	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201120124968	07/20/2011 18:32	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11209SLC026	08/11/2011 04:38	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11209SLB026	08/02/2011 11:31	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11209SLB026	07/29/2011 11:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11209SLC026	07/29/2011 06:45	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11206A34A	07/25/2011 13:37	Marie D John	227.27
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120124968	07/20/2011 18:32	Lois E Hiltz	n.a.
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112130022A	08/03/2011 20:38	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112100003A	08/03/2011 07:30	Sarah M Snyder	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112100003A	07/29/2011 14:00	Wanda F Oswald	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112130022A	08/02/2011 10:45	Maria Davenport	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112070029A	07/27/2011 15:59	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112010013A	07/21/2011 17:47	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112100010A	08/02/2011 18:58	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112100019A	08/01/2011 17:02	Tracy A Cole	25
11238	EFH Extraction - Soils	SW-846 3550B	1	112100019A	07/30/2011 10:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112100010A	07/29/2011 18:10	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112070029A	07/26/2011 22:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112010013A	07/21/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112065708003	07/30/2011 11:35	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112065708003	07/30/2011 11:35	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112065708003	07/30/2011 11:35	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112065708003	08/01/2011 10:54	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	112065708003	07/30/2011 11:35	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112065708003	07/30/2011 11:35	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112065708003	07/30/2011 11:35	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112065708003	07/30/2011 11:35	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112065708003	07/30/2011 11:35	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112065708003	07/30/2011 11:35	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112065708003	07/30/2011 11:35	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112065708003	07/30/2011 11:35	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112065708003	07/30/2011 11:35	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112065708003	07/30/2011 11:35	Damary Valentin	1

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Sample Description: SL-084-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA6-SB-4.0-5.0

LLI Sample # SW 6349721
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:35

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0312 SDG#: DE203-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112061026002A	07/28/2011 14:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112061026002A	07/28/2011 14:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112061026002D	07/28/2011 14:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112061026002A	07/28/2011 14:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112061026002A	07/28/2011 14:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112061026002A	07/28/2011 14:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112061026002A	07/28/2011 14:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112061026002A	07/28/2011 14:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112061026002A	07/28/2011 14:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112061026002C	07/28/2011 14:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112061026002A	07/28/2011 14:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112061026002B	07/28/2011 14:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112061026002A	07/28/2011 14:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112061026002A	07/28/2011 14:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112061026002A	07/28/2011 14:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112061026002A	07/28/2011 14:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112045711003	07/26/2011 10:37	Damary Valentin	10
05708	SW SW846 ICP Digest	SW-846 3050B	1	112065708003	07/25/2011 22:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112061026002	07/25/2011 23:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112045711003	07/25/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209621201B	07/31/2011 11:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209495201B	07/30/2011 21:14	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243201A	08/03/2011 20:48	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209621201B	07/28/2011 08:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209495201B	07/28/2011 22:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039401B	08/01/2011 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243201A	08/02/2011 09:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401B	07/26/2011 20:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-084-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA6-SB-9.0-10.0

LLI Sample # SW 6349722
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:45

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0313 SDG#: DE203-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(b)fluoranthene	205-99-2	23	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Chrysene	218-01-9	21	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Fluoranthene	206-44-0	25	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-084-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA6-SB-9.0-10.0

LLI Sample # SW 6349722
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:45

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0313 SDG#: DE203-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	25	J	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.90	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	4.1		0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	4.3		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	3.0		0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	4.5		0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	39		6.4	19		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.7	J	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	6.1		0.71	1.8		1
	The following compounds were detected in the method blank at the respective concentrations of: bis(2-ethylhexyl)phthalate 10 ug/kg These blank values were not subtracted from the analytical results.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	2.1	U	2.1	11		244.14
	Reporting limits were raised due to sample foaming.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.4	U	5.4	18		5
10225	Aroclor 5442	12642-23-8	5.4	U	5.4	18		5
10225	Aroclor 5460	11126-42-4	100		5.4	18		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-084-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA6-SB-9.0-10.0

LLI Sample # SW 6349722
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:45

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0313 SDG#: DE203-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.1		5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.1		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.1		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.1		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.1		5
10225	PCB-1254	11097-69-1	140		1.8	9.1		5
10225	PCB-1260	11096-82-5	19		2.1	9.1		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.1		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.1		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	460	J	110	540		1
The sample was analyzed in hold with bracketing calibration check standards that were outside the method limits. The blank and sample had reportable recoveries for target compounds. The sample was re-extracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. The re-extract results are reported.								
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	11	U	11	32		25
10199	EFH (C15-C20)	n.a.	72		11	32		25
10199	EFH (C21-C30)	n.a.	120		11	32		25
10199	EFH (C30 - C40)	n.a.	310		11	32		25
10199	EFH (C8-C11)	n.a.	11	U	11	32		25
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,800		6.51	21.5		1
07914	Boron	7440-42-8	2.55	J	0.387	5.38		1
01650	Calcium	7440-70-2	13,300		2.69	21.5		1
01654	Iron	7439-89-6	83,500		14.0	108		5
01656	Lithium	7439-93-2	17.3		0.67	2.2		1
01657	Magnesium	7439-95-4	4,490		0.473	10.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-084-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA6-SB-9.0-10.0

LLI Sample # SW 6349722
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:45

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0313 SDG#: DE203-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	328		0.0387	0.538		1
10145	Phosphorus	7723-14-0	335		0.376	10.8		1
01662	Potassium	7440-09-7	1,970		12.2	53.8		1
01667	Sodium	7440-23-5	327		6.40	108		1
07968	Strontium	7440-24-6	27.8		0.0269	0.538		1
06969	Tin	7440-31-5	3.52	J	0.344	10.8		1
06970	Titanium	7440-32-6	933		0.0763	1.08		1
10146	Zirconium	7440-67-7	6.06		0.495	5.38		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.22		0.0765	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	44.1		0.0827	0.414		2
06126	Barium	7440-39-3	109		0.110	0.414		2
06127	Beryllium	7440-41-7	0.623		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.269		0.0455	0.103		2
06131	Chromium	7440-47-3	27.0		0.124	0.414		2
06132	Cobalt	7440-48-4	60.8		0.0207	0.103		2
06133	Copper	7440-50-8	65.7		0.0827	0.414		2
06135	Lead	7439-92-1	11.8		0.0105	0.207		2
06138	Molybdenum	7439-98-7	2.76		0.0517	0.103		2
06139	Nickel	7440-02-0	17.8		0.103	0.414		2
06141	Selenium	7782-49-2	0.170	J	0.0600	0.414		2
06142	Silver	7440-22-4	0.0927	J	0.0147	0.103		2
06145	Thallium	7440-28-0	0.227		0.0310	0.103		2
06148	Vanadium	7440-62-2	49.4		0.0227	0.103		2
06149	Zinc	7440-66-6	95.4		0.579	3.10		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.210		0.0074	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.86	U	0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.70	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	11.1		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-084-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA6-SB-9.0-10.0

LLI Sample # SW 6349722
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:45

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0313 SDG#: DE203-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	7.0	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-084-SA6-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11209SLC026	08/11/2011 05:02	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11209SLB026	08/02/2011 12:03	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11209SLB026	07/29/2011 11:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11209SLC026	07/29/2011 06:45	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11206A34A	07/25/2011 14:17	Marie D John	244.14
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120124968	07/20/2011 18:36	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112100003A	08/03/2011 07:48	Sarah M Snyder	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112100003A	07/29/2011 14:00	Wanda F Oswald	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112070029A	07/27/2011 16:14	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112010013A	07/21/2011 18:00	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112100010A	08/02/2011 13:01	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112100019A	08/01/2011 17:26	Tracy A Cole	25
11238	EFH Extraction - Soils	SW-846 3550B	1	112100019A	07/30/2011 10:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112100010A	07/29/2011 18:10	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112070029A	07/26/2011 22:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112010013A	07/21/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112065708003	07/30/2011 11:39	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112065708003	07/30/2011 11:39	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112065708003	07/30/2011 11:39	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112065708003	08/01/2011 10:58	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	112065708003	07/30/2011 11:39	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112065708003	07/30/2011 11:39	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112065708003	07/30/2011 11:39	Damary Valentin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-084-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA6-SB-9.0-10.0

LLI Sample # SW 6349722
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:45

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0313 SDG#: DE203-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112065708003	07/30/2011 11:39	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112065708003	07/30/2011 11:39	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112065708003	07/30/2011 11:39	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112065708003	07/30/2011 11:39	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112065708003	07/30/2011 11:39	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112065708003	07/30/2011 11:39	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112065708003	07/30/2011 11:39	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112061026002A	07/28/2011 14:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112061026002A	07/28/2011 14:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112061026002D	07/28/2011 14:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112061026002A	07/28/2011 14:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112061026002A	07/28/2011 14:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112061026002A	07/28/2011 14:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112061026002A	07/28/2011 14:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112061026002A	07/28/2011 14:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112061026002A	07/28/2011 14:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112061026002C	07/28/2011 14:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112061026002A	07/28/2011 14:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112061026002B	07/28/2011 14:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112061026002A	07/28/2011 14:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112061026002A	07/28/2011 14:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112061026002A	07/28/2011 14:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112061026002A	07/28/2011 14:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112045711003	07/26/2011 10:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112065708003	07/25/2011 22:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112061026002	07/25/2011 23:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112045711003	07/25/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209621201B	07/31/2011 11:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209495201B	07/30/2011 21:37	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243201A	08/03/2011 21:10	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209621201B	07/28/2011 08:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209495201B	07/28/2011 22:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039401B	08/01/2011 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243201A	08/02/2011 09:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401B	07/26/2011 20:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-085-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA6-SB-4.0-5.0

LLI Sample # SW 6349723
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:10

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0314 SDG#: DE203-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3	J	6.5	7.7		0.89
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.89
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.89
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.89
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	7.7		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.89
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.9		0.89
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.9		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.89
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.89
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.9		0.89
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.9		0.89
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.89
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.89
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9		0.89
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.9		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.89
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.89
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.9		0.89
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.89
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.89
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.9		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.89
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.89
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.9		0.89
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.7		0.89
06192	Methylene Chloride	75-09-2	1.3	J	0.23	3.9		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.89

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Sample Description: SL-085-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA6-SB-4.0-5.0

LLI Sample # SW 6349723
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:10

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0314 SDG#: DE203-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.89
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.89
06192	Toluene	108-88-3	0.10	J	0.08	3.9		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.9		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.9		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.89
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.9		0.89
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.89
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.89
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.9		0.89
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		21.59
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(b)fluoranthene	205-99-2	20	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1

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Sample Description: SL-085-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA6-SB-4.0-5.0

LLI Sample # SW 6349723
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:10

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0314 SDG#: DE203-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Fluoranthene	206-44-0	20	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	19	J	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.42	J	0.36	1.8		1
10138	Anthracene	120-12-7	0.63	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	7.5		0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	10		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	4.1		0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	5.5		0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	7.3		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.92	J	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.5	20		1

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Sample Description: SL-085-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA6-SB-4.0-5.0

LLI Sample # SW 6349723
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:10

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0314 SDG#: DE203-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.7		0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	1.5	J	0.72	1.8		1
	The following compounds were detected in the method blank at the respective concentrations of: bis(2-ethylhexyl)phthalate 10 ug/kg These blank values were not subtracted from the analytical results.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.44
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	15		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	4.5		0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
	The sample was analyzed in hold with bracketing calibration check standards that were outside the method limits. The blank and sample had reportable recoveries for target compounds. The sample was re-extracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. The re-extract results are reported.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1

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Sample Description: SL-085-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA6-SB-4.0-5.0

LLI Sample # SW 6349723
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:10

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0314 SDG#: DE203-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.5		5
10199	EFH (C15-C20)	n.a.	2.2	U	2.2	6.5		5
10199	EFH (C21-C30)	n.a.	16		2.2	6.5		5
10199	EFH (C30 - C40)	n.a.	54		2.2	6.5		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.5		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,400		6.52	21.5		1
07914	Boron	7440-42-8	4.93	J	0.388	5.39		1
01650	Calcium	7440-70-2	3,800		2.69	21.5		1
01654	Iron	7439-89-6	32,900		14.1	108		5
01656	Lithium	7439-93-2	25.7		0.67	2.2		1
01657	Magnesium	7439-95-4	5,310		0.474	10.8		1
06958	Manganese	7439-96-5	329		0.0388	0.539		1
10145	Phosphorus	7723-14-0	402		0.377	10.8		1
01662	Potassium	7440-09-7	2,580		12.2	53.9		1
01667	Sodium	7440-23-5	131		6.41	108		1
07968	Strontium	7440-24-6	16.6		0.0269	0.539		1
06969	Tin	7440-31-5	3.16	J	0.345	10.8		1
06970	Titanium	7440-32-6	1,250		0.0765	1.08		1
10146	Zirconium	7440-67-7	4.25	J	0.496	5.39		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.206	J	0.0782	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.8		0.0845	0.423		2
06126	Barium	7440-39-3	95.6		0.112	0.423		2
06127	Beryllium	7440-41-7	0.667		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.159		0.0465	0.106		2
06131	Chromium	7440-47-3	22.7		0.127	0.423		2
06132	Cobalt	7440-48-4	13.1		0.0211	0.106		2
06133	Copper	7440-50-8	14.0		0.0845	0.423		2
06135	Lead	7439-92-1	8.15		0.0108	0.211		2
06138	Molybdenum	7439-98-7	1.69		0.0528	0.106		2
06139	Nickel	7440-02-0	16.0		0.106	0.423		2
06141	Selenium	7782-49-2	0.103	J	0.0613	0.423		2
06142	Silver	7440-22-4	0.0432	J	0.0150	0.106		2
06145	Thallium	7440-28-0	0.300		0.0317	0.106		2
06148	Vanadium	7440-62-2	46.7		0.0232	0.106		2
06149	Zinc	7440-66-6	70.6		0.592	3.17		2

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Sample Description: SL-085-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA6-SB-4.0-5.0

LLI Sample # SW 6349723
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:10

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0314 SDG#: DE203-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0381	J	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.86	U	0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.48		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-085-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B112011AA	07/20/2011 21:39	Sara E Johnson	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112062AA	07/25/2011 16:25	Jason M Long	21.59
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201120124968	07/20/2011 18:41	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201120124968	07/20/2011 18:46	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201120124968	07/20/2011 18:46	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201120124968	07/20/2011 18:39	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11209SLC026	08/11/2011 05:27	Jennifer R Riggs	1

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Sample Description: SL-085-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA6-SB-4.0-5.0

LLI Sample # SW 6349723
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:10

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0314 SDG#: DE203-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11209SLB026	08/02/2011 12:34	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11209SLB026	07/29/2011 11:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11209SLC026	07/29/2011 06:45	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11206A34A	07/25/2011 12:21	Marie D John	22.44
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120124968	07/20/2011 18:38	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112100003A	08/03/2011 08:07	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112100003A	07/29/2011 14:00	Wanda F Oswald	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112070029A	07/27/2011 16:29	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112010013A	07/21/2011 18:13	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112100010A	08/02/2011 13:45	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112100019A	08/03/2011 10:36	Tracy A Cole	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112100019A	07/30/2011 10:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112100010A	07/29/2011 18:10	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112070029A	07/26/2011 22:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112010013A	07/21/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112065708003	07/30/2011 11:42	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112065708003	07/30/2011 11:42	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112065708003	07/30/2011 11:42	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112065708003	08/01/2011 11:01	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	112065708003	07/30/2011 11:42	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112065708003	07/30/2011 11:42	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112065708003	07/30/2011 11:42	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112065708003	07/30/2011 11:42	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112065708003	07/30/2011 11:42	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112065708003	07/30/2011 11:42	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112065708003	07/30/2011 11:42	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112065708003	07/30/2011 11:42	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112065708003	07/30/2011 11:42	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112065708003	07/30/2011 11:42	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112061026002A	07/28/2011 14:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112061026002A	07/28/2011 14:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112061026002D	07/28/2011 14:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112061026002A	07/28/2011 14:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112061026002A	07/28/2011 14:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112061026002A	07/28/2011 14:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112061026002A	07/28/2011 14:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112061026002A	07/28/2011 14:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112061026002A	07/28/2011 14:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112061026002C	07/28/2011 14:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112061026002A	07/28/2011 14:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112061026002B	07/28/2011 14:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112061026002A	07/28/2011 14:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112061026002A	07/28/2011 14:59	Choon Y Tian	2

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Sample Description: SL-085-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA6-SB-4.0-5.0

LLI Sample # SW 6349723
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:10

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0314 SDG#: DE203-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	112061026002A	07/28/2011 14:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112061026002A	07/28/2011 14:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112045711003	07/26/2011 10:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112065708003	07/25/2011 22:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112061026002	07/25/2011 23:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112045711003	07/25/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209621201B	07/31/2011 11:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209495201B	07/30/2011 22:00	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243201A	08/03/2011 21:24	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209621201B	07/28/2011 08:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209495201B	07/28/2011 22:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039401B	08/01/2011 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243201A	08/02/2011 09:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401B	07/26/2011 20:29	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-085-SA6-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA6-SB-7.0-8.0

LLI Sample # SW 6349724
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:20

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0315 SDG#: DE203-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

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Sample Description: SL-085-SA6-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA6-SB-7.0-8.0

LLI Sample # SW 6349724
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:20

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0315 SDG#: DE203-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.85
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1

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Sample Description: SL-085-SA6-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA6-SB-7.0-8.0

LLI Sample # SW 6349724
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:20

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0315 SDG#: DE203-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	J	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
	The sample was analyzed in hold with bracketing calibration check standards that were outside the method limits. The blank and sample had reportable recoveries for target compounds. The sample was re-extracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. The re-extract results are reported.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,800		6.33	20.9		1
07914	Boron	7440-42-8	4.22	J	0.377	5.23		1
01650	Calcium	7440-70-2	10,200		2.62	20.9		1
01654	Iron	7439-89-6	26,800		2.73	20.9		1
01656	Lithium	7439-93-2	37.2		0.65	2.1		1
01657	Magnesium	7439-95-4	8,630		0.460	10.5		1
06958	Manganese	7439-96-5	368		0.0377	0.523		1
10145	Phosphorus	7723-14-0	508		0.366	10.5		1
01662	Potassium	7440-09-7	4,220		11.8	52.3		1
01667	Sodium	7440-23-5	176		6.23	105		1
07968	Strontium	7440-24-6	17.0		0.0262	0.523		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-085-SA6-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA6-SB-7.0-8.0

LLI Sample # SW 6349724
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:20

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0315 SDG#: DE203-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	3.33	J	0.335	10.5		1
06970	Titanium	7440-32-6	1,520		0.0743	1.05		1
10146	Zirconium	7440-67-7	3.72	J	0.481	5.23		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0956	J	0.0797	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.52		0.0862	0.431		2
06126	Barium	7440-39-3	134		0.114	0.431		2
06127	Beryllium	7440-41-7	0.598		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.117		0.0474	0.108		2
06131	Chromium	7440-47-3	28.3		0.129	0.431		2
06132	Cobalt	7440-48-4	8.99		0.0215	0.108		2
06133	Copper	7440-50-8	13.5		0.0862	0.431		2
06135	Lead	7439-92-1	5.27		0.0110	0.215		2
06138	Molybdenum	7439-98-7	0.564		0.0539	0.108		2
06139	Nickel	7440-02-0	20.2		0.108	0.431		2
06141	Selenium	7782-49-2	0.0940	J	0.0625	0.431		2
06142	Silver	7440-22-4	0.0414	J	0.0153	0.108		2
06145	Thallium	7440-28-0	0.365		0.0323	0.108		2
06148	Vanadium	7440-62-2	54.5		0.0237	0.108		2
06149	Zinc	7440-66-6	85.5		0.603	3.23		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075	U	0.0075	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.62		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-085-SA6-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA6-SB-7.0-8.0

LLI Sample # SW 6349724
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:20

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0315 SDG#: DE203-15

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-085-SA6-SB-7.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11209SLC026	08/11/2011 22:22	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11209SLB026	08/02/2011 13:06	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11209SLB026	07/29/2011 11:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11209SLC026	07/29/2011 06:45	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11206A34A	07/25/2011 12:57	Marie D John	23.85
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120124968	07/20/2011 18:42	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112100003A	08/03/2011 08:25	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112100003A	07/29/2011 14:00	Wanda F Oswald	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112070029A	07/27/2011 16:45	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112010013A	07/21/2011 18:26	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112100010A	08/02/2011 10:47	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112100019A	08/01/2011 14:13	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112100019A	07/30/2011 10:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112100010A	07/29/2011 18:10	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112070029A	07/26/2011 22:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112010013A	07/21/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112065708003	07/30/2011 11:53	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112065708003	07/30/2011 11:53	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112065708003	07/30/2011 11:53	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112065708003	07/30/2011 11:53	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112065708003	07/30/2011 11:53	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112065708003	07/30/2011 11:53	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112065708003	07/30/2011 11:53	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112065708003	07/30/2011 11:53	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112065708003	07/30/2011 11:53	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112065708003	07/30/2011 11:53	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112065708003	07/30/2011 11:53	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112065708003	07/30/2011 11:53	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112065708003	07/30/2011 11:53	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112065708003	07/30/2011 11:53	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112061026002A	07/28/2011 15:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112061026002A	07/28/2011 15:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112061026002D	07/28/2011 15:02	Choon Y Tian	2

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Analysis Report

Sample Description: SL-085-SA6-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA6-SB-7.0-8.0

LLI Sample # SW 6349724
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:20

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0315 SDG#: DE203-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	112061026002A	07/28/2011 15:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112061026002A	07/28/2011 15:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112061026002A	07/28/2011 15:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112061026002A	07/28/2011 15:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112061026002A	07/28/2011 15:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112061026002A	07/28/2011 15:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112061026002C	07/28/2011 15:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112061026002A	07/28/2011 15:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112061026002B	07/28/2011 15:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112061026002A	07/28/2011 15:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112061026002A	07/28/2011 15:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112061026002A	07/28/2011 15:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112061026002A	07/28/2011 15:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112045711003	07/26/2011 10:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112065708003	07/25/2011 22:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112061026002	07/25/2011 23:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112045711003	07/25/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11209621201B	07/31/2011 11:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209495201B	07/30/2011 22:23	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243201A	08/03/2011 21:32	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11209621201B	07/28/2011 08:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209495201B	07/28/2011 22:00	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039401B	08/01/2011 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243201A	08/02/2011 09:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401B	07/26/2011 20:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: TB-071911 Water
SSFL Area IV Collocated Soil Sampling
TB-071911

LLI Sample # WW 6349725
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:00

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0316 SDG#: DE203-16TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-071911 Water
SSFL Area IV Collocated Soil Sampling
TB-071911

LLI Sample # WW 6349725
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:00

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0316 SDG#: DE203-16TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y112062AA	07/25/2011 21:33	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112011AA	07/20/2011 12:19	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E112011AA	07/20/2011 12:19	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y112062AA	07/25/2011 21:33	Frank A Valla, Jr	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11206C20A	07/25/2011 23:04	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11206C20A	07/25/2011 23:04	Laura M Krieger	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: EB-SA6-SS-071911 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-071911

LLI Sample # WW 6349726
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:00

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0317 SDG#: DE203-17EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l		ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	6.81		0.491	0.981		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 2.04 ng/l. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was again detected in the method blank at 1.64 ng/l. N-Nitrosodimethylamine was also detected in the re-analysis of the sample at 4.11 ng/l. The data reported here is from the initial extraction of the sample.

The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.

The internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	59		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	29		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1

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Sample Description: EB-SA6-SS-071911 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-071911

LLI Sample # WW 6349726
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:00

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0317 SDG#: DE203-17EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	29		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	Tetralin	119-64-2	5	U	5	5		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.054		1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.054		1
10137	Anthracene	120-12-7	0.011	U	0.011	0.054		1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.054		1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.054		1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.054		1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.054		1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.054		1
10137	Butylbenzylphthalate	85-68-7	0.17	J	0.054	1.1		1
10137	Di-n-butylphthalate	84-74-2	0.23	J	0.054	1.1		1
10137	Chrysene	218-01-9	0.011	U	0.011	0.054		1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.054		1
10137	Diethylphthalate	84-66-2	0.054	U	0.054	1.1		1
10137	Dimethylphthalate	131-11-3	0.054	U	0.054	1.1		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.27	J	0.054	1.1		1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.054		1
10137	Fluorene	86-73-7	0.011	U	0.011	0.054		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.054		1
10137	1-Methylnaphthalene	90-12-0	0.011	U	0.011	0.054		1
10137	2-Methylnaphthalene	91-57-6	0.011	U	0.011	0.054		1
10137	Naphthalene	91-20-3	0.082		0.032	0.054		1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.054		1
10137	Di-n-octylphthalate	117-84-0	0.31	J	0.054	1.1		1
10137	Phenanthrene	85-01-8	0.032	U	0.032	0.054		1

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Sample Description: EB-SA6-SS-071911 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-071911

LLI Sample # WW 6349726
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:00

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0317 SDG#: DE203-17EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Pyrene	129-00-0	0.011	U	0.011	0.054		1
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate .14 ug/l di-n-octylphthalate .28 ug/l These blank values were not subtracted from the analytical results. Reporting limits were raised due to limited sample volume.							
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	1.1		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.15	U	0.15	0.48		1

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SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-071911

LLI Sample # WW 6349726
LLI Group # 1257182
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E0317 SDG#: DE203-17EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10407	Dalapon	75-99-0	0.24	U	0.24	1.2		1
10407	2,4-DB	94-82-6	0.29	U	0.29	0.96		1
10407	Dicamba	1918-00-9	0.076	U	0.076	0.29		1
10407	Dinoseb	88-85-7	0.096	U	0.096	0.48		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.15	U	0.15	0.48		1
10407	MCPA	94-74-6	290	U	290	960		1
10407	MCPP	93-65-2	48	U	48	190		1
10407	2,4,5-T	93-76-5	0.014	U	0.014	0.048		1
10407	2,4,5-TP	93-72-1	0.0096	U	0.0096	0.048		1
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	25b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0019	U	0.0019	0.0097		1
00177	Alpha BHC	319-84-6	0.0029	U	0.0029	0.0097		1
00177	Beta BHC	319-85-7	0.0028	U	0.0028	0.0097		1
00177	Gamma BHC - Lindane	58-89-9	0.0019	U	0.0019	0.0097		1
00177	Chlordane	57-74-9	0.12	U	0.12	0.48		1
00177	p,p-DDD	72-54-8	0.0048	U	0.0048	0.019		1
00177	p,p-DDE	72-55-9	0.0048	U	0.0048	0.019		1
00177	p,p-DDT	50-29-3	0.0048	U	0.0048	0.019		1
00177	Delta BHC	319-86-8	0.0028	U	0.0028	0.0097		1
00177	Dieldrin	60-57-1	0.0051	U	0.0051	0.019		1
00177	Endosulfan I	959-98-8	0.0042	U	0.0042	0.0097		1
00177	Endosulfan II	33213-65-9	0.015	U	0.015	0.019		1
00177	Endosulfan Sulfate	1031-07-8	0.0056	U	0.0056	0.019		1
00177	Endrin	72-20-8	0.0078	U	0.0078	0.019		1
00177	Endrin Aldehyde	7421-93-4	0.019	U	0.019	0.097		1
00177	Endrin Ketone	53494-70-5	0.0048	U	0.0048	0.019		1
00177	Heptachlor	76-44-8	0.0087	J	0.0025	0.0097		1
00177	Heptachlor Epoxide	1024-57-3	0.0022	U	0.0022	0.0097		1
00177	Methoxychlor	72-43-5	0.029	U	0.029	0.097		1
00177	Mirex	2385-85-5	0.082	U	0.082	0.24		1
00177	Toxaphene	8001-35-2	0.97	U	0.97	2.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.097	U	0.097	0.48		1
10227	Aroclor 5442	12642-23-8	0.097	U	0.097	0.48		1
10227	Aroclor 5460	11126-42-4	0.097	U	0.097	0.48		1
10227	PCB-1016	12674-11-2	0.097	U	0.097	0.48		1
10227	PCB-1221	11104-28-2	0.097	U	0.097	0.48		1
10227	PCB-1232	11141-16-5	0.19	U	0.19	0.48		1
10227	PCB-1242	53469-21-9	0.097	U	0.097	0.48		1
10227	PCB-1248	12672-29-6	0.097	U	0.097	0.48		1
10227	PCB-1254	11097-69-1	0.097	U	0.097	0.48		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.48		1
10227	PCB-1262	37324-23-5	0.19	U	0.19	0.48		1
10227	PCB-1268	11100-14-4	0.15	U	0.15	0.48		1

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Sample Description: EB-SA6-SS-071911 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-071911

LLI Sample # WW 6349726
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:00

Submitted: 07/20/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0317 SDG#: DE203-17EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.								
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	20	U	20	200		1
08278	Ethylene glycol	107-21-1	20	U	20	200		1
08278	Propylene glycol	57-55-6	20	U	20	200		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.076	U	0.076	0.24		1
10319	o-Terphenyl	84-15-1	0.076	U	0.076	0.24		1
10319	p-Terphenyl	92-94-4	0.076	U	0.076	0.24		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.62		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.62		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.62		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.62		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.62		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0801	U	0.0801	0.200		1
08014	Boron	7440-42-8	0.0038	J	0.0022	0.0500		1
01750	Calcium	7440-70-2	0.0705	U	0.0705	0.200		1
01754	Iron	7439-89-6	0.0141	U	0.0141	0.200		1
01756	Lithium	7439-93-2	0.0076	U	0.0076	0.0200		1
01757	Magnesium	7439-95-4	0.0067	U	0.0067	0.100		1
07058	Manganese	7439-96-5	0.00044	U	0.00044	0.0050		1
10143	Phosphorus	7723-14-0	0.0047	U	0.0047	0.100		1
01762	Potassium	7440-09-7	0.0874	U	0.0874	0.500		1
01767	Sodium	7440-23-5	0.0647	U	0.0647	1.00		1
08068	Strontium	7440-24-6	0.00037	J	0.00022	0.0050		1
07069	Tin	7440-31-5	0.0043	U	0.0043	0.0200		1
07070	Titanium	7440-32-6	0.00046	U	0.00046	0.0100		1
10144	Zirconium	7440-67-7	0.0042	U	0.0042	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00042	U	0.00042	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00069	U	0.00069	0.0020		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB-SA6-SS-071911 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-071911

LLI Sample # WW 6349726
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:00

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0317 SDG#: DE203-17EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000080 U	0.000080	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00027 U	0.00027	0.0020		1
06042	Silver	7440-22-4	0.000098 U	0.000098	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00018 U	0.00018	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000026 U	0.000026	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	17b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.6	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	15b NDMA by 1625C	EPA 1625C	1	11207WAA026	08/09/2011 15:53	Matthew S Woods	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB-SA6-SS-071911 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-071911

LLI Sample # WW 6349726
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:00

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0317 SDG#: DE203-17EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11204WAC026	08/13/2011 14:16	Mark A Clark	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11206WAC026	07/30/2011 10:40	Brian K Graham	1
00813	BNA Water Extraction	SW-846 3510C	1	11204WAC026	07/24/2011 20:30	Nicholas W Shroyer	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11206WAC026	07/25/2011 18:15	Nicholas W Shroyer	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11207WAA026	07/26/2011 14:55	Wanda F Oswald	1
10131	16b Energetics by 8330A	SW-846 8330A	1	112070006A	07/28/2011 22:54	James H Place	1
04144	25b Formaldehyde 8315A	SW-846 8315A	1	112010002A	07/21/2011 04:25	James H Place	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	112070028A	07/28/2011 11:48	Anita M Dale	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	112070016A	07/27/2011 22:35	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	112070015A	07/29/2011 05:03	Sarah M Snyder	1
11117	PCB Waters Extraction	SW-846 3510C	1	112070015A	07/26/2011 15:30	JoElla L Rice	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	112070016A	07/26/2011 15:30	JoElla L Rice	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	112070028A	07/26/2011 21:00	Elaine F Stoltzfus	1
01013	Formaldehyde Extraction	SW-846 8315A	1	112010002A	07/20/2011 14:00	Kelli M Barto	1
11122	Energetics Extraction	SW-846 8330	1	112070006A	07/26/2011 17:15	Kelli M Barto	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	112090041A	07/29/2011 05:20	Tracy A Cole	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	112020001A	07/22/2011 13:23	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	112020037A	07/28/2011 17:30	Heather E Williams	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020035A	07/23/2011 19:08	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	112020035A	07/22/2011 16:45	JoElla L Rice	1
10304	Terphenyls water prep	SW-846 3510C	1	112020037A	07/22/2011 20:30	Kathryn I DeHaven	1
01743	Aluminum	SW-846 6010B	1	112081848001	07/28/2011 18:49	John P Hook	1
08014	Boron	SW-846 6010B	1	112081848001	07/28/2011 18:49	John P Hook	1
01750	Calcium	SW-846 6010B	1	112081848001	07/28/2011 18:49	John P Hook	1
01754	Iron	SW-846 6010B	1	112081848001	07/28/2011 18:49	John P Hook	1
01756	Lithium	SW-846 6010B	1	112081848001	07/28/2011 18:49	John P Hook	1
01757	Magnesium	SW-846 6010B	1	112081848001	07/28/2011 18:49	John P Hook	1
07058	Manganese	SW-846 6010B	1	112081848001	07/28/2011 18:49	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	112081848001	07/28/2011 18:49	John P Hook	1
01762	Potassium	SW-846 6010B	1	112081848001	07/28/2011 18:49	John P Hook	1
01767	Sodium	SW-846 6010B	1	112081848001	07/28/2011 18:49	John P Hook	1
08068	Strontium	SW-846 6010B	1	112081848001	07/28/2011 18:49	John P Hook	1
07069	Tin	SW-846 6010B	1	112081848001	07/28/2011 18:49	John P Hook	1
07070	Titanium	SW-846 6010B	1	112081848001	07/28/2011 18:49	John P Hook	1
10144	Zirconium	SW-846 6010B	1	112081848001	07/28/2011 18:49	John P Hook	1
06024	Antimony	SW-846 6020	1	112086050002A	07/28/2011 19:15	David K Beck	1
06025	Arsenic	SW-846 6020	1	112086050002A	07/28/2011 19:15	David K Beck	1
06026	Barium	SW-846 6020	1	112086050002D	07/28/2011 19:15	David K Beck	1
06027	Beryllium	SW-846 6020	1	112086050002A	07/28/2011 19:15	David K Beck	1
06028	Cadmium	SW-846 6020	1	112086050002A	07/28/2011 19:15	David K Beck	1
06031	Chromium	SW-846 6020	1	112086050002A	07/28/2011 19:15	David K Beck	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB-SA6-SS-071911 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-071911

LLI Sample # WW 6349726
LLI Group # 1257182
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:00

Submitted: 07/20/2011 09:15
Reported: 09/08/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0317 SDG#: DE203-17EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06032	Cobalt	SW-846 6020	1	112086050002A	07/28/2011 19:15	David K Beck	1
06033	Copper	SW-846 6020	1	112086050002A	07/28/2011 19:15	David K Beck	1
06035	Lead	SW-846 6020	1	112086050002A	07/28/2011 19:15	David K Beck	1
06038	Molybdenum	SW-846 6020	1	112086050002C	07/28/2011 19:15	David K Beck	1
06039	Nickel	SW-846 6020	1	112086050002A	07/28/2011 19:15	David K Beck	1
06041	Selenium	SW-846 6020	1	112086050002B	07/28/2011 19:15	David K Beck	1
06042	Silver	SW-846 6020	1	112086050002A	07/28/2011 19:15	David K Beck	1
06045	Thallium	SW-846 6020	1	112086050002A	07/28/2011 19:15	David K Beck	1
06048	Vanadium	SW-846 6020	1	112086050002A	07/28/2011 19:15	David K Beck	1
06049	Zinc	SW-846 6020	1	112086050002A	07/28/2011 19:15	David K Beck	1
00259	Mercury	SW-846 7470A	1	112025713003	07/21/2011 20:08	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	112081848001	07/28/2011 09:34	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	112086050002	07/28/2011 10:23	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	112025713003	07/21/2011 14:45	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11201196901C	07/21/2011 05:57	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11201196901C	07/21/2011 05:57	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11209281101B	07/28/2011 17:11	Elyse P Brunstetter	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11201281401B	07/20/2011 10:51	Elyse P Brunstetter	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11207117101A	07/27/2011 08:44	K Robert Caulfeild-James	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11207117101A	07/26/2011 20:15	Alex M Rittle	1
00200	18b pH by 9040B	SW-846 9040B	1	11203020001A	07/22/2011 20:20	Luz M Groff	1

*=This limit was used in the evaluation of the final result
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257182
Reported: 09/08/11 at 01:37 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B112011AA	Sample number(s): 6349721,6349723									
Acetone	8.7		6.7	8.0	ug/kg	169		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	109		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	97		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	113		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	109		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	109		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	71		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	125		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	100		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	96		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	93		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	120		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	103		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	68		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	93		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	115		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	73		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	95		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	101		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	82	94	22-131	13	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	121*		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	107		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	110		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	109		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	102		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	97		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	66		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	107		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	121		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	118		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	107		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	111		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	104		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	118		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	107		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	101		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	98		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	101		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	122		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	99	119	78-120	18	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	95		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	123		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	103		76-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257182
Reported: 09/08/11 at 01:37 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	96		75-120		
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	115		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	120		61-134		
Methylene Chloride	0.96	J	0.24	4.0	ug/kg	123		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	99		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	105		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	107		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	103		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	105		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	103		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	101		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	90		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	116		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	107		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	107		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	104		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	111		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	97		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	99		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	75		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	105		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	99		80-120		
Batch number: E112011AA	Sample number(s): 6349725									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	110	111	80-123	0	30
Batch number: E112062AA	Sample number(s): 6349721,6349723									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	99	96	70-130	3	30
Batch number: Y112062AA	Sample number(s): 6349725									
Acetone	6	U	6.	20	ug/l	82	81	49-234	0	30
Benzene	0.5	U	0.5	5	ug/l	101	102	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	115	118	80-120	2	30
Bromochloromethane	1	U	1.	5	ug/l	114	116	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	99	100	80-120	1	30
Bromoform	1	U	1.	5	ug/l	103	103	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	76	78	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	80	82	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	96	97	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	99	101	78-120	2	30
tert-Butylbenzene	1	U	1.	5	ug/l	106	107	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	100	99	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	105	107	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	78	82	49-129	5	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	101	106	56-129	5	30
Chloroform	0.8	U	0.8	5	ug/l	100	101	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	77	80	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	112	113	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	111	113	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	80	77	38-136	4	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	94	94	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	99	102	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	99	101	80-120	2	30
Dibromomethane	1	U	1.	5	ug/l	100	101	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	105	104	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	115	116	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	110	112	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	71	72	47-120	1	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257182
Reported: 09/08/11 at 01:37 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1-Dichloroethane	1	U	1.	5	ug/l	103	103	79-120	1	30
1,2-Dichloroethane	1	U	1.	5	ug/l	103	103	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	90	92	74-123	3	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	104	106	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	103	105	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	98	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	96	98	80-120	2	30
2,2-Dichloropropane	1	U	1.	5	ug/l	96	99	77-124	3	30
1,1-Dichloropropene	1	U	1.	5	ug/l	104	106	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	104	106	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	91	95	79-120	5	30
Ethylbenzene	0.8	U	0.8	5	ug/l	95	98	79-120	3	30
Freon 113	2	U	2.	10	ug/l	91	92	69-128	1	30
Freon 133a	2	U	2.	5	ug/l	80	78	77-120	3	30
Hexachlorobutadiene	2	U	2.	5	ug/l	98	103	58-120	6	30
2-Hexanone	3	U	3.	10	ug/l	74	76	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	101	103	77-120	2	30
p-Isopropyltoluene	1	U	1.	5	ug/l	106	107	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	97	99	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	81	82	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	99	100	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	96	97	80-120	2	30
Styrene	1	U	1.	5	ug/l	97	98	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	104	105	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	92	94	71-120	2	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	110	111	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	96	100	79-120	4	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	112	116	65-120	3	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	106	109	67-120	3	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	98	101	75-127	3	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	96	98	80-120	2	30
Trichloroethene	1	U	1.	5	ug/l	104	104	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	74	75	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	99	101	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	105	106	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	103	106	75-120	3	30
Vinyl Chloride	1	U	1.	5	ug/l	80	83	65-125	4	30
m+p-Xylene	0.8	U	0.8	5	ug/l	99	101	80-120	3	30
o-Xylene	0.8	U	0.8	5	ug/l	96	99	80-120	3	30
Batch number: 11204WAC026	Sample number(s): 6349726									
Aniline	1	U	1.	5	ug/l	79	85	38-116	7	30
Benzidine	20	U	20.	60	ug/l	80	93	34-117	14	30
Benzoic acid	6	U	6.	15	ug/l	27	29	10-69	8	30
Benzyl alcohol	5	U	5.	15	ug/l	70	70	66-97	0	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	105	111	75-115	6	30
Carbazole	1	U	1.	5	ug/l	106	106	75-120	0	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	95	96	70-123	1	30
4-Chloroaniline	1	U	1.	5	ug/l	75	89	24-128	18	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	103	104	74-124	1	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	100	102	77-108	2	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	98	100	62-127	2	30
2-Chloronaphthalene	2	U	2.	5	ug/l	100	98	54-132	2	30
2-Chlorophenol	1	U	1.	5	ug/l	90	93	71-114	3	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	105	101	77-114	4	30
Dibenzofuran	1	U	1.	5	ug/l	103	100	75-117	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	98	55-118	4	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	97	99	61-111	3	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257182
Reported: 09/08/11 at 01:37 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,4-Dichlorobenzene	1	U	1.	5	ug/l	96	99	53-119	2	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	66	88	37-117	28	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	99	101	77-117	1	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	94	97	72-110	3	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	94	95	70-130	1	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	100	101	65-126	1	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	99	98	52-131	1	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	109	105	76-119	4	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	112	109	76-118	3	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	106	109	68-127	2	30
Hexachlorobenzene	1	U	1.	5	ug/l	109	113	75-119	3	30
Hexachlorobutadiene	1	U	1.	5	ug/l	101	102	57-124	1	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	93	89	36-118	4	30
Hexachloroethane	1	U	1.	5	ug/l	96	96	52-113	1	30
Isophorone	1	U	1.	5	ug/l	103	104	74-117	1	30
2-Methylphenol	1	U	1.	5	ug/l	77	80	58-110	3	30
4-Methylphenol	2	U	2.	5	ug/l	71	74	49-108	4	30
2-Nitroaniline	1	U	1.	5	ug/l	107	108	75-120	1	30
3-Nitroaniline	1	U	1.	5	ug/l	102	100	74-113	2	30
4-Nitroaniline	1	U	1.	5	ug/l	84	87	59-100	3	30
Nitrobenzene	1	U	1.	5	ug/l	104	104	75-109	0	30
2-Nitrophenol	1	U	1.	5	ug/l	102	102	76-118	0	30
4-Nitrophenol	10	U	10.	30	ug/l	35	34	16-78	3	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	97	98	69-110	1	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	102	103	67-136	1	30
Pentachlorophenol	3	U	3.	15	ug/l	102	107	53-110	5	30
Phenol	1	U	1.	5	ug/l	37	38	21-67	3	30
Tetralin	5	U	5.	5	ug/l	74	24*	70-130	103*	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	100	99	71-112	0	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	107	103	79-107	3	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	103	101	76-120	2	30
Batch number: 11206WAC026	Sample number(s): 6349726									
Acenaphthene	0.010	U	0.010	0.050	ug/l	99	99	74-109	0	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	95	95	70-110	0	30
Anthracene	0.010	U	0.010	0.050	ug/l	98	97	66-111	1	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	94	97	72-114	3	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	97	99	60-127	2	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	102	102	69-123	0	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	90	91	57-131	0	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	101	105	59-130	4	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	69	70	40-138	1	30
Di-n-butylphthalate	0.14	J	0.050	1.0	ug/l	95	95	74-131	0	30
Chrysene	0.010	U	0.010	0.050	ug/l	99	99	76-116	0	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	96	96	55-134	0	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	97	98	57-134	2	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	61	62	40-119	1	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	97	95	57-154	2	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	101	101	75-116	0	30
Fluorene	0.010	U	0.010	0.050	ug/l	106	106	75-114	1	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	94	94	69-124	1	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	93	92	71-117	2	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	92	92	75-115	0	30
Naphthalene	0.030	U	0.030	0.050	ug/l	94	92	72-109	2	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	69	70	36-89	1	30
Di-n-octylphthalate	0.28	J	0.050	1.0	ug/l	112	111	57-145	1	30
Phenanthrene	0.030	U	0.030	0.050	ug/l	97	98	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	95	97	69-118	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257182
Reported: 09/08/11 at 01:37 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11207WAA026	Sample number(s): 6349726									
N-Nitrosodimethylamine	2.04		0.500	1.00	ng/l	99	97	70-130	2	30
Batch number: 11209SLB026	Sample number(s): 6349710-6349724									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	100		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	103		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	103		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	105		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	104		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	114		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	104		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	106		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	107		65-131		
Di-n-butylphthalate	11	J	6.0	18	ug/kg	118		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	98		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	106		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	122		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	111		79-121		
Bis(2-Ethylhexyl)phthalate	10	J	6.0	18	ug/kg	114		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	108		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	108		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	107		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	90		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	93		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	113		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	114		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	99		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	98		72-119		
Batch number: 11209SLC026	Sample number(s): 6349710-6349724									
Acenaphthene	17	U	17.	170	ug/kg	101		76-111		
Aniline	170 U		170.	500	ug/kg	87		20-115		
Anthracene	17	U	17.	170	ug/kg	104		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	46		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	97		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	105		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	112		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	88		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	104		67-125		
Benzoic acid	170 U		170.	500	ug/kg	62		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	102		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	95		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	107		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	106		79-112		
Carbazole	17	U	17.	170	ug/kg	103		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	114		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	64		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	97		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	96		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	93		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	97		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	104		72-112		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257182
Reported: 09/08/11 at 01:37 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	99		74-115		
Chrysene	17	U	17.	170	ug/kg	98		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	94		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	99		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	93		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	91		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	92		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	63		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	106		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	111		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	106		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	115		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	106		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	77		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	64		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	114		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	105		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	98		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	103		75-117		
Fluoranthene	17	U	17.	170	ug/kg	105		78-116		
Fluorene	17	U	17.	170	ug/kg	106		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	95		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	93		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	74		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	91		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	93		64-119		
Isophorone	17	U	17.	170	ug/kg	99		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	107		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	106		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	108		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	101		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	76		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	99		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	97		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	104		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	98		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	100		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	122		62-137		
Pentachlorophenol	170 U		170.	500	ug/kg	87		51-117		
Phenanthrene	17	U	17.	170	ug/kg	100		77-113		
Phenol	17	U	17.	170	ug/kg	103		58-112		
Pyrene	17	U	17.	170	ug/kg	105		75-115		
Tetralin	170 U		170.	170	ug/kg	0*		70-130		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	103		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	100		78-111		
Batch number: 11206A34A	Sample number(s): 6349721-6349724									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	73	71	67-119	3	30
Batch number: 11206C20A	Sample number(s): 6349725									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257182
Reported: 09/08/11 at 01:37 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	91	100	75-135	10	30
Batch number: 112070006A	Sample number(s): 6349726									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	110	110	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	103	103	50-122	0	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	103	103	50-122	0	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	110	110	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	99	99	80-120	0	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	110	110	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	100	110	65-125	10	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	99	99	75-121	0	30
Nitroglycerin	5.2	U	5.2	15	ug/l	108	108	80-120	0	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	74-120	0	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	110*	110*	69-107	0	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	100	100	80-120	0	30
PETN	6.0	U	6.0	18	ug/l	129*	129*	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	90	91	70-125	1	30
Tetryl	0.40	U	0.40	0.60	ug/l	82	90	72-141	9	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	89	94	53-129	5	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	76-109	0	30
Batch number: 112010002A	Sample number(s): 6349726									
25b Formaldehyde 8315A	10	U	10.	50	ug/l	92	94	69-130	2	30
Batch number: 112070028A	Sample number(s): 6349726									
2,4-D	0.16	U	0.16	0.50	ug/l	92	92	73-157	0	30
Dalapon	0.25	U	0.25	1.3	ug/l	73	73	40-100	0	30
2,4-DB	0.30	U	0.30	1.0	ug/l	92	88	65-130	4	30
Dicamba	0.080	U	0.080	0.30	ug/l	84	84	68-135	0	30
Dinoseb	0.10	U	0.10	0.50	ug/l	70	74	32-91	6	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	120	120	76-170	0	30
MCPA	300 U		300.	1,000	ug/l	90	88	65-128	2	30
MCPP	50	U	50.	200	ug/l	100	96	67-137	4	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	84	84	63-147	0	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	100	96	63-134	4	30
Batch number: 112090026A	Sample number(s): 6349710-6349720									
2,4-D	1.2	U	1.2	3.6	ug/kg	91		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	47		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	74		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	146*		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	5*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	135		62-170		
MCPA	76	U	76.	250	ug/kg	99		60-130		
MCPP (Mecoprop)	370		75.	250	ug/kg	429*		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	87		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	80		68-114		
Batch number: 112130022A	Sample number(s): 6349710,6349721									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	114		85-115		
Batch number: 112070015A	Sample number(s): 6349726									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	66	54	35-84	20	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	102	96	51-128	6	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257182
Reported: 09/08/11 at 01:37 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	118	114	56-135	3	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 112070016A	Sample number(s): 6349726									
Aldrin	0.0020	U	0.0020	0.010	ug/l	91	96	54-159	5	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	110	110	59-146	0	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	98	103	73-147	5	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	100	110	68-128	10	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	100	105	71-139	5	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	111	121	66-130	9	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	95	105	53-126	10	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	100	103	76-148	3	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	100	110	76-132	10	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	78	84	68-128	7	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	80	85	59-144	6	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	90	95	71-142	5	30
Endrin	0.0081	U	0.0081	0.020	ug/l	100	110	52-132	10	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	90	95	68-139	5	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	90	95	69-146	5	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	95	100	57-126	5	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	93	101	73-156	8	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	100	110	52-133	10	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 112100003A	Sample number(s): 6349710-6349724									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	96	98	36-106	2	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	93		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	107		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112100006A	Sample number(s): 6349710-6349720									
Aldrin	0.066	U	0.066	0.17	ug/kg	52		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	44		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	56		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	47		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	76		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	74		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	76		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	56		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	69		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	56		45-123		

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Endosulfan II	0.066	U	0.066	0.34	ug/kg	83		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	91		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	75		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	73		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	83		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	47		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	70		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	80		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112010013A	Sample number(s): 6349712-6349715,6349721-6349724									
Diethylene glycol	5.0	U	5.0	10	mg/kg	96		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	95		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	90		75-125		
Batch number: 112020001A	Sample number(s): 6349726									
Diethylene glycol	20	U	20.	200	mg/l	105	120	78-126	13	20
Ethylene glycol	20	U	20.	200	mg/l	89	116	80-124	26*	20
Propylene glycol	20	U	20.	200	mg/l	90	110	80-120	20	20
Batch number: 112070029A	Sample number(s): 6349712-6349715,6349721-6349724									
Ethanol	100 U		100.	500	ug/kg	97	101	71-129	5	20
Isopropanol	100 U		100.	500	ug/kg	91	94	75-125	3	20
Methanol	100 U		100.	500	ug/kg	83	86	68-129	3	20
Batch number: 112090041A	Sample number(s): 6349726									
Ethanol	200 U		200.	1,000	ug/l	108		66-132		
Isopropanol	200 U		200.	1,000	ug/l	100		75-125		
Methanol	200 U		200.	1,000	ug/l	104		71-140		
Batch number: 112020035A	Sample number(s): 6349726									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	88	88	69-125	0	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	96	99	77-125	3	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	92	100	68-124	8	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	107	113	80-121	6	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	76	74	46-103	3	30
Batch number: 112020037A	Sample number(s): 6349726									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	84	86	75-125	2	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	100	110	75-125	10	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	97	100	75-125	3	20
Batch number: 112100010A	Sample number(s): 6349712-6349715,6349721-6349724									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	86		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	103		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
Batch number: 112100019A	Sample number(s): 6349712-6349715,6349721-6349724									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	86		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	89		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	89		69-132		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257182
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	87		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	74		54-107		
Batch number: 112011026004A	Sample number(s): 6349710-6349711									
Antimony	0.0740	U	0.0740	0.200	mg/kg	78		40-224		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	109		78-122		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	114		80-120		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	106		81-119		
Chromium	0.120	U	0.120	0.400	mg/kg	112		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	105		80-119		
Copper	0.0800	U	0.0800	0.400	mg/kg	112		78-122		
Lead	0.0102	U	0.0102	0.200	mg/kg	110		77-123		
Nickel	0.100	U	0.100	0.400	mg/kg	112		80-120		
Silver	0.0142	U	0.0142	0.100	mg/kg	107		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	110		75-124		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	118		76-124		
Zinc	0.560	U	0.560	3.00	mg/kg	107		79-121		
Batch number: 112011026004B	Sample number(s): 6349710-6349711									
Selenium	0.0580	U	0.0580	0.400	mg/kg	116		77-123		
Batch number: 112011026004C	Sample number(s): 6349710-6349711									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	109		76-123		
Batch number: 112011026004D	Sample number(s): 6349710-6349711									
Barium	0.106	U	0.106	0.400	mg/kg	111		80-120		
Batch number: 112015708003	Sample number(s): 6349710-6349711									
Aluminum	6.05	U	6.05	20.0	mg/kg	122		42-158		
Boron	0.606	J	0.360	5.00	mg/kg	106		66-134		
Calcium	8.49	J	2.50	20.0	mg/kg	107		79-121		
Iron	2.61	U	2.61	20.0	mg/kg	126		51-149		
Lithium	0.62	U	0.62	2.0	mg/kg	97		80-120		
Magnesium	0.440	U	0.440	10.0	mg/kg	112		64-136		
Manganese	0.0440	J	0.0360	0.500	mg/kg	102		78-122		
Phosphorus	1.39	J	0.350	10.0	mg/kg	100		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	107		69-131		
Sodium	5.95	U	5.95	100	mg/kg	107		71-129		
Strontium	0.0460	J	0.0250	0.500	mg/kg	101		81-119		
Tin	1.63	J	0.320	10.0	mg/kg	99		74-126		
Titanium	0.0830	J	0.0710	1.00	mg/kg	155		40-186		
Zirconium	0.460	U	0.460	5.00	mg/kg	100		80-120		
Batch number: 112015711003	Sample number(s): 6349710-6349711									
Mercury	0.0070	U	0.0070	0.0991	mg/kg	104		72-128		
Batch number: 112025713003	Sample number(s): 6349726									
Mercury	0.000026 U		0.00002 6	0.00020	mg/l	96	102	80-120	6	20
Batch number: 112045711003	Sample number(s): 6349712-6349713,6349715-6349724									
Mercury	0.0064	U	0.0064	0.0905	mg/kg	121		72-128		
Batch number: 112061026002A	Sample number(s): 6349712-6349724									
Antimony	0.0740	U	0.0740	0.200	mg/kg	81		40-224		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	107		78-122		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	105		80-120		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	102		81-119		

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Quality Control Summary

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Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Chromium	0.120 U	0.120	0.400	mg/kg	109		77-123		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	101		80-119		
Copper	0.0800 U	0.0800	0.400	mg/kg	105		78-122		
Lead	0.0239 J	0.0102	0.200	mg/kg	101		77-123		
Nickel	0.100 U	0.100	0.400	mg/kg	107		80-120		
Silver	0.0142 U	0.0142	0.100	mg/kg	103		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	102		75-124		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	117		76-124		
Zinc	0.560 U	0.560	3.00	mg/kg	103		79-121		
Batch number: 112061026002B	Sample number(s): 6349712-6349724								
Selenium	0.0580 U	0.0580	0.400	mg/kg	111		77-123		
Batch number: 112061026002C	Sample number(s): 6349712-6349724								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	107		76-123		
Batch number: 112061026002D	Sample number(s): 6349712-6349724								
Barium	0.106 U	0.106	0.400	mg/kg	102		80-120		
Batch number: 112065708003	Sample number(s): 6349712-6349724								
Aluminum	6.05 U	6.05	20.0	mg/kg	130		42-158		
Boron	0.360 U	0.360	5.00	mg/kg	107		66-134		
Calcium	5.42 J	2.50	20.0	mg/kg	109		79-121		
Iron	10.5 J	2.61	20.0	mg/kg	130		51-149		
Lithium	0.62 U	0.62	2.0	mg/kg	102		80-120		
Magnesium	0.440 U	0.440	10.0	mg/kg	117		64-136		
Manganese	0.0980 J	0.0360	0.500	mg/kg	103		78-122		
Phosphorus	1.41 J	0.350	10.0	mg/kg	107		80-120		
Potassium	11.3 U	11.3	50.0	mg/kg	110		69-131		
Sodium	5.95 U	5.95	100	mg/kg	107		71-129		
Strontium	0.0250 U	0.0250	0.500	mg/kg	103		81-119		
Tin	1.75 J	0.320	10.0	mg/kg	101		74-126		
Titanium	0.0880 J	0.0710	1.00	mg/kg	168		40-186		
Zirconium	0.692 J	0.460	5.00	mg/kg	102		80-120		
Batch number: 112075711004	Sample number(s): 6349714								
Mercury	0.0070 U	0.0070	0.0998	mg/kg	104		72-128		
Batch number: 112081848001	Sample number(s): 6349726								
Aluminum	0.0801 U	0.0801	0.200	mg/l	98	96	90-112	1	20
Boron	0.0029 J	0.0022	0.0500	mg/l	97	98	89-110	1	20
Calcium	0.0705 U	0.0705	0.200	mg/l	103	105	90-112	2	20
Iron	0.0141 U	0.0141	0.200	mg/l	102	103	90-112	1	20
Lithium	0.0076 U	0.0076	0.0200	mg/l	100	98	80-120	1	20
Magnesium	0.0067 U	0.0067	0.100	mg/l	101	101	89-110	1	20
Manganese	0.00044 U	0.00044	0.0050	mg/l	102	103	90-110	1	20
Phosphorus	0.0047 U	0.0047	0.100	mg/l	101	101	80-120	0	20
Potassium	0.0874 U	0.0874	0.500	mg/l	101	101	85-115	0	20
Sodium	0.0647 U	0.0647	1.00	mg/l	95	95	87-114	0	20
Strontium	0.00029 J	0.00022	0.0050	mg/l	103	103	90-110	0	20
Tin	0.0043 U	0.0043	0.0200	mg/l	100	99	90-110	0	20
Titanium	0.00046 U	0.00046	0.0100	mg/l	101	101	90-113	0	20
Zirconium	0.0059 J	0.0042	0.0500	mg/l	103	102	80-120	0	20
Batch number: 112086050002A	Sample number(s): 6349726								
Antimony	0.00042 U	0.00042	0.0010	mg/l	103	107	87-110	4	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	108	103	86-111	4	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	104	104	90-113	0	20

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Reported: 09/08/11 at 01:37 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Cadmium	0.00020 U	0.00020	0.00050	mg/l	104	102	90-114	2	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	103	103	90-118	0	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	101	98	87-113	2	20
Copper	0.00038 U	0.00038	0.0020	mg/l	103	101	90-113	1	20
Lead	0.000080 U	0.00008 0	0.0010	mg/l	99	101	90-115	2	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	106	104	90-113	2	20
Silver	0.000098 U	0.00009 8	0.00050	mg/l	103	102	90-115	1	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	108	99	89-116	8	20
Vanadium	0.00018 U	0.00018	0.00050	mg/l	102	103	89-116	1	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	105	100	90-116	5	20
Batch number: 112086050002B	Sample number(s): 6349726								
Selenium	0.00027 U	0.00027	0.0020	mg/l	105	105	85-114	0	20
Batch number: 112086050002C	Sample number(s): 6349726								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	102	101	89-115	2	20
Batch number: 112086050002D	Sample number(s): 6349726								
Barium	0.00069 U	0.00069	0.0020	mg/l	102	102	88-113	0	20
Batch number: 11201196901C	Sample number(s): 6349726								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	94	94	90-110	1	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	91	90	90-110	1	20
Batch number: 11201281401B	Sample number(s): 6349726								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	100	101	90-110	1	20
Batch number: 11207117101A	Sample number(s): 6349726								
17b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	102	97	90-110	5	20
Batch number: 11209281101B	Sample number(s): 6349726								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	98	95	85-115	3	20
Batch number: 11209495201A	Sample number(s): 6349710-6349719								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	98		85-115		
Batch number: 11209495201B	Sample number(s): 6349720-6349724								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	98		85-115		
Batch number: 11209621201A	Sample number(s): 6349710-6349719								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	104		90-110		
Batch number: 11209621201B	Sample number(s): 6349720-6349724								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	104		90-110		
Batch number: 11214243201A	Sample number(s): 6349710-6349724								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	98		80-120		
Batch number: 11203020001A	Sample number(s): 6349726								
18b pH by 9040B					100	100	90-110	0	3
Batch number: 11213039401A	Sample number(s): 6349710-6349718								
18a pH by 9045C					100		95-105		
Batch number: 11213039401B	Sample number(s): 6349719-6349724								
18a pH by 9045C					100		95-105		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257182
Reported: 09/08/11 at 01:37 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11207162401A	Sample number(s): 6349710-6349716								
Moisture Content by 160.3					100		80-120		
Batch number: 11207162401B	Sample number(s): 6349717-6349724								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B112011AA	Sample number(s): 6349721,6349723 UNSPK: P345448								
Acetone	179	157	15-210	15	30				
Benzene	125	116	55-143	11	30				
Bromobenzene	106	102	43-139	7	30				
Bromochloromethane	128	117	60-137	13	30				
Bromodichloromethane	123	115	53-136	11	30				
Bromoform	110	106	38-124	7	30				
Bromomethane	72	65	42-168	14	30				
2-Butanone	126	116	37-163	11	30				
n-Butylbenzene	103	100	30-146	6	30				
sec-Butylbenzene	105	102	33-157	6	30				
tert-Butylbenzene	103	98	41-152	8	30				
Carbon Tetrachloride	138	126	45-153	13	30				
Chlorobenzene	114	109	49-135	8	30				
Chloroethane	65	57	39-152	17	30				
2-Chloroethyl Vinyl Ether	97	88	32-139	14	30				
Chloroform	131	121	61-142	12	30				
Chloromethane	83	73	51-163	16	30				
2-Chlorotoluene	106	101	42-146	9	30				
4-Chlorotoluene	109	104	39-145	9	30				
1,2-Dibromo-3-chloropropane	115	109	30-139	8	30				
Dibromochloromethane	115	109	51-128	9	30				
1,2-Dibromoethane	116	109	54-129	10	30				
Dibromomethane	119	111	57-130	11	30				
1,2-Dichlorobenzene	105	101	36-133	7	30				
1,3-Dichlorobenzene	103	98	34-134	8	30				
1,4-Dichlorobenzene	104	100	35-136	8	30				
Dichlorodifluoromethane	75	65	26-151	17	30				
1,1-Dichloroethane	125	115	63-142	12	30				
1,2-Dichloroethane	135*	127	68-131	10	30				
1,1-Dichloroethene	139	127	61-149	13	30				
cis-1,2-Dichloroethene	122	113	60-136	11	30				
trans-1,2-Dichloroethene	128	117	59-142	12	30				
1,2-Dichloropropane	114	107	62-135	10	30				
1,3-Dichloropropane	114	107	58-129	10	30				
2,2-Dichloropropane	135	126	53-147	10	30				
1,1-Dichloropropene	125	115	54-145	12	30				
cis-1,3-Dichloropropene	110	104	51-131	10	30				
trans-1,3-Dichloropropene	106	100	49-129	10	30				
Ethylbenzene	115	107	44-141	11	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Freon 113	140	131	56-156	11	30				
Hexachlorobutadiene	83	84	10-155	3	30				
2-Hexanone	117	112	32-160	8	30				
Isopropylbenzene	114	108	38-144	9	30				
p-Isopropyltoluene	102	99	29-152	7	30				
Methyl Tertiary Butyl Ether	122	115	55-129	10	30				
4-Methyl-2-pentanone	117	108	46-139	11	30				
Methylene Chloride	-119*	-156*	61-141	14	30				
n-Propylbenzene	110	106	39-157	7	30				
Styrene	115	109	35-134	10	30				
1,1,1,2-Tetrachloroethane	120	112	52-130	10	30				
1,1,2,2-Tetrachloroethane	106	100	40-152	9	30				
Tetrachloroethene	125	119	42-149	9	30				
Toluene	117	110	50-146	10	30				
1,2,3-Trichlorobenzene	87	81	10-140	10	30				
1,2,4-Trichlorobenzene	80	75	10-136	11	30				
1,1,1-Trichloroethane	134	124	64-142	11	30				
1,1,2-Trichloroethane	118	110	54-139	11	30				
Trichloroethene	124	115	53-144	11	30				
Trichlorofluoromethane	117	103	47-163	16	30				
1,2,3-Trichloropropane	113	106	45-154	10	30				
1,2,4-Trimethylbenzene	106	102	37-149	7	30				
1,3,5-Trimethylbenzene	111	106	38-150	8	30				
Vinyl Chloride	86	78	50-154	14	30				
m+p-Xylene	118	110	44-137	10	30				
o-Xylene	110	105	42-137	9	30				
Batch number: 11209SLB026	Sample number(s): 6349710-6349724 UNSPK: 6349710								
Acenaphthene	106*	107*	63-105	2	30				
Acenaphthylene	102	110	67-114	8	30				
Anthracene	86	95	73-115	8	30				
Benzo(a)anthracene	40*	49*	59-128	6	30				
Benzo(a)pyrene	61	78	58-142	12	30				
Benzo(b)fluoranthene	21*	74	54-163	30	30				
Benzo(g,h,i)perylene	82	89	33-141	5	30				
Benzo(k)fluoranthene	83	76	57-153	6	30				
Butylbenzylphthalate	227*	234*	57-173	3	30				
Di-n-butylphthalate	85	98	65-148	5	30				
Chrysene	42*	61*	67-123	12	30				
Dibenz(a,h)anthracene	105	105	22-133	0	30				
Diethylphthalate	0*	0*	70-136	0	30				
Dimethylphthalate	0*	0*	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	100	96	39-167	1	30				
Fluoranthene	-27*	20*	51-149	25	30				
Fluorene	106	113	66-122	6	30				
Indeno(1,2,3-cd)pyrene	82	77	21-143	4	30				
1-Methylnaphthalene	91	96	72-123	6	30				
2-Methylnaphthalene	94	99	64-103	6	30				
Naphthalene	97	103*	61-102	6	30				
N-Nitrosodimethylamine	108	128*	48-113	17	30				
Di-n-octylphthalate	258*	267*	40-192	4	30				
Phenanthrene	20*	41*	62-122	16	30				
Pyrene	-3*	8*	51-131	8	30				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11209SLC026	Sample number(s): 6349710-6349724 UNSPK: 6349710								
Acenaphthene	102	101	75-115	1	30				
Aniline	47	57	18-116	20	30				
Anthracene	102	104	75-115	1	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	91	95	65-122	4	30				
Benzo(a)pyrene	102	103	57-126	1	30				
Benzo(b)fluoranthene	95	106	59-125	11	30				
Benzo(g,h,i)perylene	99	100	59-127	1	30				
Benzo(k)fluoranthene	118	100	56-132	16	30				
Benzoic acid	41	37	10-173	11	30				
Benzyl alcohol	98	93	67-115	5	30				
4-Bromophenyl-phenylether	106	107	67-129	1	30				
Butylbenzylphthalate	106	107	73-134	1	30				
Di-n-butylphthalate	101	102	67-123	2	30				
Carbazole	98	99	64-120	1	30				
4-Chloro-3-methylphenol	100	99	62-122	0	30				
4-Chloroaniline	38	42	13-107	9	30				
bis(2-Chloroethoxy)methane	92	94	75-104	2	30				
bis(2-Chloroethyl)ether	102	90	60-116	13	30				
bis(2-Chloroisopropyl)ether	94	91	55-142	4	30				
2-Chloronaphthalene	80	101	50-141	23	30				
2-Chlorophenol	102	97	73-121	6	30				
4-Chlorophenyl-phenylether	99	96	80-109	4	30				
Chrysene	92	95	62-128	3	30				
Dibenz(a,h)anthracene	102	106	65-125	4	30				
Dibenzofuran	99	94	71-112	4	30				
1,2-Dichlorobenzene	95	91	66-108	4	30				
1,3-Dichlorobenzene	94	91	63-109	3	30				
1,4-Dichlorobenzene	94	92	58-108	2	30				
3,3'-Dichlorobenzidine	57	63	28-109	10	30				
2,4-Dichlorophenol	102	100	66-123	2	30				
Diethylphthalate	102	100	66-118	2	30				
2,4-Dimethylphenol	101	100	68-118	1	30				
3,5-Dimethylphenol	109	108	71-127	1	30				
Dimethylphthalate	102	99	64-118	3	30				
4,6-Dinitro-2-methylphenol	44	33	11-126	28	30				
2,4-Dinitrophenol	22	14*	20-143	44*	30				
2,4-Dinitrotoluene	100	94	56-129	6	30				
2,6-Dinitrotoluene	99	96	69-123	3	30				
1,2-Diphenylhydrazine	107	111	71-129	3	30				
bis(2-Ethylhexyl)phthalate	107	104	63-122	2	30				
Fluoranthene	95	94	73-112	1	30				
Fluorene	103	98	63-121	4	30				
Hexachlorobenzene	102	106	77-114	4	30				
Hexachlorobutadiene	99	99	62-120	0	30				
Hexachlorocyclopentadiene	48	29	10-153	48*	30				
Hexachloroethane	84	79	57-109	6	30				
Indeno(1,2,3-cd)pyrene	101	101	61-126	0	30				
Isophorone	95	94	73-102	0	30				
2-Methylphenol	104	99	75-111	5	30				
4-Methylphenol	99	94	59-123	5	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Nitroaniline	106	106	67-125	0	30				
3-Nitroaniline	88	90	59-122	2	30				
4-Nitroaniline	90	84	41-109	6	30				
Nitrobenzene	99	99	57-125	0	30				
2-Nitrophenol	95	95	56-127	0	30				
4-Nitrophenol	90	85	37-129	5	30				
N-Nitroso-di-n-propylamine	95	89	60-116	6	30				
N-Nitrosodiphenylamine	109	112	71-122	2	30				
Di-n-octylphthalate	120	115	56-126	4	30				
Pentachlorophenol	70	75	28-127	7	30				
Phenanthrene	101	102	65-125	0	30				
Phenol	99	90	58-126	10	30				
Pyrene	104	106	74-126	2	30				
Tetralin	104	74	70-130	34*	30				
1,2,4-Trichlorobenzene	93	97	72-115	4	30				
2,4,5-Trichlorophenol	104	100	58-129	3	30				
2,4,6-Trichlorophenol	102	101	56-134	2	30				
Batch number: 112090026A	Sample number(s): 6349710-6349720 UNSPK: 6349710								
2,4-D	98	121	17-180	21	35				
Dalapon	29	51	10-125	54*	50				
2,4-DB	32	30	10-201	6	50				
Dicamba	0*	61	10-190	200*	50				
Dinoseb	6*	0*	10-46	200*	35				
2,4-DP (Dichlorprop)	99	111	33-178	12	50				
MCPA	48	54	10-213	12	50				
MCPP (Mecoprop)	27	38	10-184	36	50				
2,4,5-T	296*	346*	10-156	16	35				
2,4,5-TP	34	49	24-141	38*	35				
Batch number: 112130022A	Sample number(s): 6349710,6349721 UNSPK: P352971								
6a Perchlorate EPA 6850	119	121*	80-120	2	20				
Batch number: 112100003A	Sample number(s): 6349710-6349724 UNSPK: 6349711								
PCB-1016	74	84	29-146	13	50				
PCB-1260	60	67	39-149	9	50				
Batch number: 112100006A	Sample number(s): 6349710-6349720 UNSPK: 6349710								
Aldrin	45	64	16-126	33	50				
Alpha BHC	38	53	10-129	32	50				
Beta BHC	47	59	14-147	24	50				
Gamma BHC - Lindane	41	62	10-140	40	50				
p,p-DDD	61	73	16-163	18	50				
p,p-DDE	66	128	18-161	63*	50				
p,p-DDT	-82*	45	10-176	86*	50				
Delta BHC	53	91	23-140	52*	50				
Dieldrin	87	134	19-154	43	50				
Endosulfan I	47	50	16-137	6	50				
Endosulfan II	63	66	28-154	5	50				
Endosulfan Sulfate	65	68	21-160	5	50				
Endrin	70	78	11-149	10	50				
Endrin Aldehyde	27	45	10-148	29	35				
Endrin Ketone	70	61	22-165	14	50				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Heptachlor	44	62	13-126	33	50				
Heptachlor Epoxide	55	82	13-157	40	50				
Methoxychlor	57	58	32-147	2	50				
Batch number: 112010013A	Sample number(s): 6349712-6349715,6349721-6349724 UNSPK: P348152								
Diethylene glycol	14*	12*	59-109	18	20				
Ethylene glycol	44*	42*	63-107	4	20				
Propylene glycol	59*	58*	63-107	2	20				
Batch number: 112090041A	Sample number(s): 6349726 UNSPK: P353308								
Ethanol	108	104	62-145	4	20				
Isopropanol	94	90	73-131	4	20				
Methanol	92	92	52-159	0	20				
Batch number: 112100010A	Sample number(s): 6349712-6349715,6349721-6349724 UNSPK: 6349712								
m-Terphenyl	47*	72*	75-125	43*	20				
o-Terphenyl	59*	93	75-125	45*	20				
p-Terphenyl	52*	79	75-125	42*	20				
Batch number: 112100019A	Sample number(s): 6349712-6349715,6349721-6349724 UNSPK: 6349714								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	0*	0*	49-123	0	20				
EFH (C21-C30)	1582 (2)	2178 (2)	49-123	10	20				
EFH (C30 - C40)	6488 (2)	5760 (2)	49-123	6	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 112011026004A	Sample number(s): 6349710-6349711 UNSPK: P348152 BKG: P348152								
Antimony	44*	42*	75-125	4	20	0.167 J	0.133 J	23* (1)	20
Arsenic	159 (2)	136 (2)	75-125	3	20	13.3	13.5	1	20
Beryllium	147*	154*	75-125	1	20	0.792	0.787	1	20
Cadmium	152*	153*	75-125	2	20	0.580	0.701	19	20
Chromium	127*	123	75-125	2	20	23.2	23.9	3	20
Cobalt	151*	150*	75-125	3	20	8.49	8.59	1	20
Copper	160*	159*	75-125	2	20	11.9	12.9	8	20
Lead	206 (2)	262 (2)	75-125	6	20	16.9	35.0	70*	20
Nickel	148*	146*	75-125	2	20	18.0	17.7	2	20
Silver	156*	156*	75-125	3	20	0.0786 J	0.0742 J	6 (1)	20
Thallium	169*	168*	75-125	3	20	0.338	0.367	8 (1)	20
Vanadium	163 (2)	146 (2)	75-125	4	20	44.2	47.2	6	20
Zinc	189 (2)	171 (2)	75-125	2	20	94.9	99.2	4	20
Batch number: 112011026004B	Sample number(s): 6349710-6349711 UNSPK: P348152 BKG: P348152								
Selenium	101	105	75-125	2	20	0.104 J	0.0934 J	11 (1)	20
Batch number: 112011026004C	Sample number(s): 6349710-6349711 UNSPK: P348152 BKG: P348152								
Molybdenum	157*	156*	75-125	3	20	0.801	0.784	2	20
Batch number: 112011026004D	Sample number(s): 6349710-6349711 UNSPK: P348152 BKG: P348152								
Barium	236 (2)	204 (2)	75-125	2	20	145	150	4	20
Batch number: 112015708003	Sample number(s): 6349710-6349711 UNSPK: P348152 BKG: P348152								

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Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Aluminum	1007 (2)	1212 (2)	75-125	2	20	13,500	13,200	2	20
Boron	97	98	84-115	1	20	5.15	5.16	0 (1)	20
Calcium	132 (2)	142 (2)	75-125	1	20	2,390	2,400	1	20
Iron	-92 (2)	568 (2)	75-125	3	20	19,500	19,700	1	20
Lithium	98	99	82-114	1	20	24.1	23.6	2	20
Magnesium	137 (2)	117 (2)	75-125	1	20	4,120	4,160	1	20
Manganese	107 (2)	162 (2)	75-125	7	20	282	295	4	20
Phosphorus	94 (2)	89 (2)	75-125	1	20	406	400	2	20
Potassium	104	107	75-125	0	20	3,530	3,470	2	20
Sodium	97	98	75-125	1	20	71.9 J	69.5 J	3 (1)	20
Strontium	97	99	75-115	0	20	15.4	15.8	3	20
Tin	92	93	80-110	1	20	3.37 J	2.94 J	14 (1)	20
Titanium	262 (2)	288 (2)	75-125	2	20	978	1,000	2	20
Zirconium	93	94	75-125	1	20	3.18 J	3.10 J	3 (1)	20
Batch number: 112015711003	Sample number(s): 6349710-6349711 UNSPK: P348152 BKG: P348152								
Mercury	105	101	65-135	1	20	0.0263 J	0.0321 J	20 (1)	20
Batch number: 112045711003	Sample number(s): 6349712-6349713,6349715-6349724 UNSPK: P352971 BKG: P352971								
Mercury	119	102	65-135	14	20	0.0435 J	0.0320 J	30* (1)	20
Batch number: 112061026002A	Sample number(s): 6349712-6349724 UNSPK: 6349712 BKG: 6349712								
Antimony	32*	48*	75-125	31*	20	0.166 J	0.140 J	17 (1)	20
Arsenic	-2 (2)	276 (2)	75-125	43*	20	10.0	9.05	10	20
Beryllium	85	130*	75-125	21*	20	0.857	0.833	3	20
Cadmium	115	142*	75-125	19	20	0.204	0.217	6 (1)	20
Chromium	62*	114	75-125	13	20	30.7	29.8	3	20
Cobalt	105	138*	75-125	23*	20	12.8	11.5	11	20
Copper	26*	114	75-125	27*	20	25.6	20.8	21*	20
Lead	27 (2)	175 (2)	75-125	30*	20	11.9	11.6	3	20
Nickel	53*	123	75-125	22*	20	23.3	20.4	13	20
Silver	117	141*	75-125	20	20	0.0711 J	0.0877 J	21* (1)	20
Thallium	95	129*	75-125	16	20	0.412	0.354	15 (1)	20
Vanadium	-18 (2)	122 (2)	75-125	22*	20	58.4	54.4	7	20
Zinc	-139 (2)	181 (2)	75-125	28*	20	112	108	4	20
Batch number: 112061026002B	Sample number(s): 6349712-6349724 UNSPK: 6349712 BKG: 6349712								
Selenium	112	129*	75-125	14	20	0.192 J	0.236 J	20 (1)	20
Batch number: 112061026002C	Sample number(s): 6349712-6349724 UNSPK: 6349712 BKG: 6349712								
Molybdenum	114	142*	75-125	21*	20	0.807	0.770	5	20
Batch number: 112061026002D	Sample number(s): 6349712-6349724 UNSPK: 6349712 BKG: 6349712								
Barium	-275 (2)	86 (2)	75-125	24*	20	155	144	7	20
Batch number: 112065708003	Sample number(s): 6349712-6349724 UNSPK: 6349712 BKG: 6349712								
Aluminum	-344 (2)	1677 (2)	75-125	23*	20	15,300	14,700	4	20
Boron	96	98	84-115	17	20	5.69	5.39	5 (1)	20
Calcium	-47 (2)	149 (2)	75-125	19	20	3,650	3,870	6	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257182
Reported: 09/08/11 at 01:37 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Iron	-5900 (2)	-836 (2)	75-125	17	20	27,600		25,300		9	20
Lithium	92	99	82-114	17	20	29.8		26.9		10	20
Magnesium	-527 (2)	195 (2)	75-125	22*	20	6,090		5,580		9	20
Manganese	-111 (2)	86 (2)	75-125	25*	20	367		315		15	20
Phosphorus	7 (2)	106 (2)	75-125	17	20	533		491		8	20
Potassium	16 (2)	117 (2)	75-125	22*	20	4,050		3,410		17	20
Sodium	97	99	75-125	16	20	114		225		66* (1)	20
Strontium	95	99	75-115	17	20	17.5		21.0		18	20
Tin	90	89	80-110	14	20	3.29	J	2.99	J	10 (1)	20
Titanium	-63 (2)	272 (2)	75-125	23*	20	1,320		1,200		10	20
Zirconium	94	93	75-125	15	20	3.81	J	4.60	J	19 (1)	20
Batch number: 112075711004	Sample number(s): 6349714 UNSPK: 6349714 BKG: 6349714										
Mercury	112	109	65-135	3	20	0.0067	U	0.0094	J	200* (1)	20
Batch number: 11209495201A	Sample number(s): 6349710-6349719 UNSPK: 6349710 BKG: 6349710										
7a Perchlorate EPA 314.0	94		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11209495201B	Sample number(s): 6349720-6349724 UNSPK: 6349720 BKG: 6349720										
7a Perchlorate EPA 314.0	96		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11209621201A	Sample number(s): 6349710-6349719 UNSPK: 6349710 BKG: 6349710										
11a Anions by 300.0 - Fluoride	57*		80-120			1.5		1.8		14 (1)	20
Batch number: 11209621201B	Sample number(s): 6349720-6349724 UNSPK: 6349720 BKG: 6349720										
11a Anions by 300.0 - Fluoride	73*		80-120			0.80	U	0.80	U	0 (1)	20
Batch number: 11214243201A	Sample number(s): 6349710-6349724 UNSPK: 6349724 BKG: 6349724										
3a Cr VI by EPA 7199	93		75-125			0.20	U	0.20	U	0 (1)	20
Batch number: 11213039401A	Sample number(s): 6349710-6349718 BKG: 6349711										
18a pH by 9045C						6.56		6.56		0	3
Batch number: 11213039401B	Sample number(s): 6349719-6349724 BKG: P351911										
18a pH by 9045C						6.91		6.91		0	3
Batch number: 11207162401A	Sample number(s): 6349710-6349716 BKG: 6349716										
Moisture Content by 160.3						8.1		8.0		1	20
Batch number: 11207162401B	Sample number(s): 6349717-6349724 BKG: 6349723										
Moisture Content by 160.3						8.1		7.8		4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257182
Reported: 09/08/11 at 01:37 PM

Surrogate Quality Control

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B112011AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6349721	108	104	94	95
6349723	110	103	96	95
Blank	111	108	93	95
LCS	106	104	98	106
MS	106	103	100	106
MSD	105	101	101	105
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E112011AA

	Toluene-d8
6349725	102
Blank	101
LCS	102
LCSD	102
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E112062AA

	Toluene-d8
6349721	99
6349723	98
Blank	99
LCS	99
LCSD	99
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y112062AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6349725	100	107	92	89
Blank	101	107	91	88
LCS	101	108	92	92
LCSD	101	107	93	91
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11204WAC026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6349726	46	28	107	100	100	94
Blank	46	27	105	97	99	95
LCS	48	30	105	96	98	90
LCSD	50	31	106	99	98	92
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257182
Reported: 09/08/11 at 01:37 PM

Surrogate Quality Control

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11206WAC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6349726	103	95	106
Blank	102	99	104
LCS	102	96	101
LCSD	104	96	102
Limits:	40-130	45-130	45-135

Analysis Name: 15b NDMA by 1625C
Batch number: 11207WAA026

	N-Nitrosodimethylamine-d6
6349726	167*
Blank	102
LCS	106
LCSD	102
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11209SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6349710	122	108	110
6349711	117	97	77
6349712	118	100	87
6349713	110	90	78
6349714	100	87	78
6349715	107	92	98
6349716	109	100	104
6349717	99	94	101
6349718	102	93	101
6349719	106	96	102
6349720	89	86	95
6349721	103	98	104
6349722	52	58	56
6349723	97	94	110
6349724	92	90	111
Blank	125	109	113
LCS	115	100	101
MS	116	99	100
MSD	125	103	95
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11209SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6349710	98	94	88	89	94	86
6349711	98	94	84	94	96	83
6349712	93	90	86	90	95	85

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257182
Reported: 09/08/11 at 01:37 PM

Surrogate Quality Control

6349713	95	94	75	89	94	80
6349714	95	91	79	92	96	83
6349715	91	87	85	92	94	84
6349716	101	97	86	93	99	83
6349717	89	85	87	88	93	85
6349718	92	90	85	92	95	85
6349719	95	91	77	89	94	83
6349720	95	92	90	91	98	88
6349721	93	82	22*	91	93	83
6349722	96	87	50	87	96	84
6349723	98	94	84	91	94	84
6349724	91	86	100	87	85	84
Blank	99	96	98	94	93	86
LCS	104	97	101	91	88	85
MS	101	97	92	92	96	84
MSD	97	92	87	91	95	85
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11206A34A

	Trifluorotoluene-F
6349721	120
6349722	121
6349723	73
6349724	78
Blank	80
LCS	89
LCSD	85
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11206C20A

	Trifluorotoluene-F
6349725	98
Blank	97
LCS	130
LCSD	134
Limits:	63-135

Analysis Name: 25b Formaldehyde 8315A
Batch number: 112010002A

	Butyraldehyde
6349726	91
Blank	74
LCS	90
LCSD	79
Limits:	45-145

Analysis Name: 16b Energetics by 8330A
Batch number: 112070006A

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257182
Reported: 09/08/11 at 01:37 PM

Surrogate Quality Control

	2-Nitro-m-xylene
6349726	101
Blank	104
LCS	104
LCSD	104
Limits:	50-134

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 112070015A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6349726	109	82
Blank	105	77
LCS	107	91
LCSD	110	85
Limits:	30-150	45-120

Analysis Name: 12b Pesticides by 8081A
Batch number: 112070016A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6349726	111	91
Blank	114	94
LCS	112	93
LCSD	112	99
Limits:	52-141	40-144

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 112070028A

	2,4-Dichlorophenylacetic acid
6349726	82
Blank	81
LCS	97
LCSD	94
Limits:	35-144

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112090026A

	2,4-Dichlorophenylacetic acid
6349710	76
6349711	76
6349712	79
6349713	67
6349714	80
6349715	44
6349716	83
6349717	63
6349718	65

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257182
Reported: 09/08/11 at 01:37 PM

Surrogate Quality Control

6349719	83
6349720	47
Blank	123
LCS	141
MS	66
MSD	85
Limits:	36-156

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112100003A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6349710	104	86
6349711	102	77
6349712	94	83
6349713	71	61
6349714	121	110
6349715	83	67
6349716	78	59
6349717	106	89
6349718	85	72
6349719	180*	149*
6349720	88	78
6349721	78	287*
6349722	81	92
6349723	102	90
6349724	109	89
Blank	105	111
LCS	104	107
LCSD	103	113
MS	89	63
MSD	96	67
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 112100006A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6349710	51	59
6349711	53	69
6349712	45*	41
6349713	54	111
6349714	41	47
6349715	48*	90
6349716	49	39*
6349717	58	84
6349718	53	390*
6349719	40*	36
6349720	47*	91
Blank	61	97
LCS	40*	81
MS	33*	45
MSD	49*	79
Limits:	50-130	20-120

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257182
Reported: 09/08/11 at 01:37 PM

Surrogate Quality Control

Analysis Name: 21a Glycols by 8015B
Batch number: 112010013A

	Tetramethylene glycol
6349712	85
6349713	91
6349714	85
6349715	92
6349721	91
6349722	94
6349723	92
6349724	90
Blank	92
LCS	97
MS	87
MSD	89
Limits:	29-137

Analysis Name: 21b Glycols by 8015B
Batch number: 112020001A

	Tetramethylene glycol
6349726	96
Blank	112
LCS	111
LCSD	116
Limits:	77-119

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 112020035A

	Chlorobenzene	Orthoterphenyl
6349726	91	95
Blank	83	94
LCS	85	104
LCSD	84	103
Limits:	28-152	52-131

Analysis Name: 20b Terphenyls by 8015B
Batch number: 112020037A

	n-Triacontane-d62
6349726	84
Blank	86
LCS	83
LCSD	87
Limits:	50-150

Analysis Name: 19a Alcohols by 8015B
Batch number: 112070029A

	Acetone
6349712	101

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257182
Reported: 09/08/11 at 01:37 PM

Surrogate Quality Control

6349713	111
6349714	95
6349715	115
6349721	89
6349722	86
6349723	86
6349724	87
Blank	96
LCS	93
LCSD	93

Limits: 42-138

Analysis Name: 19b Alcohols by 8015B
Batch number: 112090041A

	Acetone
6349726	100
Blank	108
LCS	106
MS	102
MSD	101

Limits: 54-147

Analysis Name: 20a Terphenyls by 8015B
Batch number: 112100010A

	n-Triacontane-d62
6349712	62
6349713	91
6349714	61
6349715	61
6349721	70
6349722	83
6349723	62
6349724	80
Blank	87
LCS	83
MS	51
MSD	60

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112100019A

	Chlorobenzene	Orthoterphenyl
6349712	66	84
6349713	77	88
6349714	83	97
6349715	80	100
6349721	73	100
6349722	76	100
6349723	63	83
6349724	61	83
Blank	68	92

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257182
Reported: 09/08/11 at 01:37 PM

Surrogate Quality Control

LCS	79	92
MS	83	99
MSD	85	102
Limits:	37-125	47-145

*- Outside of specification
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13013 / 1257182 / 6349710-26

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subares 6 (SA6) only, also report Tetratin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**Pesticides EPA 8081A (surface soil only)	**Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-151-SA6-SS-0.0-0.5	7/19/11	0936	SOIL	NONE	1-SS Sleeve			X	X																	
SL-151-SA6-SS-0.0-0.5	7/19/11	0936	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X	X	X	X							X	X	X	
SL-154-SA6-SS-0.0-0.5	7/19/11	1008	SOIL	NONE	1-SS Sleeve				X																	
SL-154-SA6-SS-0.0-0.5	7/19/11	1008	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X							X	X	X	
SL-166-SA6-SS-0.0-0.5	7/19/11	1509	SOIL	NONE	1-SS Sleeve			X	X																	
SL-166-SA6-SS-0.0-0.5	7/19/11	1509	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-168-SA6-SS-0.0-0.5	7/19/11	1302	SOIL	NONE	1-SS Sleeve				X																	
SL-168-SA6-SS-0.0-0.5	7/19/11	1302	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-169-SA6-SS-0.0-0.5	7/19/11	1327	SOIL	NONE	1-SS Sleeve			X	X																	
SL-169-SA6-SS-0.0-0.5	7/19/11	1327	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-171-SA6-SS-0.0-0.5	7/19/11	1321	SOIL	NONE	1-SS Sleeve				X																	
SL-171-SA6-SS-0.0-0.5	7/19/11	1321	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X							X	X	X	
SL-172-SA6-SS-0.0-0.5	7/19/11	1118	SOIL	NONE	1-SS Sleeve			X	X																	
SL-172-SA6-SS-0.0-0.5	7/19/11	1118	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
SL-174-SA6-SS-0.0-0.5	7/19/11	0816	SOIL	NONE	1-SS Sleeve			X	X																	
SL-174-SA6-SS-0.0-0.5	7/19/11	0816	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
SL-178-SA6-SS-0.0-0.5	7/19/11	0840	SOIL	NONE	1-SS Sleeve			X	X																	
SL-178-SA6-SS-0.0-0.5	7/19/11	0840	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
SL-186-SA6-SS-0.0-0.5	7/19/11	0821	SOIL	NONE	1-SS Sleeve			X	X																	
SL-186-SA6-SS-0.0-0.5	7/19/11	0821	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
SL-301-SA6-SS-0.0-0.5	7/19/11	0801	SOIL	NONE	1-SS Sleeve			X	X																	
SL-301-SA6-SS-0.0-0.5	7/19/11	0801	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	07/19/2011 / 1600	7/20/11 0915	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No(s)	
		8754 3340 9755,9722,9733,9744	

13013 / 1257182 / 6349710-26

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subareas 6 (SA5) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furans EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-084-SA6-SB-4.5	7/19/11	0930	SOIL	NONE	5-Encores										X	X	X										
SL-084-SA6-SB-4.0-5.0	7/19/11	0935	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-084-SA6-SB-9.5	7/19/11	0940	SOIL	NONE	1-Encore												X										
SL-084-SA6-SB-9.0-10.0	7/19/11	0945	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X					X						X	X	X	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TB-071911	7/19/11	0800	SOIL	NONE	4-40mL Vials										X	X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	07/19/2011 / 1800	7/20/11 915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3340 9755,9722,9733,9744	

13013/125782/6349710-26

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
EB-SA6-SS-071911	07.19.11	1300	WATER	NONE	11-1 liter ambers			X	X	X					X	X	X			X	X		X			
EB-SA6-SS-071911	07.19.11	1300	WATER	NONE	1-500 mL poly		X				X	X	X													
EB-SA6-SS-071911	07.19.11	1300	WATER	HNO3	1-500 mL poly	X																				
EB-SA6-SS-071911	07.19.11	1300	WATER	NaOH	1-500 mL glass																	X				
EB-SA6-SS-071911	07.19.11	1300	WATER	NONE	1-250 mL glass														X							
EB-SA6-SS-071911	07.19.11	1300	WATER	HCl	2-40 mL vials																				X	
EB-SA6-SS-071911	07.12.11	1300	WATER	NONE	4-40 mL vials													X						X		

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	07/19/2011 / 1600	7/20/11 915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3340 9755,9722,9733,9744	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 17, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/20/2011
Group Number: 1257191
SDG: DX115
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-151-SA6-SS-0.0-0.5 Soil	6349739
SL-154-SA6-SS-0.0-0.5 Soil	6349740
SL-166-SA6-SS-0.0-0.5 Soil	6349741
SL-168-SA6-SS-0.0-0.5 Soil	6349742
SL-169-SA6-SS-0.0-0.5 Soil	6349743
SL-171-SA6-SS-0.0-0.5 Soil	6349744
SL-172-SA6-SS-0.0-0.5 Soil	6349745
SL-174-SA6-SS-0.0-0.5 Soil	6349746
SL-178-SA6-SS-0.0-0.5 Soil	6349747
SL-185-SA6-SS-0.0-0.5 Soil	6349748
SL-301-SA6-SS-0.0-0.5 Soil	6349749
SL-084-SA6-SB-4.0-5.0 Soil	6349750
SL-084-SA6-SB-9.0-10.0 Soil	6349751
SL-085-SA6-SB-4.0-5.0 Soil	6349752
SL-085-SA6-SB-7.0-8.0 Soil	6349753
EB-SA6-SS-071911 Water	6349754

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC	CDM Federal Services Program	Attn: Todd Burgesser
COPY TO		
ELECTRONIC	Data Package Group	

Lancaster Laboratories

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Analysis Report

COPY TO

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-151-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA6-SS-0.0-0.5

LLI Sample # SW 6349739
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:36

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1501 SDG#: DX115-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.99	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-151-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA6-SS-0.0-0.5

LLI Sample # SW 6349739
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:36

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1501 SDG#: DX115-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0808	J	0.0372	0.988	1
11031	12378-PeCDD	40321-76-4	0.610	JB	0.0630	4.94	1
11031	123478-HxCDD	39227-28-6	0.961	JB	0.0704	4.94	1
11031	123678-HxCDD	57653-85-7	3.17	JB	0.0714	4.94	1
11031	123789-HxCDD	19408-74-3	2.21	JB	0.0704	4.94	1
11031	1234678-HpCDD	35822-46-9	72.7	B	0.117	4.94	1
11031	OCDD	3268-87-9	1,020	B	0.139	9.88	1
11031	2378-TCDF	51207-31-9	0.528	JB	0.113	0.988	1
11031	12378-PeCDF	57117-41-6	0.663	JB	0.0473	4.94	1
11031	23478-PeCDF	57117-31-4	0.860	JB	0.0428	4.94	1
11031	123478-HxCDF	70648-26-9	0.774	JB	0.0569	4.94	1
11031	123678-HxCDF	57117-44-9	0.568	JB	0.0557	4.94	1
11031	123789-HxCDF	72918-21-9	0.436	JB	0.0568	4.94	1
11031	234678-HxCDF	60851-34-5	0.683	JB	0.0527	4.94	1
11031	1234678-HpCDF	67562-39-4	8.39	B	0.0434	4.94	1
11031	1234789-HpCDF	55673-89-7	0.775	JB	0.0525	4.94	1
11031	OCDF	39001-02-0	17.9	B	0.0401	9.88	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	79	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-151-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA6-SS-0.0-0.5

LLI Sample # SW 6349739
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:36

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1501 SDG#: DX115-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-151-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA6-SS-0.0-0.5

LLI Sample # SW 6349739
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:36

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1501 SDG#: DX115-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11210001	08/01/2011 17:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11210001	07/29/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401A	07/26/2011 20:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-154-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA6-SS-0.0-0.5

LLI Sample # SW 6349740
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 10:08

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1502 SDG#: DX115-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-154-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA6-SS-0.0-0.5

LLI Sample # SW 6349740
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 10:08

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1502 SDG#: DX115-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.230	JQ	0.0324	1.00	1
11031	12378-PeCDD	40321-76-4	1.95	JB	0.0598	5.01	1
11031	123478-HxCDD	39227-28-6	2.96	JB	0.0639	5.01	1
11031	123678-HxCDD	57653-85-7	6.84	B	0.0662	5.01	1
11031	123789-HxCDD	19408-74-3	5.99	B	0.0610	5.01	1
11031	1234678-HpCDD	35822-46-9	196	B	0.134	5.01	1
11031	OCDD	3268-87-9	3,040	B	0.133	10.0	1
11031	2378-TCDF	51207-31-9	0.203	JBQ	0.0624	1.00	1
11031	12378-PeCDF	57117-41-6	0.532	JB	0.0372	5.01	1
11031	23478-PeCDF	57117-31-4	0.489	JBQ	0.0331	5.01	1
11031	123478-HxCDF	70648-26-9	1.29	JB	0.0552	5.01	1
11031	123678-HxCDF	57117-44-9	0.642	JB	0.0540	5.01	1
11031	123789-HxCDF	72918-21-9	0.381	JB	0.0562	5.01	1
11031	234678-HxCDF	60851-34-5	0.755	JB	0.0510	5.01	1
11031	1234678-HpCDF	67562-39-4	20.1	B	0.0520	5.01	1
11031	1234789-HpCDF	55673-89-7	1.36	JB	0.0700	5.01	1
11031	OCDF	39001-02-0	81.3	B	0.0436	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	99	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	83	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-154-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA6-SS-0.0-0.5

LLI Sample # SW 6349740
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 10:08

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1502 SDG#: DX115-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-154-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA6-SS-0.0-0.5

LLI Sample # SW 6349740
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 10:08

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1502 SDG#: DX115-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11210001	08/01/2011 18:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11210001	07/29/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401A	07/26/2011 20:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-166-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA6-SS-0.0-0.5

LLI Sample # SW 6349741
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 15:09

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1503 SDG#: DX115-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.92	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-166-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA6-SS-0.0-0.5

LLI Sample # SW 6349741
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 15:09

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1503 SDG#: DX115-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0489	JQ	0.0384	1.00	1
11031	12378-PeCDD	40321-76-4	0.372	JBQ	0.0396	5.02	1
11031	123478-HxCDD	39227-28-6	0.568	JB	0.0674	5.02	1
11031	123678-HxCDD	57653-85-7	1.50	JB	0.0688	5.02	1
11031	123789-HxCDD	19408-74-3	1.31	JB	0.0660	5.02	1
11031	1234678-HpCDD	35822-46-9	39.6	B	0.0820	5.02	1
11031	OCDD	3268-87-9	613	B	0.0995	10.0	1
11031	2378-TCDF	51207-31-9	0.0395	U	0.0395	1.00	1
11031	12378-PeCDF	57117-41-6	0.0963	JBQ	0.0221	5.02	1
11031	23478-PeCDF	57117-31-4	0.177	JB	0.0203	5.02	1
11031	123478-HxCDF	70648-26-9	0.325	JB	0.0343	5.02	1
11031	123678-HxCDF	57117-44-9	0.214	JBQ	0.0319	5.02	1
11031	123789-HxCDF	72918-21-9	0.211	JBQ	0.0351	5.02	1
11031	234678-HxCDF	60851-34-5	0.250	JBQ	0.0318	5.02	1
11031	1234678-HpCDF	67562-39-4	4.16	JB	0.0279	5.02	1
11031	1234789-HpCDF	55673-89-7	0.268	JB	0.0359	5.02	1
11031	OCDF	39001-02-0	7.06	JB	0.0357	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	79	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-166-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA6-SS-0.0-0.5

LLI Sample # SW 6349741
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 15:09

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1503 SDG#: DX115-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-166-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA6-SS-0.0-0.5

LLI Sample # SW 6349741
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 15:09

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1503 SDG#: DX115-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11210001	08/01/2011 19:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11210001	07/29/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401A	07/26/2011 20:29	Scott W Freisher	1

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Analysis Report

Sample Description: SL-168-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA6-SS-0.0-0.5

LLI Sample # SW 6349742
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:02

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1504 SDG#: DX115-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.74	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-168-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA6-SS-0.0-0.5

LLI Sample # SW 6349742
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:02

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1504 SDG#: DX115-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.120	J	0.0270	0.979	1
11031	12378-PeCDD	40321-76-4	0.650	JB	0.0430	4.90	1
11031	123478-HxCDD	39227-28-6	0.928	JB	0.0678	4.90	1
11031	123678-HxCDD	57653-85-7	3.00	JB	0.0666	4.90	1
11031	123789-HxCDD	19408-74-3	2.49	JB	0.0654	4.90	1
11031	1234678-HpCDD	35822-46-9	78.3	B	0.0855	4.90	1
11031	OCDD	3268-87-9	1,620	B	0.115	9.79	1
11031	2378-TCDF	51207-31-9	0.174	JBQ	0.0465	0.979	1
11031	12378-PeCDF	57117-41-6	0.149	JBQ	0.0226	4.90	1
11031	23478-PeCDF	57117-31-4	0.406	JBQ	0.0206	4.90	1
11031	123478-HxCDF	70648-26-9	0.479	JB	0.0397	4.90	1
11031	123678-HxCDF	57117-44-9	0.378	JB	0.0347	4.90	1
11031	123789-HxCDF	72918-21-9	0.271	JB	0.0329	4.90	1
11031	234678-HxCDF	60851-34-5	0.349	JB	0.0290	4.90	1
11031	1234678-HpCDF	67562-39-4	8.04	B	0.0389	4.90	1
11031	1234789-HpCDF	55673-89-7	0.429	JB	0.0414	4.90	1
11031	OCDF	39001-02-0	25.1	B	0.0505	9.79	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-168-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA6-SS-0.0-0.5

LLI Sample # SW 6349742
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:02

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1504 SDG#: DX115-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-168-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA6-SS-0.0-0.5

LLI Sample # SW 6349742
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:02

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1504 SDG#: DX115-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11210001	08/01/2011 20:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11210001	07/29/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401A	07/26/2011 20:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-169-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-169-SA6-SS-0.0-0.5

LLI Sample # SW 6349743
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:27

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1505 SDG#: DX115-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.98	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-169-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-169-SA6-SS-0.0-0.5

LLI Sample # SW 6349743
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:27

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1505 SDG#: DX115-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	1.99	0.0645	0.977	1
11031	12378-PeCDD	40321-76-4	16.5 B	0.142	4.88	1
11031	123478-HxCDD	39227-28-6	28.6 B	0.139	4.88	1
11031	123678-HxCDD	57653-85-7	79.5 B	0.144	4.88	1
11031	123789-HxCDD	19408-74-3	63.3 B	0.132	4.88	1
11031	1234678-HpCDD	35822-46-9	2,380 EB	0.369	4.88	1
11031	OCDD	3268-87-9	71,800 EB	0.726	9.77	1
11650	2378-TCDF-Conf	51207-31-9	2.83 BC	0.0887	0.977	1
11031	12378-PeCDF	57117-41-6	4.12 JB	0.101	4.88	1
11031	23478-PeCDF	57117-31-4	6.88 B	0.0899	4.88	1
11031	123478-HxCDF	70648-26-9	19.0 B	0.109	4.88	1
11031	123678-HxCDF	57117-44-9	7.61 B	0.100	4.88	1
11031	123789-HxCDF	72918-21-9	0.0923 U	0.0923	4.88	1
11031	234678-HxCDF	60851-34-5	5.22 B	0.0784	4.88	1
11031	1234678-HpCDF	67562-39-4	111 B	0.0906	4.88	1
11031	1234789-HpCDF	55673-89-7	8.89 B	0.100	4.88	1
11031	OCDF	39001-02-0	524 B	0.101	9.77	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-2378-TCDF-Conf	77	24 - 169
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	71	17 - 157
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	73	29 - 147

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-169-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-169-SA6-SS-0.0-0.5

LLI Sample # SW 6349743
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:27

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1505 SDG#: DX115-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	65	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-169-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-169-SA6-SS-0.0-0.5

LLI Sample # SW 6349743
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:27

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1505 SDG#: DX115-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11210001	08/01/2011 21:38	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11210001	08/06/2011 08:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11210001	07/29/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401A	07/26/2011 20:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-171-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA6-SS-0.0-0.5

LLI Sample # SW 6349744
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 14:21

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1506 SDG#: DX115-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-171-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA6-SS-0.0-0.5

LLI Sample # SW 6349744
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 14:21

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1506 SDG#: DX115-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0195	U	0.0195	0.996	1
11031	12378-PeCDD	40321-76-4	0.558	JB	0.0278	4.98	1
11031	123478-HxCDD	39227-28-6	0.632	JB	0.0398	4.98	1
11031	123678-HxCDD	57653-85-7	1.41	JB	0.0406	4.98	1
11031	123789-HxCDD	19408-74-3	1.56	JB	0.0376	4.98	1
11031	1234678-HpCDD	35822-46-9	31.3	B	0.0538	4.98	1
11031	OCDD	3268-87-9	695	B	0.0682	9.96	1
11031	2378-TCDF	51207-31-9	0.119	JBQ	0.0217	0.996	1
11031	12378-PeCDF	57117-41-6	0.231	JB	0.0143	4.98	1
11031	23478-PeCDF	57117-31-4	0.316	JB	0.0121	4.98	1
11031	123478-HxCDF	70648-26-9	0.219	JBQ	0.0228	4.98	1
11031	123678-HxCDF	57117-44-9	0.173	JB	0.0218	4.98	1
11031	123789-HxCDF	72918-21-9	0.223	JBQ	0.0204	4.98	1
11031	234678-HxCDF	60851-34-5	0.209	JB	0.0180	4.98	1
11031	1234678-HpCDF	67562-39-4	1.58	JB	0.0140	4.98	1
11031	1234789-HpCDF	55673-89-7	0.108	JBQ	0.0152	4.98	1
11031	OCDF	39001-02-0	5.85	JB	0.0285	9.96	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	85	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-171-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA6-SS-0.0-0.5

LLI Sample # SW 6349744
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 14:21

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1506 SDG#: DX115-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-171-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA6-SS-0.0-0.5

LLI Sample # SW 6349744
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 14:21

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1506 SDG#: DX115-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11210001	08/02/2011 16:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11210001	07/29/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401A	07/26/2011 20:29	Scott W Freisher	1

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Analysis Report

Sample Description: SL-172-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA6-SS-0.0-0.5

LLI Sample # SW 6349745
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:18

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1507 SDG#: DX115-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-172-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA6-SS-0.0-0.5

LLI Sample # SW 6349745
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:18

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1507 SDG#: DX115-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0595	JQ	0.0254	1.06	1
11031	12378-PeCDD	40321-76-4	0.185	JBQ	0.0313	5.32	1
11031	123478-HxCDD	39227-28-6	0.329	JB	0.0585	5.32	1
11031	123678-HxCDD	57653-85-7	1.38	JB	0.0575	5.32	1
11031	123789-HxCDD	19408-74-3	0.901	JB	0.0573	5.32	1
11031	1234678-HpCDD	35822-46-9	50.0	B	0.0888	5.32	1
11031	OCDD	3268-87-9	1,510	B	0.125	10.6	1
11031	2378-TCDF	51207-31-9	0.0594	JBQ	0.0332	1.06	1
11031	12378-PeCDF	57117-41-6	0.393	JB	0.0326	5.32	1
11031	23478-PeCDF	57117-31-4	0.870	JB	0.0289	5.32	1
11031	123478-HxCDF	70648-26-9	0.590	JB	0.0410	5.32	1
11031	123678-HxCDF	57117-44-9	0.193	JB	0.0396	5.32	1
11031	123789-HxCDF	72918-21-9	0.203	JB	0.0395	5.32	1
11031	234678-HxCDF	60851-34-5	0.214	JB	0.0343	5.32	1
11031	1234678-HpCDF	67562-39-4	2.90	JB	0.0310	5.32	1
11031	1234789-HpCDF	55673-89-7	0.148	JBQ	0.0356	5.32	1
11031	OCDF	39001-02-0	11.1	B	0.0639	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	90	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	93	32 - 141
13C12-123678-HxCDD	98	28 - 130
13C12-123789-HxCDD	96	28 - 130
13C12-1234678-HpCDD	103	23 - 140
13C12-OCDD	106	17 - 157
13C12-2378-TCDF	92	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	94	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	90	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	92	26 - 138
13C12-OCDF	93	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-172-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA6-SS-0.0-0.5

LLI Sample # SW 6349745
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:18

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1507 SDG#: DX115-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-172-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA6-SS-0.0-0.5

LLI Sample # SW 6349745
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:18

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1507 SDG#: DX115-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11210001	08/02/2011 02:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11210001	07/29/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401A	07/26/2011 20:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-174-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA6-SS-0.0-0.5

LLI Sample # SW 6349746
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:16

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1508 SDG#: DX115-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-174-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA6-SS-0.0-0.5

LLI Sample # SW 6349746
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:16

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1508 SDG#: DX115-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0267	U	0.0267	0.966	1
11031	12378-PeCDD	40321-76-4	0.108	JB	0.0271	4.83	1
11031	123478-HxCDD	39227-28-6	0.177	JBQ	0.0427	4.83	1
11031	123678-HxCDD	57653-85-7	0.383	JB	0.0426	4.83	1
11031	123789-HxCDD	19408-74-3	0.439	JB	0.0401	4.83	1
11031	1234678-HpCDD	35822-46-9	10.5	B	0.0515	4.83	1
11031	OCDD	3268-87-9	139	B	0.0507	9.66	1
11031	2378-TCDF	51207-31-9	0.128	JBQ	0.0427	0.966	1
11031	12378-PeCDF	57117-41-6	0.156	JB	0.0280	4.83	1
11031	23478-PeCDF	57117-31-4	0.491	JB	0.0275	4.83	1
11031	123478-HxCDF	70648-26-9	0.344	JB	0.0291	4.83	1
11031	123678-HxCDF	57117-44-9	0.147	JB	0.0261	4.83	1
11031	123789-HxCDF	72918-21-9	0.0911	JB	0.0325	4.83	1
11031	234678-HxCDF	60851-34-5	0.198	JB	0.0279	4.83	1
11031	1234678-HpCDF	67562-39-4	1.69	JB	0.0171	4.83	1
11031	1234789-HpCDF	55673-89-7	0.132	JBQ	0.0275	4.83	1
11031	OCDF	39001-02-0	4.02	JB	0.0319	9.66	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-174-SA6-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-174-SA6-SS-0.0-0.5

LLI Sample # SW 6349746
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:16

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1508 SDG#: DX115-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-174-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA6-SS-0.0-0.5

LLI Sample # SW 6349746
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:16

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1508 SDG#: DX115-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11210001	08/02/2011 03:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11210001	07/29/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401B	07/26/2011 20:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-178-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-178-SA6-SS-0.0-0.5

LLI Sample # SW 6349747
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:40

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1509 SDG#: DX115-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.98	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-178-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-178-SA6-SS-0.0-0.5

LLI Sample # SW 6349747
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:40

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1509 SDG#: DX115-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.330	JQ	0.0363	0.965	1
11031	12378-PeCDD	40321-76-4	3.02	JB	0.0973	4.82	1
11031	123478-HxCDD	39227-28-6	6.24	B	0.0912	4.82	1
11031	123678-HxCDD	57653-85-7	11.3	B	0.0891	4.82	1
11031	123789-HxCDD	19408-74-3	12.8	B	0.0872	4.82	1
11031	1234678-HpCDD	35822-46-9	321	B	0.171	4.82	1
11031	OCDD	3268-87-9	3,000	B	0.148	9.65	1
11650	2378-TCDF-Conf	51207-31-9	0.792	JBC	0.0572	0.965	1
11031	12378-PeCDF	57117-41-6	1.84	JB	0.0807	4.82	1
11031	23478-PeCDF	57117-31-4	3.23	JB	0.0728	4.82	1
11031	123478-HxCDF	70648-26-9	4.10	JB	0.0864	4.82	1
11031	123678-HxCDF	57117-44-9	3.34	JB	0.0856	4.82	1
11031	123789-HxCDF	72918-21-9	0.628	JB	0.0851	4.82	1
11031	234678-HxCDF	60851-34-5	5.09	B	0.0830	4.82	1
11031	1234678-HpCDF	67562-39-4	76.5	B	0.0658	4.82	1
11031	1234789-HpCDF	55673-89-7	5.13	B	0.0783	4.82	1
11031	OCDF	39001-02-0	214	B	0.0612	9.65	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-2378-TCDF-Conf	74	24 - 169
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	86	17 - 157
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	74	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-178-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-178-SA6-SS-0.0-0.5

LLI Sample # SW 6349747
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:40

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1509 SDG#: DX115-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-178-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-178-SA6-SS-0.0-0.5

LLI Sample # SW 6349747
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:40

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1509 SDG#: DX115-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11210001	08/02/2011 04:27	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11210001	08/06/2011 09:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11210001	07/29/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401B	07/26/2011 20:29	Scott W Freisher	1

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Analysis Report

Sample Description: SL-185-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-185-SA6-SS-0.0-0.5

LLI Sample # SW 6349748
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:21

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1510 SDG#: DX115-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-185-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-185-SA6-SS-0.0-0.5

LLI Sample # SW 6349748
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:21

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1510 SDG#: DX115-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0385	JQ	0.0267	1.04	1
11031	12378-PeCDD	40321-76-4	0.269	JB	0.0371	5.22	1
11031	123478-HxCDD	39227-28-6	0.471	JBQ	0.0528	5.22	1
11031	123678-HxCDD	57653-85-7	1.14	JB	0.0538	5.22	1
11031	123789-HxCDD	19408-74-3	1.02	JB	0.0518	5.22	1
11031	1234678-HpCDD	35822-46-9	32.0	B	0.0765	5.22	1
11031	OCDD	3268-87-9	557	B	0.0843	10.4	1
11031	2378-TCDF	51207-31-9	0.173	JB	0.0585	1.04	1
11031	12378-PeCDF	57117-41-6	0.773	JB	0.0501	5.22	1
11031	23478-PeCDF	57117-31-4	3.71	JB	0.0451	5.22	1
11031	123478-HxCDF	70648-26-9	0.619	JB	0.0423	5.22	1
11031	123678-HxCDF	57117-44-9	0.320	JB	0.0408	5.22	1
11031	123789-HxCDF	72918-21-9	0.139	JB	0.0447	5.22	1
11031	234678-HxCDF	60851-34-5	0.328	JB	0.0386	5.22	1
11031	1234678-HpCDF	67562-39-4	2.63	JB	0.0247	5.22	1
11031	1234789-HpCDF	55673-89-7	0.230	JB	0.0317	5.22	1
11031	OCDF	39001-02-0	6.97	JB	0.0328	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	81	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-185-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-185-SA6-SS-0.0-0.5

LLI Sample # SW 6349748
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:21

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1510 SDG#: DX115-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-185-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-185-SA6-SS-0.0-0.5

LLI Sample # SW 6349748
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:21

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1510 SDG#: DX115-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11210001	08/02/2011 05:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11210001	07/29/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401B	07/26/2011 20:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-301-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-301-SA6-SS-0.0-0.5

LLI Sample # SW 6349749
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:01

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1511 SDG#: DX115-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-301-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-301-SA6-SS-0.0-0.5

LLI Sample # SW 6349749
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:01

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1511 SDG#: DX115-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.140	J	0.0408	1.01	1
11031	12378-PeCDD	40321-76-4	0.518	JB	0.0584	5.05	1
11031	123478-HxCDD	39227-28-6	0.684	JB	0.0584	5.05	1
11031	123678-HxCDD	57653-85-7	1.45	JB	0.0607	5.05	1
11031	123789-HxCDD	19408-74-3	1.69	JB	0.0608	5.05	1
11031	1234678-HpCDD	35822-46-9	37.0	B	0.0813	5.05	1
11031	OCDD	3268-87-9	435	B	0.0783	10.1	1
11031	2378-TCDF	51207-31-9	0.946	JB	0.122	1.01	1
11031	12378-PeCDF	57117-41-6	0.728	JB	0.0510	5.05	1
11031	23478-PeCDF	57117-31-4	0.976	JB	0.0482	5.05	1
11031	123478-HxCDF	70648-26-9	1.84	JB	0.0612	5.05	1
11031	123678-HxCDF	57117-44-9	0.473	JB	0.0532	5.05	1
11031	123789-HxCDF	72918-21-9	0.322	JBQ	0.0642	5.05	1
11031	234678-HxCDF	60851-34-5	0.499	JB	0.0538	5.05	1
11031	1234678-HpCDF	67562-39-4	5.92	B	0.0306	5.05	1
11031	1234789-HpCDF	55673-89-7	0.463	JB	0.0487	5.05	1
11031	OCDF	39001-02-0	14.6	B	0.0401	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	63	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-301-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-301-SA6-SS-0.0-0.5

LLI Sample # SW 6349749
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:01

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1511 SDG#: DX115-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-301-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-301-SA6-SS-0.0-0.5

LLI Sample # SW 6349749
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 08:01

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1511 SDG#: DX115-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11210001	08/02/2011 06:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11210001	07/29/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401B	07/26/2011 20:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-084-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA6-SB-4.0-5.0

LLI Sample # SW 6349750
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:35

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1512 SDG#: DX115-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-084-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA6-SB-4.0-5.0

LLI Sample # SW 6349750
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:35

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1512 SDG#: DX115-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.308	J	0.0346	1.05	1
11031	12378-PeCDD	40321-76-4	3.91	JB	0.0720	5.26	1
11031	123478-HxCDD	39227-28-6	5.21	JB	0.100	5.26	1
11031	123678-HxCDD	57653-85-7	9.08	B	0.0992	5.26	1
11031	123789-HxCDD	19408-74-3	3.03	JB	0.0944	5.26	1
11031	1234678-HpCDD	35822-46-9	565	B	0.186	5.26	1
11031	OCDD	3268-87-9	5,160	EB	0.191	10.5	1
11031	2378-TCDF	51207-31-9	0.965	JB	0.0778	1.05	1
11031	12378-PeCDF	57117-41-6	0.624	JB	0.0378	5.26	1
11031	23478-PeCDF	57117-31-4	0.851	JB	0.0347	5.26	1
11031	123478-HxCDF	70648-26-9	1.25	JB	0.0545	5.26	1
11031	123678-HxCDF	57117-44-9	0.904	JB	0.0521	5.26	1
11031	123789-HxCDF	72918-21-9	0.271	JB	0.0550	5.26	1
11031	234678-HxCDF	60851-34-5	1.41	JB	0.0481	5.26	1
11031	1234678-HpCDF	67562-39-4	23.6	B	0.0581	5.26	1
11031	1234789-HpCDF	55673-89-7	2.76	JB	0.0688	5.26	1
11031	OCDF	39001-02-0	70.1	B	0.0441	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	72	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-084-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA6-SB-4.0-5.0

LLI Sample # SW 6349750
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:35

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1512 SDG#: DX115-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-084-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA6-SB-4.0-5.0

LLI Sample # SW 6349750
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:35

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1512 SDG#: DX115-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11210001	08/02/2011 07:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11210001	07/29/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401B	07/26/2011 20:29	Scott W Freisher	1

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Analysis Report

Sample Description: SL-084-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA6-SB-9.0-10.0

LLI Sample # SW 6349751
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:45

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1513 SDG#: DX115-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-084-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA6-SB-9.0-10.0

LLI Sample # SW 6349751
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:45

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1513 SDG#: DX115-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.133	J	0.0300	1.06	1
11031	12378-PeCDD	40321-76-4	0.586	JBQ	0.0566	5.32	1
11031	123478-HxCDD	39227-28-6	1.59	JB	0.0899	5.32	1
11031	123678-HxCDD	57653-85-7	11.0	B	0.0896	5.32	1
11031	123789-HxCDD	19408-74-3	4.00	JB	0.0865	5.32	1
11031	1234678-HpCDD	35822-46-9	407	B	0.157	5.32	1
11031	OCDD	3268-87-9	4,060	B	0.185	10.6	1
11650	2378-TCDF-Conf	51207-31-9	1.05	JBC	0.0405	1.06	1
11031	12378-PeCDF	57117-41-6	0.703	JB	0.0375	5.32	1
11031	23478-PeCDF	57117-31-4	1.21	JB	0.0373	5.32	1
11031	123478-HxCDF	70648-26-9	1.77	JB	0.0616	5.32	1
11031	123678-HxCDF	57117-44-9	1.25	JB	0.0555	5.32	1
11031	123789-HxCDF	72918-21-9	0.403	JB	0.0688	5.32	1
11031	234678-HxCDF	60851-34-5	2.18	JB	0.0584	5.32	1
11031	1234678-HpCDF	67562-39-4	26.3	B	0.0513	5.32	1
11031	1234789-HpCDF	55673-89-7	3.54	JB	0.0816	5.32	1
11031	OCDF	39001-02-0	62.4	B	0.0530	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-2378-TCDF-Conf	77	24 - 169
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	88	17 - 157
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-084-SA6-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-084-SA6-SB-9.0-10.0

LLI Sample # SW 6349751
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:45

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1513 SDG#: DX115-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-084-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA6-SB-9.0-10.0

LLI Sample # SW 6349751
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 09:45

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1513 SDG#: DX115-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11210001	08/02/2011 08:13	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11210001	08/06/2011 11:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11210001	07/29/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401B	07/26/2011 20:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-085-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA6-SB-4.0-5.0

LLI Sample # SW 6349752
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:10

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1514 SDG#: DX115-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-085-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA6-SB-4.0-5.0

LLI Sample # SW 6349752
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:10

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1514 SDG#: DX115-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0493 JQ	0.0317	1.08	1
11031	12378-PeCDD	40321-76-4	0.104 JBQ	0.0257	5.42	1
11031	123478-HxCDD	39227-28-6	0.0344 JBQ	0.0268	5.42	1
11031	123678-HxCDD	57653-85-7	0.0896 JB	0.0281	5.42	1
11031	123789-HxCDD	19408-74-3	0.105 JBQ	0.0280	5.42	1
11031	1234678-HpCDD	35822-46-9	1.56 JB	0.0529	5.42	1
11031	OCDD	3268-87-9	12.5 B	0.0398	10.8	1
11031	2378-TCDF	51207-31-9	0.0522 JBQ	0.0329	1.08	1
11031	12378-PeCDF	57117-41-6	0.292 JBQ	0.0250	5.42	1
11031	23478-PeCDF	57117-31-4	0.492 JBQ	0.0248	5.42	1
11031	123478-HxCDF	70648-26-9	0.445 JB	0.0354	5.42	1
11031	123678-HxCDF	57117-44-9	0.109 JBQ	0.0294	5.42	1
11031	123789-HxCDF	72918-21-9	0.0532 JBQ	0.0437	5.42	1
11031	234678-HxCDF	60851-34-5	0.0877 JBQ	0.0323	5.42	1
11031	1234678-HpCDF	67562-39-4	0.416 JB	0.0148	5.42	1
11031	1234789-HpCDF	55673-89-7	0.0540 JBQ	0.0328	5.42	1
11031	OCDF	39001-02-0	0.696 JB	0.0563	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	50	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-085-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA6-SB-4.0-5.0

LLI Sample # SW 6349752
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:10

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1514 SDG#: DX115-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-085-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA6-SB-4.0-5.0

LLI Sample # SW 6349752
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:10

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1514 SDG#: DX115-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11210001	08/02/2011 09:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11210001	07/29/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401B	07/26/2011 20:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-085-SA6-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA6-SB-7.0-8.0

LLI Sample # SW 6349753
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:20

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1515 SDG#: DX115-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-085-SA6-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA6-SB-7.0-8.0

LLI Sample # SW 6349753
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:20

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1515 SDG#: DX115-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0313 JQ	0.0234	1.08	1
11031	12378-PeCDD	40321-76-4	0.0215 U	0.0215	5.41	1
11031	123478-HxCDD	39227-28-6	0.0264 JBQ	0.0184	5.41	1
11031	123678-HxCDD	57653-85-7	0.0477 JB	0.0188	5.41	1
11031	123789-HxCDD	19408-74-3	0.0253 JBQ	0.0181	5.41	1
11031	1234678-HpCDD	35822-46-9	0.323 JB	0.0260	5.41	1
11031	OCDD	3268-87-9	1.09 JB	0.0294	10.8	1
11031	2378-TCDF	51207-31-9	0.0269 JBQ	0.0176	1.08	1
11031	12378-PeCDF	57117-41-6	0.0379 JBQ	0.0113	5.41	1
11031	23478-PeCDF	57117-31-4	0.0539 JB	0.0109	5.41	1
11031	123478-HxCDF	70648-26-9	0.0622 JB	0.0119	5.41	1
11031	123678-HxCDF	57117-44-9	0.0214 JBQ	0.0103	5.41	1
11031	123789-HxCDF	72918-21-9	0.0128 U	0.0128	5.41	1
11031	234678-HxCDF	60851-34-5	0.0280 JBQ	0.0104	5.41	1
11031	1234678-HpCDF	67562-39-4	0.0703 JB	0.00773	5.41	1
11031	1234789-HpCDF	55673-89-7	0.0264 JBQ	0.0158	5.41	1
11031	OCDF	39001-02-0	0.147 JB	0.0392	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	50	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-085-SA6-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA6-SB-7.0-8.0

LLI Sample # SW 6349753
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:20

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1515 SDG#: DX115-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-085-SA6-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA6-SB-7.0-8.0

LLI Sample # SW 6349753
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 11:20

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1515 SDG#: DX115-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11210001	08/02/2011 10:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11210001	07/29/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11207162401B	07/26/2011 20:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB-SA6-SS-071911 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-071911

LLI Sample # WW 6349754
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:00

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1516 SDG#: DX115-16EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l	pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.172 JBQ	0.0915	1.99	1
10915	12378-PeCDD	40321-76-4	0.0814 U	0.0814	9.96	1
10915	123478-HxCDD	39227-28-6	0.135 JBQ	0.0883	9.96	1
10915	123678-HxCDD	57653-85-7	0.273 JBQ	0.0918	9.96	1
10915	123789-HxCDD	19408-74-3	0.213 JBQ	0.0921	9.96	1
10915	1234678-HpCDD	35822-46-9	3.67 JB	0.124	9.96	1
10915	OCDD	3268-87-9	7.81 JB	0.0980	19.9	1
10915	2378-TCDF	51207-31-9	0.0901 JBQ	0.0749	1.99	1
10915	12378-PeCDF	57117-41-6	0.149 JB	0.0495	9.96	1
10915	23478-PeCDF	57117-31-4	0.309 JB	0.0456	9.96	1
10915	123478-HxCDF	70648-26-9	0.238 JBQ	0.0568	9.96	1
10915	123678-HxCDF	57117-44-9	0.163 JBQ	0.0550	9.96	1
10915	123789-HxCDF	72918-21-9	0.288 JBQ	0.0464	9.96	1
10915	234678-HxCDF	60851-34-5	0.104 JB	0.0519	9.96	1
10915	1234678-HpCDF	67562-39-4	0.550 JBQ	0.0524	9.96	1
10915	1234789-HpCDF	55673-89-7	0.319 JBQ	0.0593	9.96	1
10915	OCDF	39001-02-0	0.984 JB	0.105	19.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB-SA6-SS-071911 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-071911

LLI Sample # WW 6349754
LLI Group # 1257191
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/19/2011 13:00

Submitted: 07/20/2011 09:15
Reported: 08/17/2011 18:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1516 SDG#: DX115-16EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11224001	08/16/2011 15:01	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	2	11224001	08/12/2011 07:30	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257191
Reported: 08/17/11 at 06:13 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11207162401A	Sample number(s): 6349739-6349745								
Moisture Content by 160.3					100		80-120		
Batch number: 11207162401B	Sample number(s): 6349746-6349753								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11210001	Sample number(s): 6349739-6349753								
2378-TCDD	0.0381 U	0.0381	1.00	ng/kg	92		67-158		
12378-PeCDD	0.0724 J	0.0313	5.00	ng/kg	97		70-142		
123478-HxCDD	0.0831 J	0.0268	5.00	ng/kg	94		70-164		
123678-HxCDD	0.0751 J	0.0281	5.00	ng/kg	90		76-134		
123789-HxCDD	0.0786 J	0.0269	5.00	ng/kg	91		64-162		
1234678-HpCDD	1.10 J	0.0399	5.00	ng/kg	91		70-140		
OCDD	6.35 J	0.0304	10.0	ng/kg	90		78-144		
2378-TCDF	0.0475 J	0.0354	1.00	ng/kg	93		75-158		
2378-TCDF-Conf	0.0306 U	0.0306	1.00	ng/kg	93		75-158		
12378-PeCDF	0.0473 J	0.0166	5.00	ng/kg	92		80-134		
23478-PeCDF	0.0459 J	0.0151	5.00	ng/kg	88		68-160		
123478-HxCDF	0.0448 J	0.0206	5.00	ng/kg	85		72-134		
123678-HxCDF	0.0341 J	0.0199	5.00	ng/kg	86		84-130		
123789-HxCDF	0.0484 J	0.0127	5.00	ng/kg	86		78-130		
234678-HxCDF	0.0534 J	0.0116	5.00	ng/kg	87		70-156		
1234678-HpCDF	0.0960 J	0.0146	5.00	ng/kg	85		82-122		
1234789-HpCDF	0.0192 J	0.0142	5.00	ng/kg	87		78-138		
OCDF	0.174 J	0.0351	10.0	ng/kg	85		63-170		
Batch number: 11224001	Sample number(s): 6349754								
2378-TCDD	0.457 J	0.114	2.00	pg/l	92		67-158		
12378-PeCDD	0.437 J	0.111	10.0	pg/l	99		70-142		
123478-HxCDD	0.200 J	0.105	10.0	pg/l	101		70-164		
123678-HxCDD	0.373 J	0.108	10.0	pg/l	103		76-134		
123789-HxCDD	0.458 J	0.110	10.0	pg/l	102		64-162		
1234678-HpCDD	3.99 J	0.160	10.0	pg/l	104		70-140		
OCDD	8.97 J	0.188	20.0	pg/l	108		78-144		
2378-TCDF	0.139 J	0.0899	2.00	pg/l	97		75-158		
12378-PeCDF	0.280 J	0.0626	10.0	pg/l	101		80-134		
23478-PeCDF	0.450 J	0.0565	10.0	pg/l	99		68-160		
123478-HxCDF	0.405 J	0.0734	10.0	pg/l	109		72-134		
123678-HxCDF	0.218 J	0.0726	10.0	pg/l	108		84-130		
123789-HxCDF	0.595 J	0.0861	10.0	pg/l	107		78-130		
234678-HxCDF	0.268 J	0.0683	10.0	pg/l	106		70-156		
1234678-HpCDF	0.817 J	0.0717	10.0	pg/l	108		82-122		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257191
Reported: 08/17/11 at 06:13 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
1234789-HpCDF	0.551	J	0.0878	10.0	pg/l	108		78-138		
OCDF	1.57	J	0.164	20.0	pg/l	113		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11207162401A	Sample number(s): 6349739-6349745					BKG: P349716			
Moisture Content by 160.3						8.1	8.0	1	20
Batch number: 11207162401B	Sample number(s): 6349746-6349753					BKG: P349723			
Moisture Content by 160.3						8.1	7.8	4	20
Batch number: 11210001	Sample number(s): 6349739-6349753					UNSPK: P351934			
2378-TCDD	91	79	67-158	11	25				
12378-PeCDD	93	80	70-142	12	25				
123478-HxCDD	91	81	70-164	9	25				
123678-HxCDD	88	78	76-134	8	25				
123789-HxCDD	89	76	64-162	12	25				
1234678-HpCDD	92	80	70-140	9	25				
OCDD	119	89	78-144	11	25				
2378-TCDF	84	68*	75-158	18	25				
2378-TCDF-Conf	84	68*	75-158	18	25				
12378-PeCDF	88	74*	80-134	14	25				
23478-PeCDF	87	71	68-160	17	25				
123478-HxCDF	85	75	72-134	10	25				
123678-HxCDF	85	76*	84-130	9	25				
123789-HxCDF	84	76*	78-130	8	25				
234678-HxCDF	87	77	70-156	9	25				
1234678-HpCDF	86	77*	82-122	8	25				
1234789-HpCDF	87	78	78-138	7	25				
OCDF	86	76	63-170	9	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11210001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6349739	80	85	67	67	72	80
6349740	76	85	71	73	73	82
6349741	77	83	66	70	70	76
6349742	80	85	56	62	73	76
6349743	79	83	53	56	72	73
6349744	78	78	64	67	79	84
6349745	90	94	77	81	90	91

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257191
Reported: 08/17/11 at 06:13 PM

Surrogate Quality Control

6349746	78	81	73	80	74	76
6349747	75	78	67	69	70	78
6349748	78	83	74	76	78	83
6349749	75	76	60	68	69	68
6349750	76	79	65	66	70	73
6349751	81	84	71	77	74	72
6349752	73	75	63	73	66	60
6349753	70	74	62	71	69	67
Blank	72	82	46	46	78	82
MS	81	76	63	65	72	73
MSD	79	59	56	57	57	67
OPR	71	82	64	71	73	74

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6349739	74	76	79	85	77	78
6349740	81	79	83	82	79	79
6349741	78	76	79	83	78	78
6349742	64	71	59	84	80	80
6349743	61	68	65	84	77	77
6349744	73	80	85	76	77	78
6349745	87	92	93	93	93	98
6349746	97	71	70	84	83	84
6349747	74	74	74	78	73	76
6349748	86	80	81	82	81	82
6349749	83	65	63	78	75	79
6349750	72	74	72	78	75	77
6349751	90	70	66	85	81	82
6349752	96	56	50	78	78	78
6349753	93	59	50	77	80	79
Blank	66	80	84	83	80	82
MS	73	72	74	79	76	78
MSD	62	59	53	71	77	78
OPR	87	74	75	83	81	85

Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6349739	77	86	93	80	86	
6349740	79	90	99	75	84	
6349741	77	87	91	76	84	
6349742	80	78	67	81	84	
6349743	80	81	71		82	77
6349744	81	84	92	78	79	
6349745	96	103	106	92	95	
6349746	82	90	95	76	88	
6349747	75	82	86		79	74
6349748	81	90	92	79	84	
6349749	78	84	86	74	82	
6349750	77	83	84	77	79	
6349751	83	88	88		89	77
6349752	77	82	80	69	84	
6349753	80	85	81	69	81	
Blank	82	94	101	71	85	67
MS	79	85	88	80	80	80

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257191
Reported: 08/17/11 at 06:13 PM

Surrogate Quality Control

MSD	76	80	72	65	60	65
OPR	82	90	93	69	84	69
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11224001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6349754	72	66	65	66	72	91
Blank	71	63	67	67	70	68
OPR	65	61	60	62	64	78
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6349754	71	75	66	73	73	74
Blank	61	62	56	66	70	70
OPR	62	63	58	65	67	63
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6349754	75	77	67	62	66	
Blank	71	65	57	65	63	
OPR	66	64	59	58	60	58
Limits:	28-130	23-140	17-157	24-169	24-185	22-152

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 / 125 7191 / 6349739-54

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-151-SA6-SS-0.0-0.5	7/19/11	0936	SOIL	NONE	1-SS Sleeve			X	X																	
SL-151-SA6-SS-0.0-0.5	7/19/11	0936	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X	X	X	X										
SL-154-SA6-SS-0.0-0.5	7/19/11	1008	SOIL	NONE	1-SS Sleeve			X	X																	
SL-154-SA6-SS-0.0-0.5	7/19/11	1008	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X	X	X	X										
SL-166-SA6-SS-0.0-0.5	7/19/11	1509	SOIL	NONE	1-SS Sleeve			X	X																	
SL-166-SA6-SS-0.0-0.5	7/19/11	1509	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-168-SA6-SS-0.0-0.5	7/19/11	1302	SOIL	NONE	1-SS Sleeve			X	X																	
SL-168-SA6-SS-0.0-0.5	7/19/11	1302	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-169-SA6-SS-0.0-0.5	7/19/11	1327	SOIL	NONE	1-SS Sleeve			X	X																	
SL-169-SA6-SS-0.0-0.5	7/19/11	1327	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-171-SA6-SS-0.0-0.5	7/19/11	1421	SOIL	NONE	1-SS Sleeve			X	X																	
SL-171-SA6-SS-0.0-0.5	7/19/11	1421	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-172-SA6-SS-0.0-0.5	7/19/11	1118	SOIL	NONE	1-SS Sleeve			X	X																	
SL-172-SA6-SS-0.0-0.5	7/19/11	1118	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
SL-174-SA6-SS-0.0-0.5	7/19/11	0816	SOIL	NONE	1-SS Sleeve			X	X																	
SL-174-SA6-SS-0.0-0.5	7/19/11	0816	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
SL-178-SA6-SS-0.0-0.5	7/19/11	0840	SOIL	NONE	1-SS Sleeve			X	X																	
SL-178-SA6-SS-0.0-0.5	7/19/11	0840	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
SL-185-SA6-SS-0.0-0.5	7/19/11	0921	SOIL	NONE	1-SS Sleeve			X	X																	
SL-185-SA6-SS-0.0-0.5	7/19/11	0921	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
SL-301-SA6-SS-0.0-0.5	7/19/11	0801	SOIL	NONE	1-SS Sleeve			X	X																	
SL-301-SA6-SS-0.0-0.5	7/19/11	0801	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	07/19/2011 / 1600	7/20/11 915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No(s)	
		8754 3340 9755,9722,9733,9744	

13013 / 1257191 / 6349739-54

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 4 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-084-SA6-SB-4.5	7/19/11	0930	SOIL	NONE	5-Encores										X	X	X										
SL-084-SA6-SB-4.0-5.0	7/19/11	0935	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-084-SA6-SB-9.5	7/19/11	0940	SOIL	NONE	1-Encore												X										
SL-084-SA6-SB-9.0-10.0	7/19/11	0945	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X					X						X	X	X	
[illegible]																											
TB-071911	7/19/11	0800	SOIL	NONE	4-40mL Vials										X	X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	07/19/2011 / 1600	7/20/11 915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3340 9755,9722,9733,9744	

13013 / 1257191 / 6349739-54

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/6847/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
						PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS										
EB-SA6-SS-071911	07.19.11	1300	WATER	NONE	11-1 liter ambers			X	X	X					X	X	X			X	X		X			
EB-SA6-SS-071911	07.19.11	1300	WATER	NONE	1-500 mL poly		X				X	X	X													
EB-SA6-SS-071911	07.19.11	1300	WATER	HNO3	1-500 mL poly	X																				
EB-SA6-SS-071911	07.19.11	1300	WATER	NaOH	1-500 mL glass																	X				
EB-SA6-SS-071911	07.19.11	1300	WATER	NONE	1-250 mL glass														X							
EB-SA6-SS-071911	07.19.11	1300	WATER	HCl	2-40 mL vials																				X	
EB-SA6-SS-071911	07.12.11	1300	WATER	NONE	4-40 mL vials													X						X		

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	07/19/2011 / 1600	7/20/11 915	Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3340 9755,9722,9733,9744	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

September 08, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/21/2011
Group Number: 1257475
SDG: DE204
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-156-SA6-SS-0.0-0.5 Soil	6351908
SL-157-SA6-SS-0.0-0.5 Soil	6351909
SL-159-SA6-SS-0.0-0.5 Soil	6351910
SL-160-SA6-SS-0.0-0.5 Soil	6351911
SL-160-SA6-SS-0.0-0.5MS Soil	6351912
SL-160-SA6-SS-0.0-0.5MSD Soil	6351913
SL-160-SA6-SS-0.0-0.5DUP Soil	6351914
SL-162-SA6-SS-0.0-0.5 Soil	6351915
SL-164-SA6-SS-0.0-0.5 Soil	6351916
SL-165-SA6-SS-0.0-0.5 Soil	6351917
SL-167-SA6-SS-0.0-0.5 Soil	6351918
SL-215-SA6-SS-0.0-0.5 Soil	6351919
SL-218-SA6-SS-0.0-0.5 Soil	6351920
SL-220-SA6-SS-0.0-0.5 Soil	6351921
SL-310-SA6-SS-0.0-0.5 Soil	6351922
SL-321-SA6-SS-0.0-0.5 Soil	6351923
SL-322-SA6-SS-0.0-0.5 Soil	6351924
DUP04-SA6-QC-072011 Soil	6351925
SL-086-SA6-SB-4.0-5.0 Soil	6351926
SL-086-SA6-SB-9.0-10.0 Soil	6351927
SL-097-SA6-SB-1.5-2.5 Soil	6351928
TB-072011 Water	6351929
EB-SA6-SB-072011 Water	6351930

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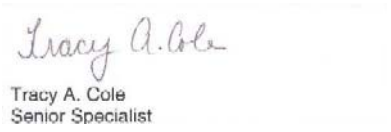
Analysis Report

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Tracy A. Cole
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-156-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA6-SS-0.0-0.5

LLI Sample # SW 6351908
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:31

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0401 SDG#: DE204-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-156-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA6-SS-0.0-0.5

LLI Sample # SW 6351908
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:31

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0401 SDG#: DE204-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.9		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	J	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.4	J	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	1.7		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	2.1		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	0.93	J	0.68	1.7		1
10138	Pyrene	129-00-0	2.3		0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	3.4		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	410		78	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.38	U	0.38	0.38		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-156-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA6-SS-0.0-0.5

LLI Sample # SW 6351908
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:31

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0401 SDG#: DE204-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Reporting limits were raised for 2,4,5-T due to interference from the sample matrix.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.1		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	0.068	U	0.068	0.35		1
01363	p,p-DDT	50-29-3	0.18	U	0.18	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.068	U	0.068	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	0.068	U	0.068	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.068	U	0.068	0.35		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	1.1	J	0.34	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	160	J	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-156-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA6-SS-0.0-0.5

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Chantilly VA 20151

E0401 SDG#: DE204-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.2		5
10199	EFH (C15-C20)	n.a.	2.1	U	2.1	6.2		5
10199	EFH (C21-C30)	n.a.	17		2.1	6.2		5
10199	EFH (C30 - C40)	n.a.	69		2.1	6.2		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.2		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,500		6.03	19.9		1
07914	Boron	7440-42-8	2.00	J	0.359	4.98		1
01650	Calcium	7440-70-2	3,760		2.49	19.9		1
01654	Iron	7439-89-6	29,600		5.20	39.9		2
01656	Lithium	7439-93-2	33.3		0.62	2.0		1
01657	Magnesium	7439-95-4	6,940		0.439	9.97		1
06958	Manganese	7439-96-5	351		0.0359	0.498		1
10145	Phosphorus	7723-14-0	491		0.349	9.97		1
01662	Potassium	7440-09-7	4,000		11.3	49.8		1
01667	Sodium	7440-23-5	137		5.93	99.7		1
07968	Strontium	7440-24-6	26.4		0.0249	0.498		1
06969	Tin	7440-31-5	2.64	J	0.319	9.97		1
06970	Titanium	7440-32-6	1,310		0.0708	0.997		1
10146	Zirconium	7440-67-7	3.16	J	0.459	4.98		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.104	J	0.0745	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.8		0.0805	0.403		2
06126	Barium	7440-39-3	156		0.267	1.01		5
06127	Beryllium	7440-41-7	1.32		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.211		0.0443	0.101		2
06131	Chromium	7440-47-3	42.0		0.121	0.403		2
06132	Cobalt	7440-48-4	13.4		0.0201	0.101		2
06133	Copper	7440-50-8	29.0		0.0805	0.403		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-156-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA6-SS-0.0-0.5

LLI Sample # SW 6351908
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:31

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0401 SDG#: DE204-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	14.1		0.0103	0.201		2
06138	Molybdenum	7439-98-7	0.825		0.0503	0.101		2
06139	Nickel	7440-02-0	31.7		0.101	0.403		2
06141	Selenium	7782-49-2	0.211	J	0.0584	0.403		2
06142	Silver	7440-22-4	0.104		0.0143	0.101		2
06145	Thallium	7440-28-0	0.466		0.0302	0.101		2
06148	Vanadium	7440-62-2	70.8		0.0221	0.101		2
06149	Zinc	7440-66-6	117		0.564	3.02		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0106	J	0.0070	0.0992		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.21	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.10		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.6		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11211SLC026	08/15/2011 00:25	Brian K Graham	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-156-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA6-SS-0.0-0.5

LLI Sample # SW 6351908
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:31

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0401 SDG#: DE204-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11211SLB026	08/03/2011 03:55	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11211SLB026	07/31/2011 17:00	Wanda F Oswald	1
00381	BNA Soil Sonication	SW-846 3550B	1	11211SLC026	08/01/2011 10:00	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112130010A	08/03/2011 20:27	Anita M Dale	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112130022A	08/03/2011 20:50	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112110009A	08/22/2011 19:28	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112110006A	08/03/2011 18:39	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112110009A	08/01/2011 00:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112110006A	08/01/2011 03:00	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112130010A	08/01/2011 21:00	Elaine F Stoltzfus	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112130022A	08/02/2011 10:45	Maria Davenport	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112040011A	07/27/2011 03:05	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112030001A	07/22/2011 16:00	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112130013A	08/03/2011 06:50	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112130029A	08/03/2011 01:18	Tracy A Cole	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112130029A	08/02/2011 07:30	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112130013A	08/01/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112040011A	07/26/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112030001A	07/22/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708006	07/31/2011 00:40	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112075708006	07/31/2011 00:40	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112075708006	07/31/2011 00:40	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112075708006	08/02/2011 16:58	John P Hook	2
01656	Lithium	SW-846 6010B	1	112075708006	07/31/2011 00:40	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112075708006	07/31/2011 00:40	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112075708006	07/31/2011 00:40	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112075708006	07/31/2011 00:40	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112075708006	07/31/2011 00:40	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112075708006	07/31/2011 00:40	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112075708006	07/31/2011 00:40	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112075708006	07/31/2011 00:40	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112075708006	07/31/2011 00:40	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112075708006	07/31/2011 00:40	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112071026002A	07/29/2011 06:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112071026002A	07/29/2011 06:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112071026002D	07/29/2011 12:17	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	112071026002A	07/29/2011 06:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112071026002A	07/29/2011 06:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112071026002A	07/29/2011 06:00	Choon Y Tian	2

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Sample Description: SL-156-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA6-SS-0.0-0.5

LLI Sample # SW 6351908
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:31

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0401 SDG#: DE204-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	112071026002A	07/29/2011 06:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112071026002A	07/29/2011 06:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112071026002A	07/29/2011 06:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112071026002C	07/29/2011 06:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112071026002A	07/29/2011 06:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112071026002B	07/29/2011 06:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112071026002A	07/29/2011 06:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112071026002A	07/29/2011 06:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112071026002A	07/29/2011 06:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112071026002A	07/29/2011 06:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112075711003	07/27/2011 15:20	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112075708006	07/27/2011 08:41	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112071026002	07/27/2011 09:15	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112075711003	07/27/2011 11:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11210284201A	07/31/2011 15:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209373202A	07/31/2011 02:37	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243202A	08/04/2011 16:51	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11210284201A	07/29/2011 16:00	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209373202A	07/28/2011 18:00	Michael J Morrell	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039401B	08/01/2011 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243202A	08/02/2011 11:15	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-157-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA6-SS-0.0-0.5

LLI Sample # SW 6351909
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:14

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0402 SDG#: DE204-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	J	17	330		1
04688	Fluoranthene	206-44-0	18	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-157-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA6-SS-0.0-0.5

LLI Sample # SW 6351909
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:14

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0402 SDG#: DE204-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	23	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7		1
10138	Anthracene	120-12-7	0.62	J	0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	3.8		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	5.8		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	5.8		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	2.0		0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	7.9		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	J	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	5.7		0.33	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.4	J	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	3.8		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	2.5		0.63	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.082	J	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							

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Sample Description: SL-157-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA6-SS-0.0-0.5

LLI Sample # SW 6351909
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:14

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0402 SDG#: DE204-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.067	U	0.067	0.34		1
01363	p,p-DDT	50-29-3	0.25	J	0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	2.3		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	190	J	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1

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Sample Description: SL-157-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA6-SS-0.0-0.5

LLI Sample # SW 6351909
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:14

Submitted: 07/21/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0402 SDG#: DE204-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C15-C20)	n.a.	2.5	J	2.0	6.1		5
10199	EFH (C21-C30)	n.a.	26		2.0	6.1		5
10199	EFH (C30 - C40)	n.a.	100		2.0	6.1		5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.1		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,200		6.07	20.1		1
07914	Boron	7440-42-8	1.79	J	0.361	5.02		1
01650	Calcium	7440-70-2	3,940		2.51	20.1		1
01654	Iron	7439-89-6	22,000		2.62	20.1		1
01656	Lithium	7439-93-2	23.3		0.62	2.0		1
01657	Magnesium	7439-95-4	5,550		0.441	10.0		1
06958	Manganese	7439-96-5	294		0.0361	0.502		1
10145	Phosphorus	7723-14-0	803		0.351	10.0		1
01662	Potassium	7440-09-7	3,510		11.3	50.2		1
01667	Sodium	7440-23-5	130		5.97	100		1
07968	Strontium	7440-24-6	18.4		0.0251	0.502		1
06969	Tin	7440-31-5	2.19	J	0.321	10.0		1
06970	Titanium	7440-32-6	1,190		0.0712	1.00		1
10146	Zirconium	7440-67-7	1.97	J	0.461	5.02		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0721	U	0.0721	0.195		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.23		0.0779	0.390		2
06126	Barium	7440-39-3	124		0.103	0.390		2
06127	Beryllium	7440-41-7	0.597		0.0156	0.0974		2
06128	Cadmium	7440-43-9	0.281		0.0429	0.0974		2
06131	Chromium	7440-47-3	27.4		0.117	0.390		2
06132	Cobalt	7440-48-4	10.0		0.0195	0.0974		2
06133	Copper	7440-50-8	18.5		0.0779	0.390		2
06135	Lead	7439-92-1	8.20		0.0099	0.195		2
06138	Molybdenum	7439-98-7	0.680		0.0487	0.0974		2
06139	Nickel	7440-02-0	15.5		0.0974	0.390		2
06141	Selenium	7782-49-2	0.126	J	0.0565	0.390		2
06142	Silver	7440-22-4	0.0578	J	0.0138	0.0974		2
06145	Thallium	7440-28-0	0.296		0.0292	0.0974		2
06148	Vanadium	7440-62-2	40.9		0.0214	0.0974		2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-157-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA6-SS-0.0-0.5

LLI Sample # SW 6351909
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:14

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0402 SDG#: DE204-02

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06149	Zinc		7440-66-6	78.8		0.546	2.92		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0074	J	0.0070	0.0991		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	2.0		0.80	1.0		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.1	U	9.1	30.4		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.20	U	0.20	1.0		1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.25		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	1.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11211SLC026	08/15/2011	00:50	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11211SLB026	08/03/2011	04:28	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11211SLB026	07/31/2011	17:00	Wanda F Oswald	1
00381	BNA Soil Sonication	SW-846 3550B	1	11211SLC026	08/01/2011	10:00	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112130010A	08/03/2011	20:55	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112110009A	08/22/2011	19:43	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112110006A	08/03/2011	18:57	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112110009A	08/01/2011	00:30	Olivia Arosemena	1

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Sample Description: SL-157-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA6-SS-0.0-0.5

LLI Sample # SW 6351909
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E0402 SDG#: DE204-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112110006A	08/01/2011 03:00	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112130010A	08/01/2011 21:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112040011A	07/27/2011 03:20	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112030001A	07/22/2011 16:12	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112130013A	08/03/2011 07:35	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112130029A	08/03/2011 01:42	Tracy A Cole	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112130029A	08/02/2011 07:30	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112130013A	08/01/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112040011A	07/26/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112030001A	07/22/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708006	07/31/2011 00:52	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112075708006	07/31/2011 00:52	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112075708006	07/31/2011 00:52	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112075708006	07/31/2011 00:52	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112075708006	07/31/2011 00:52	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112075708006	07/31/2011 00:52	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112075708006	07/31/2011 00:52	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112075708006	07/31/2011 00:52	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112075708006	07/31/2011 00:52	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112075708006	07/31/2011 00:52	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112075708006	07/31/2011 00:52	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112075708006	07/31/2011 00:52	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112075708006	07/31/2011 00:52	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112075708006	07/31/2011 00:52	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112071026002A	07/29/2011 06:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112071026002A	07/29/2011 06:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112071026002D	07/29/2011 06:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112071026002A	07/29/2011 06:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112071026002A	07/29/2011 06:03	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112071026002A	07/29/2011 06:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112071026002A	07/29/2011 06:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112071026002A	07/29/2011 06:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112071026002A	07/29/2011 06:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112071026002C	07/29/2011 06:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112071026002A	07/29/2011 06:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112071026002B	07/29/2011 06:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112071026002A	07/29/2011 06:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112071026002A	07/29/2011 06:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112071026002A	07/29/2011 06:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112071026002A	07/29/2011 06:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112075711003	07/27/2011 15:22	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112075708006	07/27/2011 08:41	James L Mertz	1

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Analysis Report

Sample Description: SL-157-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA6-SS-0.0-0.5

LLI Sample # SW 6351909
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:14

Submitted: 07/21/2011 09:15
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CDM Federal Programs Corp.
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Suite 210
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E0402 SDG#: DE204-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112071026002	07/27/2011 09:15	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112075711003	07/27/2011 11:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11210284201A	07/31/2011 15:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209373202A	07/31/2011 03:23	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243202A	08/04/2011 16:58	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11210284201A	07/29/2011 16:00	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209373202A	07/28/2011 18:00	Michael J Morrell	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039401B	08/01/2011 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243202A	08/02/2011 11:15	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-159-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA6-SS-0.0-0.5

LLI Sample # SW 6351910
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:40

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0403 SDG#: DE204-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

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SSFL Area IV Collocated Soil Sampling
SL-159-SA6-SS-0.0-0.5

LLI Sample # SW 6351910
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:40

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0403 SDG#: DE204-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.83	J	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.87	J	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.8		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.92	J	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.98	J	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	1.4	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	130		6.1	18		1
10138	Fluoranthene	206-44-0	2.2		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	1.1	J	0.67	1.7		1
10138	Pyrene	129-00-0	1.7		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	2.1		0.63	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	450	U	450	450		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.13	U	0.13	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

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SSFL Area IV Collocated Soil Sampling
SL-159-SA6-SS-0.0-0.5

LLI Sample # SW 6351910
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:40

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0403 SDG#: DE204-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Reporting limits were raised for MCPA and 2,4,5-T due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.067	U	0.067	0.35		1
01363	p,p-DDT	50-29-3	0.15	U	0.15	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.099	U	0.099	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	2.0		0.34	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	160	J	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-159-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA6-SS-0.0-0.5

LLI Sample # SW 6351910
LLI Group # 1257475
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:40

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14420 Albemarle Point Place
Suite 210
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E0403 SDG#: DE204-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	1.4		0.41	1.2		1
10199	EFH (C21-C30)	n.a.	8.2		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	31		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.42	J	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,600		6.02	19.9		1
07914	Boron	7440-42-8	1.93	J	0.358	4.98		1
01650	Calcium	7440-70-2	3,400		2.49	19.9		1
01654	Iron	7439-89-6	23,900		2.60	19.9		1
01656	Lithium	7439-93-2	27.6		0.62	2.0		1
01657	Magnesium	7439-95-4	5,620		0.438	9.95		1
06958	Manganese	7439-96-5	303		0.0358	0.498		1
10145	Phosphorus	7723-14-0	506		0.348	9.95		1
01662	Potassium	7440-09-7	3,390		11.2	49.8		1
01667	Sodium	7440-23-5	90.8	J	5.92	99.5		1
07968	Strontium	7440-24-6	15.8		0.0249	0.498		1
06969	Tin	7440-31-5	2.45	J	0.319	9.95		1
06970	Titanium	7440-32-6	1,130		0.0707	0.995		1
10146	Zirconium	7440-67-7	1.95	J	0.458	4.98		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.143	J	0.0751	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.2		0.0812	0.406		2
06126	Barium	7440-39-3	95.3		0.269	1.02		5
06127	Beryllium	7440-41-7	1.05		0.0162	0.102		2
06128	Cadmium	7440-43-9	0.250		0.0447	0.102		2
06131	Chromium	7440-47-3	38.4		0.122	0.406		2
06132	Cobalt	7440-48-4	13.6		0.0203	0.102		2
06133	Copper	7440-50-8	25.1		0.0812	0.406		2

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Sample Description: SL-159-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA6-SS-0.0-0.5

LLI Sample # SW 6351910
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:40

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Suite 210
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E0403 SDG#: DE204-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	12.5	0.0104	0.203		2
06138	Molybdenum	7439-98-7	0.892	0.0508	0.102		2
06139	Nickel	7440-02-0	29.0	0.102	0.406		2
06141	Selenium	7782-49-2	0.255 J	0.0589	0.406		2
06142	Silver	7440-22-4	0.0960 J	0.0144	0.102		2
06145	Thallium	7440-28-0	0.466	0.0305	0.102		2
06148	Vanadium	7440-62-2	67.0	0.0223	0.102		2
06149	Zinc	7440-66-6	132	0.569	3.05		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0087 J	0.0070	0.0990		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1	0.81	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1 U	9.1	30.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31 J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.35	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11211SLC026	08/15/2011 01:15	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11211SLB026	08/03/2011 11:52	Mark A Clark	1

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Sample Description: SL-159-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA6-SS-0.0-0.5

LLI Sample # SW 6351910
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:40

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0403 SDG#: DE204-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11211SLB026	07/31/2011 17:00	Wanda F Oswald	1
00381	BNA Soil Sonication	SW-846 3550B	1	11211SLC026	08/01/2011 10:00	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112130010A	08/03/2011 21:22	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112110009A	08/22/2011 19:58	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112110006A	08/03/2011 19:16	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112110009A	08/01/2011 00:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112110006A	08/01/2011 03:00	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112130010A	08/01/2011 21:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112040011A	07/27/2011 03:35	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112030001A	07/22/2011 16:25	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112130013A	08/03/2011 06:06	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112130029A	08/02/2011 23:17	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112130029A	08/02/2011 07:30	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112130013A	08/01/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112040011A	07/26/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112030001A	07/22/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708006	07/31/2011 00:56	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112075708006	07/31/2011 00:56	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112075708006	07/31/2011 00:56	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112075708006	07/31/2011 00:56	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112075708006	07/31/2011 00:56	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112075708006	07/31/2011 00:56	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112075708006	07/31/2011 00:56	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112075708006	07/31/2011 00:56	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112075708006	07/31/2011 00:56	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112075708006	07/31/2011 00:56	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112075708006	07/31/2011 00:56	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112075708006	07/31/2011 00:56	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112075708006	07/31/2011 00:56	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112075708006	07/31/2011 00:56	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112071026002A	07/29/2011 06:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112071026002A	07/29/2011 06:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112071026002D	07/29/2011 12:22	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	112071026002A	07/29/2011 06:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112071026002A	07/29/2011 06:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112071026002A	07/29/2011 06:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112071026002A	07/29/2011 06:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112071026002A	07/29/2011 06:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112071026002A	07/29/2011 06:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112071026002C	07/29/2011 06:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112071026002A	07/29/2011 06:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112071026002B	07/29/2011 06:12	Choon Y Tian	2

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Sample Description: SL-159-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA6-SS-0.0-0.5

LLI Sample # SW 6351910
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:40

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0403 SDG#: DE204-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112071026002A	07/29/2011 06:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112071026002A	07/29/2011 06:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112071026002A	07/29/2011 06:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112071026002A	07/29/2011 06:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112075711003	07/27/2011 15:23	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112075708006	07/27/2011 08:41	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112071026002	07/27/2011 09:15	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112075711003	07/27/2011 11:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11210284201A	07/31/2011 15:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209373202A	07/31/2011 03:46	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243202A	08/04/2011 17:20	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11210284201A	07/29/2011 16:00	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209373202A	07/28/2011 18:00	Michael J Morrell	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039401B	08/01/2011 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243202A	08/02/2011 11:15	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-160-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351911
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0404 SDG#: DE204-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	31	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1

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Sample Description: SL-160-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351911
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E0404 SDG#: DE204-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.67	U	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	0.48	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Fluoranthene	206-44-0	0.76	J	0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	0.67	U	0.67	1.7		1
10138	Pyrene	129-00-0	0.67	U	0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	1.8		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	540		77	250		1
10401	MCPP (Mecoprop)	93-65-2	740		76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

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Sample Description: SL-160-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351911
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
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E0404 SDG#: DE204-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	MCPP was detected in the method blank. MCPP was not detected in the method blank associated with the reextraction. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. MCPP and MCPA were not detected in the reextract.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.067	U	0.067	0.35		1
01363	p,p-DDT	50-29-3	0.095	U	0.095	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	1.7	J	0.34	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1

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Sample Description: SL-160-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351911
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0404 SDG#: DE204-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	1.1	J	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	12		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	37		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	1.2	J	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,600		12.2	40.3		2
07914	Boron	7440-42-8	1.18	J	0.725	10.1		2
01650	Calcium	7440-70-2	3,050		2.52	20.1		1
01654	Iron	7439-89-6	25,400		2.63	20.1		1
01656	Lithium	7439-93-2	30.9		0.62	2.0		1
01657	Magnesium	7439-95-4	6,230		0.443	10.1		1
06958	Manganese	7439-96-5	313		0.0363	0.504		1
10145	Phosphorus	7723-14-0	452		0.705	20.1		2
01662	Potassium	7440-09-7	3,180		22.8	101		2
01667	Sodium	7440-23-5	100	J	5.99	101		1
07968	Strontium	7440-24-6	18.1		0.0252	0.504		1
06969	Tin	7440-31-5	2.04	J	0.645	20.1		2
06970	Titanium	7440-32-6	1,140		0.143	2.01		2
10146	Zirconium	7440-67-7	2.61	J	0.463	5.04		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.119	J	0.0745	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony. Reporting limits for ICP metals were raised due to interference from the sample matrix.							
06125	Arsenic	7440-38-2	6.70		0.0806	0.403		2
06126	Barium	7440-39-3	128		0.107	0.403		2
06127	Beryllium	7440-41-7	0.965		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.0784	J	0.0443	0.101		2
06131	Chromium	7440-47-3	29.0		0.121	0.403		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-160-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351911
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0404 SDG#: DE204-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06132	Cobalt	7440-48-4	8.89	0.0201	0.101		2
06133	Copper	7440-50-8	17.4	0.0806	0.403		2
06135	Lead	7439-92-1	8.82	0.0103	0.201		2
06138	Molybdenum	7439-98-7	0.690	0.0504	0.101		2
06139	Nickel	7440-02-0	20.9	0.101	0.403		2
06141	Selenium	7782-49-2	0.150 J	0.0584	0.403		2
06142	Silver	7440-22-4	0.0379 J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.350	0.0302	0.101		2
06148	Vanadium	7440-62-2	54.7	0.0222	0.101		2
06149	Zinc	7440-66-6	81.5	0.564	3.02		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0084 J	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9	0.81	1.0		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2 U	9.2	30.5		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45 J	0.20	1.0		1
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.91	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	1.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-160-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351911
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0404 SDG#: DE204-04BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11211SLC026	08/13/2011 14:17	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11211SLB026	08/03/2011 02:17	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11211SLB026	07/31/2011 17:00	Wanda F Oswald	1
00381	BNA Soil Sonication	SW-846 3550B	1	11211SLC026	08/01/2011 10:00	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112130010A	08/03/2011 19:04	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112110009A	08/22/2011 20:13	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112110006A	08/03/2011 19:35	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112110009A	08/01/2011 00:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112110006A	08/01/2011 03:00	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112130010A	08/01/2011 21:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112040011A	07/27/2011 03:50	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112030001A	07/22/2011 16:38	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112130013A	08/03/2011 01:39	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112130029A	08/03/2011 00:05	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112130029A	08/02/2011 07:30	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112130013A	08/01/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112040011A	07/26/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112030001A	07/22/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708006	08/02/2011 16:33	John P Hook	2
07914	Boron	SW-846 6010B	1	112075708006	08/02/2011 16:33	John P Hook	2
01650	Calcium	SW-846 6010B	1	112075708006	07/31/2011 00:15	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112075708006	07/31/2011 00:15	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112075708006	07/31/2011 00:15	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112075708006	07/31/2011 00:15	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112075708006	07/31/2011 00:15	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112075708006	08/01/2011 19:02	John P Hook	2
01662	Potassium	SW-846 6010B	1	112075708006	08/01/2011 19:02	John P Hook	2
01667	Sodium	SW-846 6010B	1	112075708006	07/31/2011 00:15	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112075708006	07/31/2011 00:15	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112075708006	08/02/2011 16:33	John P Hook	2
06970	Titanium	SW-846 6010B	1	112075708006	08/02/2011 16:33	John P Hook	2
10146	Zirconium	SW-846 6010B	1	112075708006	07/31/2011 00:15	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112071026002A	07/29/2011 05:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112071026002A	07/29/2011 05:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112071026002D	07/29/2011 05:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112071026002A	07/29/2011 05:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112071026002A	07/29/2011 05:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112071026002A	07/29/2011 05:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112071026002A	07/29/2011 05:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112071026002A	07/29/2011 05:41	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-160-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351911
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0404 SDG#: DE204-04BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	112071026002A	07/29/2011 05:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112071026002C	07/29/2011 05:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112071026002A	07/29/2011 05:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112071026002B	07/29/2011 05:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112071026002A	07/29/2011 05:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112071026002A	07/29/2011 05:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112071026002A	07/29/2011 05:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112071026002A	07/29/2011 05:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112075711003	07/27/2011 15:24	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112075708006	07/27/2011 08:41	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112071026002	07/27/2011 09:15	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112075711003	07/27/2011 11:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11210284201A	07/31/2011 14:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209373202A	07/31/2011 01:28	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243202A	08/04/2011 17:27	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11210284201A	07/29/2011 16:00	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209373202A	07/28/2011 18:00	Michael J Morrell	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039401B	08/01/2011 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243202A	08/02/2011 11:15	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-160-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351912
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0404 SDG#: DE204-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700		17	170		1
04688	Acenaphthylene	208-96-8	1,900		17	170		1
04688	Aniline	62-53-3	1,300		170	510		1
04688	Anthracene	120-12-7	1,800		17	170		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	1,500		17	170		1
04688	Benzo(a)pyrene	50-32-8	1,800		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	1,500		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,900		17	170		1
04688	Benzoic acid	65-85-0	590		170	510		1
04688	Benzyl alcohol	100-51-6	1,800		170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	1,600		17	170		1
04688	Butylbenzylphthalate	85-68-7	1,800		17	170		1
04688	Di-n-butylphthalate	84-74-2	1,700		17	170		1
04688	Carbazole	86-74-8	1,700		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,600		34	170		1
04688	4-Chloroaniline	106-47-8	680		68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,800		17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	2,100		17	170		1
04688	2-Chloronaphthalene	91-58-7	1,700		17	170		1
04688	2-Chlorophenol	95-57-8	1,900		17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600		34	170		1
04688	Chrysene	218-01-9	1,500		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	1,800		17	170		1
04688	Dibenzofuran	132-64-9	1,700		17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,600		17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,600		17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,600		17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	980		100	340		1
04688	2,4-Dichlorophenol	120-83-2	1,700		17	170		1
04688	Diethylphthalate	84-66-2	1,700		17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,700		34	170		1
04688	3,5-Dimethylphenol	108-68-9	1,700		34	170		1
04688	Dimethylphthalate	131-11-3	1,700		17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,200		170	510		1
04688	2,4-Dinitrophenol	51-28-5	1,300		340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	1,700		34	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,700		17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		17	340		1
04688	Fluoranthene	206-44-0	1,600		17	170		1
04688	Fluorene	86-73-7	1,800		17	170		1
04688	Hexachlorobenzene	118-74-1	1,600		17	170		1
04688	Hexachlorobutadiene	87-68-3	1,400		68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	2,700		170	510		1
04688	Hexachloroethane	67-72-1	1,600		17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700		17	170		1
04688	Isophorone	78-59-1	1,700		17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-160-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351912
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0404 SDG#: DE204-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,600	17	170		1
04688	2-Methylnaphthalene	91-57-6	1,700	17	170		1
04688	2-Methylphenol	95-48-7	1,900	34	170		1
04688	4-Methylphenol	106-44-5	1,700	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	17	170		1
04688	2-Nitroaniline	88-74-4	1,800	17	170		1
04688	3-Nitroaniline	99-09-2	1,700	34	170		1
04688	4-Nitroaniline	100-01-6	1,300	68	170		1
04688	Nitrobenzene	98-95-3	1,600	17	170		1
04688	2-Nitrophenol	88-75-5	1,700	17	170		1
04688	4-Nitrophenol	100-02-7	1,400	170	510		1
04688	N-Nitrosodimethylamine	62-75-9	1,800	34	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,200	17	170		1
04688	Pentachlorophenol	87-86-5	1,100	170	510		1
04688	Phenanthrene	85-01-8	1,800	17	170		1
04688	Phenol	108-95-2	1,900	17	170		1
04688	Pyrene	129-00-0	1,800	17	170		1
04688	Tetralin	119-64-2	1,200	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	1,500	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,700	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	33	0.68	1.7		1
10138	Acenaphthylene	208-96-8	33	0.34	1.7		1
10138	Anthracene	120-12-7	36	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	34	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	28	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	34	0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	15	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	32	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	42	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	41	6.1	18		1
10138	Chrysene	218-01-9	34	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	20	0.68	1.7		1
10138	Diethylphthalate	84-66-2	39	6.1	18		1
10138	Dimethylphthalate	131-11-3	36	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	58	6.1	18		1

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Sample Description: SL-160-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351912
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0404 SDG#: DE204-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	37		0.68	1.7		1
10138	Fluorene	86-73-7	35		0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	19		0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	32		0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	31		0.68	1.7		1
10138	Naphthalene	91-20-3	32		0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	33		0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	43		6.1	18		1
10138	Phenanthrene	85-01-8	33		0.68	1.7		1
10138	Pyrene	129-00-0	34		0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	7.4		1.2	3.7		1
10401	Dalapon	75-99-0	13		4.5	9.1		1
10401	2,4-DB	94-82-6	8.1		0.63	1.7		1
10401	Dicamba	1918-00-9	0.61	J	0.41	1.2		1
10401	Dinoseb	88-85-7	1.2	J	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	12		0.81	1.7		1
10401	MCPA	94-74-6	890		77	250		1
10401	MCPP (Mecoprop)	93-65-2	450		76	250		1
10401	2,4,5-T	93-76-5	0.42		0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.62		0.076	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
MCPP was detected in the method blank. MCPP was not detected in the method blank associated with the reextraction. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were observed for both extracts.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.22		0.067	0.17		1
01363	Alpha BHC	319-84-6	0.18		0.035	0.17		1
01363	Beta BHC	319-85-7	0.22		0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.19		0.035	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.5		1
01363	p,p-DDD	72-54-8	0.45		0.067	0.35		1
01363	p,p-DDE	72-55-9	0.49		0.067	0.35		1
01363	p,p-DDT	50-29-3	0.54		0.067	0.35		1
01363	Delta BHC	319-86-8	0.20		0.037	0.17		1
01363	Dieldrin	60-57-1	0.42		0.067	0.35		1
01363	Endosulfan I	959-98-8	0.15	J	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.40		0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.54		0.067	0.35		1
01363	Endrin	72-20-8	0.47		0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.41		0.067	0.35		1
01363	Endrin Ketone	53494-70-5	0.50		0.067	0.35		1
01363	Heptachlor	76-44-8	0.20		0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.21		0.035	0.17		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-160-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351912
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0404 SDG#: DE204-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Methoxychlor	72-43-5	2.6		0.35	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	14		0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	4.3		0.34	1.7		1
10225	PCB-1260	11096-82-5	14		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	1,900		100	510		1
10501	Isopropanol	67-63-0	2,300		100	510		1
10501	Methanol	67-56-1	2,200		100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	30		5.1	10		1
08283	Ethylene glycol	107-21-1	93		5.1	10		1
08283	Propylene glycol	57-55-6	120		5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.3	J	1.2	3.6		1
10318	o-Terphenyl	84-15-1	1.6	J	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.4	J	1.3	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.77	J	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	3.0		0.41	1.2		1
10199	EFH (C21-C30)	n.a.	12		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	26		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	1.4		0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-160-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351912
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0404 SDG#: DE204-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,700	11.8	39.1		2
07914	Boron	7440-42-8	179	0.704	9.78		2
01650	Calcium	7440-70-2	3,540	2.45	19.6		1
01654	Iron	7439-89-6	24,300	2.55	19.6		1
01656	Lithium	7439-93-2	125	0.61	2.0		1
01657	Magnesium	7439-95-4	6,060	0.430	9.78		1
06958	Manganese	7439-96-5	357	0.0352	0.489		1
10145	Phosphorus	7723-14-0	520	0.685	19.6		2
01662	Potassium	7440-09-7	4,140	22.1	97.8		2
01667	Sodium	7440-23-5	1,030	5.82	97.8		1
07968	Strontium	7440-24-6	111	0.0245	0.489		1
06969	Tin	7440-31-5	334	0.626	19.6		2
06970	Titanium	7440-32-6	1,370	0.139	1.96		2
10146	Zirconium	7440-67-7	95.8	0.450	4.89		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.885	0.0753	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	16.1	0.0814	0.407		2
06126	Barium	7440-39-3	109	0.270	1.02		5
06127	Beryllium	7440-41-7	2.41	0.0163	0.102		2
06128	Cadmium	7440-43-9	2.12	0.0448	0.102		2
06131	Chromium	7440-47-3	59.2	0.122	0.407		2
06132	Cobalt	7440-48-4	110	0.0203	0.102		2
06133	Copper	7440-50-8	43.0	0.0814	0.407		2
06135	Lead	7439-92-1	19.8	0.0104	0.203		2
06138	Molybdenum	7439-98-7	20.8	0.0509	0.102		2
06139	Nickel	7440-02-0	51.5	0.102	0.407		2
06141	Selenium	7782-49-2	3.81	0.0590	0.407		2
06142	Silver	7440-22-4	20.0	0.0144	0.102		2
06145	Thallium	7440-28-0	1.24	0.0305	0.102		2
06148	Vanadium	7440-62-2	94.5	0.0224	0.102		2
06149	Zinc	7440-66-6	129	0.570	3.05		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.177	0.0067	0.0946		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.5	0.81	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	530	9.2	30.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	35.3	1.0	5.1		5

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-160-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351912
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0404 SDG#: DE204-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	1.7	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11211SLC026	08/14/2011 23:35	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11211SLB026	08/03/2011 02:49	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11211SLB026	07/31/2011 17:00	Wanda F Oswald	1
00381	BNA Soil Sonication	SW-846 3550B	1	11211SLC026	08/01/2011 10:00	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112130010A	08/03/2011 19:32	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112110009A	08/22/2011 20:28	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112110006A	08/03/2011 19:53	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112110009A	08/01/2011 00:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112110006A	08/01/2011 03:00	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112130010A	08/01/2011 21:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112040011A	07/27/2011 04:04	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112030001A	07/22/2011 19:50	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112130013A	08/03/2011 02:24	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112130029A	08/02/2011 21:17	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112130029A	08/02/2011 07:30	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112130013A	08/01/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112040011A	07/26/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112030001A	07/22/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708006	08/02/2011 16:45	John P Hook	2
07914	Boron	SW-846 6010B	1	112075708006	08/02/2011 16:45	John P Hook	2
01650	Calcium	SW-846 6010B	1	112075708006	07/31/2011 00:27	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112075708006	07/31/2011 00:27	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112075708006	07/31/2011 00:27	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112075708006	07/31/2011 00:27	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112075708006	07/31/2011 00:27	John W Yanzuk II	1

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Sample Description: SL-160-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351912
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0404 SDG#: DE204-04MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112075708006	08/01/2011 19:56	John P Hook	2
01662	Potassium	SW-846 6010B	1	112075708006	08/01/2011 19:56	John P Hook	2
01667	Sodium	SW-846 6010B	1	112075708006	07/31/2011 00:27	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112075708006	07/31/2011 00:27	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112075708006	08/02/2011 16:45	John P Hook	2
06970	Titanium	SW-846 6010B	1	112075708006	08/02/2011 16:45	John P Hook	2
10146	Zirconium	SW-846 6010B	1	112075708006	07/31/2011 00:27	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112071026002A	07/29/2011 05:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112071026002A	07/29/2011 05:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112071026002D	07/29/2011 12:13	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	112071026002A	07/29/2011 05:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112071026002A	07/29/2011 05:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112071026002A	07/29/2011 05:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112071026002A	07/29/2011 05:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112071026002A	07/29/2011 05:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112071026002A	07/29/2011 05:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112071026002C	07/29/2011 05:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112071026002A	07/29/2011 05:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112071026002B	07/29/2011 05:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112071026002A	07/29/2011 05:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112071026002A	07/29/2011 05:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112071026002A	07/29/2011 05:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112071026002A	07/29/2011 05:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112075711003	07/27/2011 15:27	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112075708006	07/27/2011 08:41	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112071026002	07/27/2011 09:15	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112075711003	07/27/2011 11:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11210284201A	07/31/2011 14:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209373202A	07/31/2011 02:14	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243202A	08/04/2011 17:42	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11210284201A	07/29/2011 16:00	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209373202A	07/28/2011 18:00	Michael J Morrell	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243202A	08/02/2011 11:15	Yolunder Y Bunch	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-160-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351913
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0404 SDG#: DE204-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700		17	170		1
04688	Acenaphthylene	208-96-8	1,900		17	170		1
04688	Aniline	62-53-3	1,500		170	510		1
04688	Anthracene	120-12-7	1,900		17	170		1
04688	Benzidine	92-87-5	1,400	J	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	1,500		17	170		1
04688	Benzo(a)pyrene	50-32-8	1,800		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	1,900		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		17	170		1
04688	Benzoic acid	65-85-0	670		170	510		1
04688	Benzyl alcohol	100-51-6	1,900		170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	1,600		17	170		1
04688	Butylbenzylphthalate	85-68-7	1,800		17	170		1
04688	Di-n-butylphthalate	84-74-2	1,800		17	170		1
04688	Carbazole	86-74-8	1,800		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		34	170		1
04688	4-Chloroaniline	106-47-8	1,300		68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,900		17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	2,100		17	170		1
04688	2-Chloronaphthalene	91-58-7	1,700		17	170		1
04688	2-Chlorophenol	95-57-8	2,000		17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600		34	170		1
04688	Chrysene	218-01-9	1,500		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	1,800		17	170		1
04688	Dibenzofuran	132-64-9	1,700		17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,600		17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,600		17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,600		17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,200		100	340		1
04688	2,4-Dichlorophenol	120-83-2	1,800		17	170		1
04688	Diethylphthalate	84-66-2	1,700		17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,800		34	170		1
04688	3,5-Dimethylphenol	108-68-9	1,800		34	170		1
04688	Dimethylphthalate	131-11-3	1,700		17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,100		170	510		1
04688	2,4-Dinitrophenol	51-28-5	950	J	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	1,700		34	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,700		17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	2,000		17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		17	340		1
04688	Fluoranthene	206-44-0	1,700		17	170		1
04688	Fluorene	86-73-7	1,800		17	170		1
04688	Hexachlorobenzene	118-74-1	1,600		17	170		1
04688	Hexachlorobutadiene	87-68-3	1,400		68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	2,400		170	510		1
04688	Hexachloroethane	67-72-1	1,500		17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700		17	170		1
04688	Isophorone	78-59-1	1,700		17	170		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-160-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351913
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0404 SDG#: DE204-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,700	17	170		1
04688	2-Methylnaphthalene	91-57-6	1,700	17	170		1
04688	2-Methylphenol	95-48-7	2,000	34	170		1
04688	4-Methylphenol	106-44-5	1,900	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	17	170		1
04688	2-Nitroaniline	88-74-4	1,900	17	170		1
04688	3-Nitroaniline	99-09-2	1,700	34	170		1
04688	4-Nitroaniline	100-01-6	1,500	68	170		1
04688	Nitrobenzene	98-95-3	1,700	17	170		1
04688	2-Nitrophenol	88-75-5	1,700	17	170		1
04688	4-Nitrophenol	100-02-7	1,400	170	510		1
04688	N-Nitrosodimethylamine	62-75-9	1,700	34	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,300	17	170		1
04688	Pentachlorophenol	87-86-5	990	170	510		1
04688	Phenanthrene	85-01-8	1,800	17	170		1
04688	Phenol	108-95-2	2,000	17	170		1
04688	Pyrene	129-00-0	1,800	17	170		1
04688	Tetralin	119-64-2	250	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,600	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,600	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	34	0.68	1.7		1
10138	Acenaphthylene	208-96-8	35	0.34	1.7		1
10138	Anthracene	120-12-7	37	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	36	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	30	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	36	0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	13	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	36	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	52	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	43	6.1	18		1
10138	Chrysene	218-01-9	36	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	19	0.68	1.7		1
10138	Diethylphthalate	84-66-2	41	6.1	18		1
10138	Dimethylphthalate	131-11-3	37	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	70	6.1	18		1

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Sample Description: SL-160-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351913
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0404 SDG#: DE204-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Fluoranthene	206-44-0	39		0.68	1.7		1
10138	Fluorene	86-73-7	37		0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	18		0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	33		0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	32		0.68	1.7		1
10138	Naphthalene	91-20-3	34		0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	34		0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	49		6.1	18		1
10138	Phenanthrene	85-01-8	35		0.68	1.7		1
10138	Pyrene	129-00-0	37		0.68	1.7		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	7.3		1.2	3.7		1
10401	Dalapon	75-99-0	11		4.5	9.1		1
10401	2,4-DB	94-82-6	9.5		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	1.1	J	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	15		0.81	1.7		1
10401	MCPA	94-74-6	860		77	250		1
10401	MCPP (Mecoprop)	93-65-2	600		76	250		1
10401	2,4,5-T	93-76-5	0.48		0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.51		0.076	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
MCPP was detected in the method blank. MCPP was not detected in the method blank associated with the reextraction. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were observed for both extracts.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.26		0.067	0.17		1
01363	Alpha BHC	319-84-6	0.23		0.035	0.17		1
01363	Beta BHC	319-85-7	0.27		0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.24		0.035	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.5		1
01363	p,p-DDD	72-54-8	0.49		0.067	0.35		1
01363	p,p-DDE	72-55-9	0.56		0.067	0.35		1
01363	p,p-DDT	50-29-3	0.64		0.067	0.35		1
01363	Delta BHC	319-86-8	0.23		0.037	0.17		1
01363	Dieldrin	60-57-1	0.47		0.067	0.35		1
01363	Endosulfan I	959-98-8	0.19		0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.44		0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.60		0.067	0.35		1
01363	Endrin	72-20-8	0.52		0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.43		0.067	0.35		1
01363	Endrin Ketone	53494-70-5	0.55		0.067	0.35		1
01363	Heptachlor	76-44-8	0.25		0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.25		0.035	0.17		1

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Sample Description: SL-160-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351913
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0404 SDG#: DE204-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Methoxychlor	72-43-5	2.8		0.35	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	14		0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	4.6		0.34	1.7		1
10225	PCB-1260	11096-82-5	14		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,000		100	510		1
10501	Isopropanol	67-63-0	2,300		100	510		1
10501	Methanol	67-56-1	2,400		100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	25		5.1	10		1
08283	Ethylene glycol	107-21-1	91		5.1	10		1
08283	Propylene glycol	57-55-6	120		5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.4	J	1.3	3.6		1
10318	o-Terphenyl	84-15-1	1.7	J	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	J	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.82	J	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	2.6		0.41	1.2		1
10199	EFH (C21-C30)	n.a.	14		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	29		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	1.6		0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-160-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351913
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0404 SDG#: DE204-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	20,300	11.7	38.8		2
07914	Boron	7440-42-8	178	0.698	9.69		2
01650	Calcium	7440-70-2	4,070	2.42	19.4		1
01654	Iron	7439-89-6	24,300	2.53	19.4		1
01656	Lithium	7439-93-2	125	0.60	1.9		1
01657	Magnesium	7439-95-4	6,150	0.426	9.69		1
06958	Manganese	7439-96-5	335	0.0349	0.484		1
10145	Phosphorus	7723-14-0	529	0.678	19.4		2
01662	Potassium	7440-09-7	4,230	21.9	96.9		2
01667	Sodium	7440-23-5	1,030	5.76	96.9		1
07968	Strontium	7440-24-6	112	0.0242	0.484		1
06969	Tin	7440-31-5	348	0.620	19.4		2
06970	Titanium	7440-32-6	1,400	0.138	1.94		2
10146	Zirconium	7440-67-7	96.0	0.446	4.84		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.892	0.0731	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	15.1	0.0790	0.395		2
06126	Barium	7440-39-3	108	0.262	0.988		5
06127	Beryllium	7440-41-7	2.43	0.0158	0.0988		2
06128	Cadmium	7440-43-9	2.01	0.0435	0.0988		2
06131	Chromium	7440-47-3	58.8	0.119	0.395		2
06132	Cobalt	7440-48-4	107	0.0198	0.0988		2
06133	Copper	7440-50-8	43.0	0.0790	0.395		2
06135	Lead	7439-92-1	19.4	0.0101	0.198		2
06138	Molybdenum	7439-98-7	20.3	0.0494	0.0988		2
06139	Nickel	7440-02-0	52.0	0.0988	0.395		2
06141	Selenium	7782-49-2	3.69	0.0573	0.395		2
06142	Silver	7440-22-4	19.5	0.0140	0.0988		2
06145	Thallium	7440-28-0	1.28	0.0296	0.0988		2
06148	Vanadium	7440-62-2	92.6	0.0217	0.0988		2
06149	Zinc	7440-66-6	126	0.553	2.96		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.184	0.0071	0.101		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	1.7	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-160-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351913
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0404 SDG#: DE204-04MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11211SLC026	08/15/2011 00:00	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11211SLB026	08/03/2011 03:22	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11211SLB026	07/31/2011 17:00	Wanda F Oswald	1
00381	BNA Soil Sonication	SW-846 3550B	1	11211SLC026	08/01/2011 10:00	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112130010A	08/03/2011 19:59	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112110009A	08/22/2011 20:42	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112110006A	08/03/2011 20:12	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112110009A	08/01/2011 00:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112110006A	08/01/2011 03:00	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112130010A	08/01/2011 21:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112040011A	07/27/2011 04:19	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112030001A	07/22/2011 20:03	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112130013A	08/03/2011 03:08	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112130029A	08/02/2011 21:41	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112130029A	08/02/2011 07:30	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112130013A	08/01/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112040011A	07/26/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112030001A	07/22/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708006	08/02/2011 16:49	John P Hook	2
07914	Boron	SW-846 6010B	1	112075708006	08/02/2011 16:49	John P Hook	2
01650	Calcium	SW-846 6010B	1	112075708006	07/31/2011 00:32	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112075708006	07/31/2011 00:32	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112075708006	07/31/2011 00:32	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112075708006	07/31/2011 00:32	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112075708006	07/31/2011 00:32	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112075708006	08/01/2011 20:00	John P Hook	2
01662	Potassium	SW-846 6010B	1	112075708006	08/01/2011 20:00	John P Hook	2
01667	Sodium	SW-846 6010B	1	112075708006	07/31/2011 00:32	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112075708006	07/31/2011 00:32	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112075708006	08/02/2011 16:49	John P Hook	2
06970	Titanium	SW-846 6010B	1	112075708006	08/02/2011 16:49	John P Hook	2
10146	Zirconium	SW-846 6010B	1	112075708006	07/31/2011 00:32	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112071026002A	07/29/2011 05:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112071026002A	07/29/2011 05:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112071026002D	07/29/2011 12:15	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	112071026002A	07/29/2011 05:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112071026002A	07/29/2011 05:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112071026002A	07/29/2011 05:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112071026002A	07/29/2011 05:53	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-160-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351913
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0404 SDG#: DE204-04MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	112071026002A	07/29/2011 05:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112071026002A	07/29/2011 05:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112071026002C	07/29/2011 05:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112071026002A	07/29/2011 05:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112071026002B	07/29/2011 05:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112071026002A	07/29/2011 05:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112071026002A	07/29/2011 05:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112071026002A	07/29/2011 05:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112071026002A	07/29/2011 05:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112075711003	07/27/2011 15:28	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112075708006	07/27/2011 08:41	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112071026002	07/27/2011 09:15	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112075711003	07/27/2011 11:15	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-160-SA6-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351914
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0404 SDG#: DE204-04DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,500		12.1	39.9		2
07914	Boron	7440-42-8	1.03	J	0.718	9.97		2
01650	Calcium	7440-70-2	3,360		2.49	19.9		1
01654	Iron	7439-89-6	26,400		2.60	19.9		1
01656	Lithium	7439-93-2	31.5		0.62	2.0		1
01657	Magnesium	7439-95-4	6,300		0.439	9.97		1
06958	Manganese	7439-96-5	300		0.0359	0.499		1
10145	Phosphorus	7723-14-0	461		0.698	19.9		2
01662	Potassium	7440-09-7	2,960		22.5	99.7		2
01667	Sodium	7440-23-5	106		5.93	99.7		1
07968	Strontium	7440-24-6	20.5		0.0249	0.499		1
06969	Tin	7440-31-5	2.18	J	0.638	19.9		2
06970	Titanium	7440-32-6	1,180		0.142	1.99		2
10146	Zirconium	7440-67-7	3.03	J	0.459	4.99		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.185	J	0.0753	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony. Reporting limits for ICP metals were raised due to interference from the sample matrix.							
06125	Arsenic	7440-38-2	12.4		0.0814	0.407		2
06126	Barium	7440-39-3	96.9		0.270	1.02		5
06127	Beryllium	7440-41-7	1.25		0.0163	0.102		2
06128	Cadmium	7440-43-9	0.149		0.0448	0.102		2
06131	Chromium	7440-47-3	43.3		0.122	0.407		2
06132	Cobalt	7440-48-4	16.3		0.0203	0.102		2
06133	Copper	7440-50-8	22.8		0.0814	0.407		2
06135	Lead	7439-92-1	13.9		0.0104	0.203		2
06138	Molybdenum	7439-98-7	1.19		0.0509	0.102		2
06139	Nickel	7440-02-0	33.3		0.102	0.407		2
06141	Selenium	7782-49-2	0.257	J	0.0590	0.407		2
06142	Silver	7440-22-4	0.0790	J	0.0144	0.102		2
06145	Thallium	7440-28-0	0.497		0.0305	0.102		2
06148	Vanadium	7440-62-2	81.9		0.0224	0.102		2
06149	Zinc	7440-66-6	113		0.570	3.05		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0077	J	0.0069	0.0980		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-160-SA6-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351914
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0404 SDG#: DE204-04DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20 U	0.20	1.0		1
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.91	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11626	28a Moisture Content by 160.3	n.a.	1.8	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	1.7	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112075708006	08/02/2011 16:41	John P Hook	2
07914	Boron	SW-846 6010B	1	112075708006	08/02/2011 16:41	John P Hook	2
01650	Calcium	SW-846 6010B	1	112075708006	07/31/2011 00:23	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112075708006	07/31/2011 00:23	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112075708006	07/31/2011 00:23	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112075708006	07/31/2011 00:23	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112075708006	07/31/2011 00:23	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112075708006	08/01/2011 19:51	John P Hook	2
01662	Potassium	SW-846 6010B	1	112075708006	08/01/2011 19:51	John P Hook	2
01667	Sodium	SW-846 6010B	1	112075708006	07/31/2011 00:23	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112075708006	07/31/2011 00:23	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112075708006	08/02/2011 16:41	John P Hook	2
06970	Titanium	SW-846 6010B	1	112075708006	08/02/2011 16:41	John P Hook	2
10146	Zirconium	SW-846 6010B	1	112075708006	07/31/2011 00:23	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112071026002A	07/29/2011 05:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112071026002A	07/29/2011 05:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112071026002D	07/29/2011 12:11	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	112071026002A	07/29/2011 05:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112071026002A	07/29/2011 05:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112071026002A	07/29/2011 05:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112071026002A	07/29/2011 05:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112071026002A	07/29/2011 05:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112071026002A	07/29/2011 05:47	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-160-SA6-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351914
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0404 SDG#: DE204-04DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	112071026002C	07/29/2011 05:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112071026002A	07/29/2011 05:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112071026002B	07/29/2011 05:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112071026002A	07/29/2011 05:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112071026002A	07/29/2011 05:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112071026002A	07/29/2011 05:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112071026002A	07/29/2011 05:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112075711003	07/27/2011 15:26	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112075708006	07/27/2011 08:41	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112071026002	07/27/2011 09:15	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112075711003	07/27/2011 11:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11210284201A	07/31/2011 14:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209373202A	07/31/2011 01:51	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243202A	08/04/2011 18:39	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11210284201A	07/29/2011 16:00	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209373202A	07/28/2011 18:00	Michael J Morrell	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039401B	08/01/2011 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243202A	08/02/2011 11:15	Yolunder Y Bunch	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-162-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA6-SS-0.0-0.5

LLI Sample # SW 6351915
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:51

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0405 SDG#: DE204-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzo(a)anthracene	56-55-3	35	J	17	170		1
04688	Benzo(a)pyrene	50-32-8	35	J	17	170		1
04688	Benzo(b)fluoranthene	205-99-2	36	J	17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	28	J	17	170		1
04688	Benzo(k)fluoranthene	207-08-9	22	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Chrysene	218-01-9	41	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	54	J	17	330		1
04688	Fluoranthene	206-44-0	80	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	22	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1

3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.

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Sample Description: SL-162-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA6-SS-0.0-0.5

LLI Sample # SW 6351915
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:51

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0405 SDG#: DE204-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenanthrene	85-01-8	76	J	17	170		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	95	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.3	U	3.3	8.3		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.3		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.3		5
10138	Dibenz(a,h)anthracene	53-70-3	3.3	U	3.3	8.3		5
10138	Fluorene	86-73-7	3.3	U	3.3	8.3		5
10138	1-Methylnaphthalene	90-12-0	3.3	U	3.3	8.3		5
10138	2-Methylnaphthalene	91-57-6	3.3	U	3.3	8.3		5
10138	Naphthalene	91-20-3	3.3	U	3.3	8.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.3		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	2.4		0.62	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	370		77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory							

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Sample Description: SL-162-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA6-SS-0.0-0.5

LLI Sample # SW 6351915
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:51

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0405 SDG#: DE204-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
statistical limits of 0-36%, the data is reported.								
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.046	J	0.034	0.17		1
01363	Chlordane	57-74-9	1.8	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.092	U	0.092	0.34		1
01363	p,p-DDT	50-29-3	1.6		0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.12	U	0.12	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.12	U	0.12	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.20	U	0.20	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.2	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	12		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	220	J	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1

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Sample Description: SL-162-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA6-SS-0.0-0.5

LLI Sample # SW 6351915
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:51

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0405 SDG#: DE204-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.0	U	4.0	12		10
10199	EFH (C15-C20)	n.a.	4.2	J	4.0	12		10
10199	EFH (C21-C30)	n.a.	44		4.0	12		10
10199	EFH (C30 - C40)	n.a.	230		4.0	12		10
10199	EFH (C8-C11)	n.a.	4.0	U	4.0	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900		5.82	19.2		1
07914	Boron	7440-42-8	1.03	J	0.346	4.81		1
01650	Calcium	7440-70-2	5,630		4.81	38.5		2
01654	Iron	7439-89-6	25,900		5.02	38.5		2
01656	Lithium	7439-93-2	25.4		0.60	1.9		1
01657	Magnesium	7439-95-4	5,710		0.847	19.2		2
06958	Manganese	7439-96-5	303		0.0346	0.481		1
10145	Phosphorus	7723-14-0	623		0.337	9.62		1
01662	Potassium	7440-09-7	3,460		21.7	96.2		2
01667	Sodium	7440-23-5	138		5.72	96.2		1
07968	Strontium	7440-24-6	16.2		0.0241	0.481		1
06969	Tin	7440-31-5	4.50	J	0.308	9.62		1
06970	Titanium	7440-32-6	1,160		0.0683	0.962		1
10146	Zirconium	7440-67-7	2.54	J	0.443	4.81		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.101	J	0.0740	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.61		0.0800	0.400		2
06126	Barium	7440-39-3	117		0.106	0.400		2
06127	Beryllium	7440-41-7	0.680		0.0160	0.100		2
06128	Cadmium	7440-43-9	0.221		0.0440	0.100		2
06131	Chromium	7440-47-3	23.2		0.120	0.400		2
06132	Cobalt	7440-48-4	9.55		0.0200	0.100		2
06133	Copper	7440-50-8	16.3		0.0800	0.400		2
06135	Lead	7439-92-1	10.4		0.0102	0.200		2

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Sample Description: SL-162-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA6-SS-0.0-0.5

LLI Sample # SW 6351915
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:51

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0405 SDG#: DE204-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06138	Molybdenum	7439-98-7	0.532		0.0500	0.100		2
06139	Nickel	7440-02-0	19.6		0.100	0.400		2
06141	Selenium	7782-49-2	0.129	J	0.0580	0.400		2
06142	Silver	7440-22-4	0.0683	J	0.0142	0.100		2
06145	Thallium	7440-28-0	0.339		0.0300	0.100		2
06148	Vanadium	7440-62-2	60.2		0.0220	0.100		2
06149	Zinc	7440-66-6	93.0		0.560	3.00		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	J	0.0067	0.0946		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.59	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.39		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.0		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11211SLC026	08/15/2011 01:40	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11211SLB026	08/03/2011 12:24	Mark A Clark	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11211SLB026	07/31/2011 17:00	Wanda F Oswald	1

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Sample Description: SL-162-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA6-SS-0.0-0.5

LLI Sample # SW 6351915
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E0405 SDG#: DE204-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	11211SLC026	08/01/2011 10:00	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112130010A	08/03/2011 21:50	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112110009A	08/22/2011 20:57	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112110006A	08/03/2011 20:30	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112110009A	08/01/2011 00:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112110006A	08/01/2011 03:00	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112130010A	08/01/2011 21:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112040011A	07/27/2011 04:34	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112030001A	07/22/2011 17:29	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112130013A	08/03/2011 11:14	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112130029A	08/03/2011 02:06	Tracy A Cole	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112130029A	08/02/2011 07:30	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112130013A	08/01/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112040011A	07/26/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112030001A	07/22/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708006	07/31/2011 01:00	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112075708006	07/31/2011 01:00	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112075708006	08/01/2011 20:12	John P Hook	2
01654	Iron	SW-846 6010B	1	112075708006	08/02/2011 17:06	John P Hook	2
01656	Lithium	SW-846 6010B	2	112075708006	08/02/2011 17:02	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112075708006	08/01/2011 20:12	John P Hook	2
06958	Manganese	SW-846 6010B	1	112075708006	07/31/2011 01:00	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112075708006	07/31/2011 01:00	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112075708006	08/01/2011 20:12	John P Hook	2
01667	Sodium	SW-846 6010B	1	112075708006	07/31/2011 01:00	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112075708006	07/31/2011 01:00	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112075708006	07/31/2011 01:00	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112075708006	07/31/2011 01:00	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112075708006	07/31/2011 01:00	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112071026002A	07/29/2011 06:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112071026002A	07/29/2011 06:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112071026002D	07/29/2011 06:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112071026002A	07/29/2011 06:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112071026002A	07/29/2011 06:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112071026002A	07/29/2011 06:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112071026002A	07/29/2011 06:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112071026002A	07/29/2011 06:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112071026002A	07/29/2011 06:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112071026002C	07/29/2011 06:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112071026002A	07/29/2011 06:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112071026002B	07/29/2011 06:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112071026002A	07/29/2011 06:15	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-162-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA6-SS-0.0-0.5

LLI Sample # SW 6351915
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:51

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0405 SDG#: DE204-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	112071026002A	07/29/2011 06:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112071026002A	07/29/2011 06:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112071026002A	07/29/2011 06:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112075711003	07/27/2011 15:29	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112075708006	07/27/2011 08:41	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112071026002	07/27/2011 09:15	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112075711003	07/27/2011 11:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11210284201A	07/31/2011 16:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209373202A	07/31/2011 04:09	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243202A	08/04/2011 18:54	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11210284201A	07/29/2011 16:00	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209373202A	07/28/2011 18:00	Michael J Morrell	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039401B	08/01/2011 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243202A	08/02/2011 11:15	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-164-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA6-SS-0.0-0.5

LLI Sample # SW 6351916
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:57

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0406 SDG#: DE204-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-164-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA6-SS-0.0-0.5

LLI Sample # SW 6351916
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:57

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0406 SDG#: DE204-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J	0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	J	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	1.0	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	1.8		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	1.0	J	0.68	1.7		1
10138	Pyrene	129-00-0	1.3	J	0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	1.2	J	0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	460		77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-164-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA6-SS-0.0-0.5

LLI Sample # SW 6351916
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:57

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0406 SDG#: DE204-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.067	U	0.067	0.35		1
01363	p,p-DDT	50-29-3	0.080	U	0.080	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.52	J	0.34	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-164-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA6-SS-0.0-0.5

LLI Sample # SW 6351916
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:57

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0406 SDG#: DE204-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	0.86	J	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	4.9		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	15		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.51	J	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,300		6.12	20.2		1
07914	Boron	7440-42-8	2.03	J	0.364	5.06		1
01650	Calcium	7440-70-2	4,290		2.53	20.2		1
01654	Iron	7439-89-6	26,100		5.28	40.5		2
01656	Lithium	7439-93-2	30.9		0.63	2.0		1
01657	Magnesium	7439-95-4	7,320		0.445	10.1		1
06958	Manganese	7439-96-5	335		0.0364	0.506		1
10145	Phosphorus	7723-14-0	663		0.354	10.1		1
01662	Potassium	7440-09-7	4,330		11.4	50.6		1
01667	Sodium	7440-23-5	111		6.02	101		1
07968	Strontium	7440-24-6	16.4		0.0253	0.506		1
06969	Tin	7440-31-5	2.36	J	0.324	10.1		1
06970	Titanium	7440-32-6	1,550		0.0719	1.01		1
10146	Zirconium	7440-67-7	1.99	J	0.466	5.06		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.175	J	0.0735	0.199		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	11.9		0.0794	0.397		2
06126	Barium	7440-39-3	92.4		0.263	0.993		5
06127	Beryllium	7440-41-7	1.08		0.0159	0.0993		2
06128	Cadmium	7440-43-9	0.236		0.0437	0.0993		2
06131	Chromium	7440-47-3	39.3		0.119	0.397		2
06132	Cobalt	7440-48-4	15.5		0.0199	0.0993		2
06133	Copper	7440-50-8	27.2		0.0794	0.397		2
06135	Lead	7439-92-1	13.7		0.0101	0.199		2
06138	Molybdenum	7439-98-7	0.950		0.0496	0.0993		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-164-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA6-SS-0.0-0.5

LLI Sample # SW 6351916
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:57

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0406 SDG#: DE204-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	31.3		0.0993	0.397		2
06141	Selenium	7782-49-2	0.254	J	0.0576	0.397		2
06142	Silver	7440-22-4	0.116		0.0141	0.0993		2
06145	Thallium	7440-28-0	0.531		0.0298	0.0993		2
06148	Vanadium	7440-62-2	69.8		0.0218	0.0993		2
06149	Zinc	7440-66-6	116		0.556	2.98		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0094	J	0.0070	0.0994		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.50		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11211SLC026	08/15/2011 02:05	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11211SLB026	08/03/2011 12:56	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11211SLB026	07/31/2011 17:00	Wanda F Oswald	1
00381	BNA Soil Sonication	SW-846 3550B	1	11211SLC026	08/01/2011 10:00	Denise L Trimby	1

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Sample Description: SL-164-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA6-SS-0.0-0.5

LLI Sample # SW 6351916
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:57

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0406 SDG#: DE204-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112130010A	08/03/2011 22:18	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112110009A	08/22/2011 22:42	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112110006A	08/03/2011 20:49	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112110009A	08/01/2011 00:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112110006A	08/01/2011 03:00	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112130010A	08/01/2011 21:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112040011A	07/27/2011 04:49	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112030001A	07/22/2011 17:42	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112130013A	08/02/2011 23:26	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112130029A	08/02/2011 19:16	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112130029A	08/02/2011 07:30	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112130013A	08/01/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112040011A	07/26/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112030001A	07/22/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708006	07/31/2011 01:05	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112075708006	07/31/2011 01:05	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112075708006	07/31/2011 01:05	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112075708006	08/02/2011 17:10	John P Hook	2
01656	Lithium	SW-846 6010B	1	112075708006	07/31/2011 01:05	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112075708006	07/31/2011 01:05	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112075708006	07/31/2011 01:05	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112075708006	07/31/2011 01:05	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112075708006	07/31/2011 01:05	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112075708006	07/31/2011 01:05	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112075708006	07/31/2011 01:05	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112075708006	07/31/2011 01:05	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112075708006	07/31/2011 01:05	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112075708006	07/31/2011 01:05	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112071026002A	07/29/2011 06:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112071026002A	07/29/2011 06:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112071026002D	07/29/2011 12:24	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	112071026002A	07/29/2011 06:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112071026002A	07/29/2011 06:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112071026002A	07/29/2011 06:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112071026002A	07/29/2011 06:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112071026002A	07/29/2011 06:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112071026002A	07/29/2011 06:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112071026002C	07/29/2011 06:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112071026002A	07/29/2011 06:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112071026002B	07/29/2011 06:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112071026002A	07/29/2011 06:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112071026002A	07/29/2011 06:18	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-164-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA6-SS-0.0-0.5

LLI Sample # SW 6351916
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:57

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0406 SDG#: DE204-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	112071026002A	07/29/2011 06:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112071026002A	07/29/2011 06:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112075711003	07/27/2011 15:33	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112075708006	07/27/2011 08:41	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112071026002	07/27/2011 09:15	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112075711003	07/27/2011 11:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11210284201A	07/31/2011 16:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209373202A	08/02/2011 00:09	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243202A	08/04/2011 19:08	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11210284201A	07/29/2011 16:00	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209373202A	07/28/2011 18:00	Michael J Morrell	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039402A	08/01/2011 18:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243202A	08/02/2011 11:15	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-165-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA6-SS-0.0-0.5

LLI Sample # SW 6351917
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:24

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0407 SDG#: DE204-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: SL-165-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA6-SS-0.0-0.5

LLI Sample # SW 6351917
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:24

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0407 SDG#: DE204-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7		1
10138	Anthracene	120-12-7	0.33	U	0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.6	J	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.68	J	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	2.5		0.33	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.0	U	6.0	18		1
10138	Fluoranthene	206-44-0	1.7		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	0.76	J	0.67	1.7		1
10138	Pyrene	129-00-0	1.2	J	0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	2.2		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.0	J	0.81	1.7		1
10401	MCPA	94-74-6	560		77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.11	U	0.11	0.17		1
10401	2,4,5-TP	93-72-1	0.43		0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-165-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA6-SS-0.0-0.5

LLI Sample # SW 6351917
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:24

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0407 SDG#: DE204-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Reporting limits were raised for 2,4,5-T due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.067	U	0.067	0.34		1
01363	p,p-DDT	50-29-3	0.12	U	0.12	0.34		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.10	U	0.10	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	3.0		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	160	J	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-165-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA6-SS-0.0-0.5

LLI Sample # SW 6351917
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:24

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0407 SDG#: DE204-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	0.87	J	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	5.1		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	14		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,000		5.96	19.7		1
07914	Boron	7440-42-8	1.33	J	0.354	4.92		1
01650	Calcium	7440-70-2	3,570		2.46	19.7		1
01654	Iron	7439-89-6	24,300		2.57	19.7		1
01656	Lithium	7439-93-2	29.2		0.61	2.0		1
01657	Magnesium	7439-95-4	5,860		0.433	9.85		1
06958	Manganese	7439-96-5	351		0.0354	0.492		1
10145	Phosphorus	7723-14-0	388		0.345	9.85		1
01662	Potassium	7440-09-7	2,700		11.1	49.2		1
01667	Sodium	7440-23-5	92.4	J	5.86	98.5		1
07968	Strontium	7440-24-6	17.2		0.0246	0.492		1
06969	Tin	7440-31-5	2.53	J	0.315	9.85		1
06970	Titanium	7440-32-6	1,190		0.0699	0.985		1
10146	Zirconium	7440-67-7	2.20	J	0.453	4.92		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.173	J	0.0743	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	17.2		0.0803	0.402		2
06126	Barium	7440-39-3	176		0.106	0.402		2
06127	Beryllium	7440-41-7	1.05		0.0161	0.100		2
06128	Cadmium	7440-43-9	0.241		0.0442	0.100		2
06131	Chromium	7440-47-3	35.7		0.120	0.402		2
06132	Cobalt	7440-48-4	13.2		0.0201	0.100		2
06133	Copper	7440-50-8	25.1		0.0803	0.402		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-165-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA6-SS-0.0-0.5

LLI Sample # SW 6351917
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:24

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0407 SDG#: DE204-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg		mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	13.1		0.0102	0.201		2
06138	Molybdenum	7439-98-7	1.03		0.0502	0.100		2
06139	Nickel	7440-02-0	26.3		0.100	0.402		2
06141	Selenium	7782-49-2	0.293	J	0.0582	0.402		2
06142	Silver	7440-22-4	0.109		0.0143	0.100		2
06145	Thallium	7440-28-0	0.489		0.0301	0.100		2
06148	Vanadium	7440-62-2	68.0		0.0221	0.100		2
06149	Zinc	7440-66-6	124		0.562	3.01		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0111	J	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.81	1.0		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.29	J	0.20	1.0		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.23		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	1.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11211SLC026	08/15/2011	02:30	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11211SLB026	08/03/2011	13:29	Mark A Clark	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-165-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA6-SS-0.0-0.5

LLI Sample # SW 6351917
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:24

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0407 SDG#: DE204-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11211SLB026	07/31/2011 17:00	Wanda F Oswald	1
00381	BNA Soil Sonication	SW-846 3550B	1	11211SLC026	08/01/2011 10:00	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112130010A	08/03/2011 23:41	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112110009A	08/22/2011 22:56	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112110006A	08/03/2011 21:08	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112110009A	08/01/2011 00:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112110006A	08/01/2011 03:00	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112130010A	08/01/2011 21:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112040011A	07/27/2011 05:04	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112030001A	07/22/2011 17:55	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112130013A	08/03/2011 03:53	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112130029A	08/02/2011 19:40	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112130029A	08/02/2011 07:30	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112130013A	08/01/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112040011A	07/26/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112030001A	07/22/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708006	07/31/2011 01:09	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112075708006	07/31/2011 01:09	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112075708006	07/31/2011 01:09	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112075708006	07/31/2011 01:09	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112075708006	07/31/2011 01:09	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112075708006	07/31/2011 01:09	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112075708006	07/31/2011 01:09	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112075708006	07/31/2011 01:09	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112075708006	07/31/2011 01:09	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112075708006	07/31/2011 01:09	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112075708006	07/31/2011 01:09	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112075708006	07/31/2011 01:09	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112075708006	07/31/2011 01:09	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112075708006	07/31/2011 01:09	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112071026002A	07/29/2011 06:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112071026002A	07/29/2011 06:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112071026002D	07/29/2011 06:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112071026002A	07/29/2011 06:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112071026002A	07/29/2011 06:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112071026002A	07/29/2011 06:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112071026002A	07/29/2011 06:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112071026002A	07/29/2011 06:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112071026002A	07/29/2011 06:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112071026002C	07/29/2011 06:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112071026002A	07/29/2011 06:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112071026002B	07/29/2011 06:21	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-165-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA6-SS-0.0-0.5

LLI Sample # SW 6351917
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:24

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0407 SDG#: DE204-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112071026002A	07/29/2011 06:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112071026002A	07/29/2011 06:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112071026002A	07/29/2011 06:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112071026002A	07/29/2011 06:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112075711003	07/27/2011 15:34	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112075708006	07/27/2011 08:41	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112071026002	07/27/2011 09:15	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112075711003	07/27/2011 11:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11210284201A	07/31/2011 16:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209373202A	07/31/2011 04:55	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243202A	08/04/2011 19:23	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11210284201A	07/29/2011 16:00	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209373202A	07/28/2011 18:00	Michael J Morrell	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039402A	08/01/2011 18:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243202A	08/02/2011 11:15	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-167-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA6-SS-0.0-0.5

LLI Sample # SW 6351918
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:14

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0408 SDG#: DE204-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	110	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1

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Sample Description: SL-167-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA6-SS-0.0-0.5

LLI Sample # SW 6351918
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:14

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0408 SDG#: DE204-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.49	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	2.6		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	2.8		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	4.6		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.9		0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.9		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	4.8		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	6.6		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	2.8		0.67	1.7		1
10138	Pyrene	129-00-0	5.3		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	3.0		0.63	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.14	U	0.14	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							

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Sample Description: SL-167-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA6-SS-0.0-0.5

LLI Sample # SW 6351918
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:14

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0408 SDG#: DE204-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Reporting limits were raised for 2,4,5-T due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.12	U	0.12	0.35		1
01363	p,p-DDT	50-29-3	0.23	U	0.23	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.094	J	0.067	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	1.9		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	220	J	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-167-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA6-SS-0.0-0.5

LLI Sample # SW 6351918
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:14

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0408 SDG#: DE204-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C15-C20)	n.a.	3.8	J	2.0	6.1		5
10199	EFH (C21-C30)	n.a.	30		2.0	6.1		5
10199	EFH (C30 - C40)	n.a.	110		2.0	6.1		5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.1		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,500		6.09	20.1		1
07914	Boron	7440-42-8	1.52	J	0.362	5.03		1
01650	Calcium	7440-70-2	3,400		2.52	20.1		1
01654	Iron	7439-89-6	23,500		2.63	20.1		1
01656	Lithium	7439-93-2	23.2		0.62	2.0		1
01657	Magnesium	7439-95-4	5,900		0.443	10.1		1
06958	Manganese	7439-96-5	418		0.0362	0.503		1
10145	Phosphorus	7723-14-0	644		0.352	10.1		1
01662	Potassium	7440-09-7	4,580		11.4	50.3		1
01667	Sodium	7440-23-5	134		5.99	101		1
07968	Strontium	7440-24-6	17.9		0.0252	0.503		1
06969	Tin	7440-31-5	2.19	J	0.322	10.1		1
06970	Titanium	7440-32-6	1,290		0.0714	1.01		1
10146	Zirconium	7440-67-7	1.94	J	0.463	5.03		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.151	J	0.0723	0.195		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.55		0.0782	0.391		2
06126	Barium	7440-39-3	132		0.259	0.977		5
06127	Beryllium	7440-41-7	0.818		0.0156	0.0977		2
06128	Cadmium	7440-43-9	0.251		0.0430	0.0977		2
06131	Chromium	7440-47-3	31.8		0.117	0.391		2
06132	Cobalt	7440-48-4	13.7		0.0195	0.0977		2
06133	Copper	7440-50-8	31.3		0.0782	0.391		2

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Sample Description: SL-167-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA6-SS-0.0-0.5

LLI Sample # SW 6351918
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:14

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0408 SDG#: DE204-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	12.2	0.010	0.195		2
06138	Molybdenum	7439-98-7	0.817	0.0489	0.0977		2
06139	Nickel	7440-02-0	23.6	0.0977	0.391		2
06141	Selenium	7782-49-2	0.257 J	0.0567	0.391		2
06142	Silver	7440-22-4	0.0756 J	0.0139	0.0977		2
06145	Thallium	7440-28-0	0.444	0.0293	0.0977		2
06148	Vanadium	7440-62-2	64.9	0.0215	0.0977		2
06149	Zinc	7440-66-6	128	0.547	2.93		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0158 J	0.0067	0.0946		1
Wet Chemistry	**EPA 300.0**		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8	0.81	1.0		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1 U	9.1	30.5		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20 U	0.20	1.0		1
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.91	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	1.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11211SLC026	08/15/2011 02:56	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11211SLB026	08/03/2011 14:01	Mark A Clark	1

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Sample Description: SL-167-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA6-SS-0.0-0.5

LLI Sample # SW 6351918
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:14

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E0408 SDG#: DE204-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11211SLB026	07/31/2011 17:00	Wanda F Oswald	1
00381	BNA Soil Sonication	SW-846 3550B	1	11211SLC026	08/01/2011 10:00	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112130010A	08/04/2011 00:08	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112110009A	08/22/2011 23:12	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112110006A	08/03/2011 21:26	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112110009A	08/01/2011 00:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112110006A	08/01/2011 03:00	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112130010A	08/01/2011 21:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112040011A	07/27/2011 05:19	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112030001A	07/22/2011 18:08	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112130013A	08/05/2011 14:46	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112130029A	08/03/2011 02:30	Tracy A Cole	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112130029A	08/02/2011 07:30	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112130013A	08/01/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112040011A	07/26/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112030001A	07/22/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708006	07/31/2011 01:13	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112075708006	07/31/2011 01:13	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112075708006	07/31/2011 01:13	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112075708006	07/31/2011 01:13	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112075708006	07/31/2011 01:13	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112075708006	07/31/2011 01:13	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112075708006	07/31/2011 01:13	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112075708006	07/31/2011 01:13	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112075708006	07/31/2011 01:13	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112075708006	07/31/2011 01:13	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112075708006	07/31/2011 01:13	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112075708006	07/31/2011 01:13	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112075708006	07/31/2011 01:13	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112075708006	07/31/2011 01:13	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112071026002A	07/29/2011 06:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112071026002A	07/29/2011 06:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112071026002D	07/29/2011 12:26	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	112071026002A	07/29/2011 06:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112071026002A	07/29/2011 06:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112071026002A	07/29/2011 06:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112071026002A	07/29/2011 06:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112071026002A	07/29/2011 06:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112071026002A	07/29/2011 06:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112071026002C	07/29/2011 06:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112071026002A	07/29/2011 06:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112071026002B	07/29/2011 06:24	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-167-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA6-SS-0.0-0.5

LLI Sample # SW 6351918
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:14

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0408 SDG#: DE204-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112071026002A	07/29/2011 06:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112071026002A	07/29/2011 06:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112071026002A	07/29/2011 06:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112071026002A	07/29/2011 06:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112075711003	07/27/2011 15:35	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112075708006	07/27/2011 08:41	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112071026002	07/27/2011 09:15	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112075711003	07/27/2011 11:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11210284201A	07/31/2011 17:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209373202A	07/31/2011 05:18	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243202A	08/04/2011 19:37	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11210284201A	07/29/2011 16:00	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209373202A	07/28/2011 18:00	Michael J Morrell	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039402A	08/01/2011 18:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243202A	08/02/2011 11:15	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-215-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA6-SS-0.0-0.5

LLI Sample # SW 6351919
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:39

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0409 SDG#: DE204-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	317	J	167	335		10

Reporting limits were raised due to interference from the sample matrix.

N-Nitrosodimethylamine was detected in the method blank at a concentration of 168 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank or the re-analysis of the sample. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzo(a)anthracene	56-55-3	31	J	17	170		1
04688	Benzo(a)pyrene	50-32-8	44	J	17	170		1
04688	Benzo(b)fluoranthene	205-99-2	81	J	17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	47	J	17	170		1
04688	Benzo(k)fluoranthene	207-08-9	33	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	18	J	17	170		1
04688	Di-n-butylphthalate	84-74-2	30	J	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Chrysene	218-01-9	83	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	170	J	17	330		1
04688	Fluoranthene	206-44-0	120	J	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-215-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA6-SS-0.0-0.5

LLI Sample # SW 6351919
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:39

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0409 SDG#: DE204-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	40	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenanthrene	85-01-8	94	J	17	170		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	130	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.3	U	3.3	8.4		5
10138	Acenaphthylene	208-96-8	1.9	J	1.7	8.4		5
10138	Anthracene	120-12-7	6.9	J	1.7	8.4		5
10138	Dibenz(a,h)anthracene	53-70-3	3.3	U	3.3	8.4		5
10138	Fluorene	86-73-7	3.3	U	3.3	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.3	U	3.3	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.3	U	3.3	8.4		5
10138	Naphthalene	91-20-3	3.3	U	3.3	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.4		5
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-215-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA6-SS-0.0-0.5

LLI Sample # SW 6351919
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:39

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0409 SDG#: DE204-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	3.1	U	3.1	8.6		5
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	4.0	U	4.0	12		5
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.14	U	0.14	0.17		1
10401	2,4,5-TP	93-72-1	0.75		0.076	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-215-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA6-SS-0.0-0.5

LLI Sample # SW 6351919
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:39

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0409 SDG#: DE204-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Reporting limits were raised for 2,4,5-T, 2,4-DB, and dinoseb due to interference from the sample matrix.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.16	J	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.65	J	0.33	1.7		5
01363	p,p-DDE	72-55-9	2.5		0.33	1.7		5
01363	p,p-DDT	50-29-3	34		1.7	8.6		25
01363	Delta BHC	319-86-8	0.052	U	0.052	0.17		1
01363	Dieldrin	60-57-1	0.52	U	0.52	0.52		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	1.2	U	1.2	1.2		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.99	U	0.99	0.99		1
01363	Endrin Aldehyde	7421-93-4	1.5	U	1.5	1.5		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.072	U	0.072	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.35	U	0.35	0.84		5
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.31	U	0.31	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	10	U	10	33		10
10225	Aroclor 5442	12642-23-8	10	U	10	33		10
10225	Aroclor 5460	11126-42-4	51		10	33		10
10225	PCB-1016	12674-11-2	3.3	U	3.3	17		10
10225	PCB-1221	11104-28-2	3.3	U	3.3	17		10
10225	PCB-1232	11141-16-5	3.3	U	3.3	17		10
10225	PCB-1242	53469-21-9	3.3	U	3.3	17		10
10225	PCB-1248	12672-29-6	3.3	U	3.3	17		10
10225	PCB-1254	11097-69-1	76		3.3	17		10
10225	PCB-1260	11096-82-5	58		3.9	17		10
10225	PCB-1262	37324-23-5	3.3	U	3.3	17		10
10225	PCB-1268	11100-14-4	3.3	U	3.3	17		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-215-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA6-SS-0.0-0.5

LLI Sample # SW 6351919
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:39

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0409 SDG#: DE204-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C15-C20)	n.a.	10		2.0	6.1		5
10199	EFH (C21-C30)	n.a.	79		2.0	6.1		5
10199	EFH (C30 - C40)	n.a.	280		2.0	6.1		5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.1		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,500		5.84	19.3		1
07914	Boron	7440-42-8	2.82	J	0.348	4.83		1
01650	Calcium	7440-70-2	3,510		2.41	19.3		1
01654	Iron	7439-89-6	27,500		5.04	38.6		2
01656	Lithium	7439-93-2	28.3		0.60	1.9		1
01657	Magnesium	7439-95-4	5,780		0.425	9.66		1
06958	Manganese	7439-96-5	518		0.0348	0.483		1
10145	Phosphorus	7723-14-0	548		0.338	9.66		1
01662	Potassium	7440-09-7	5,020		10.9	48.3		1
01667	Sodium	7440-23-5	104		5.75	96.6		1
07968	Strontium	7440-24-6	28.8		0.0241	0.483		1
06969	Tin	7440-31-5	2.40	J	0.309	9.66		1
06970	Titanium	7440-32-6	1,220		0.0686	0.966		1
10146	Zirconium	7440-67-7	3.02	J	0.444	4.83		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.259		0.0743	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	11.2		0.0803	0.402		2
06126	Barium	7440-39-3	148		0.266	1.00		5
06127	Beryllium	7440-41-7	1.33		0.0161	0.100		2
06128	Cadmium	7440-43-9	3.97		0.0442	0.100		2
06131	Chromium	7440-47-3	53.0		0.120	0.402		2
06132	Cobalt	7440-48-4	16.3		0.0201	0.100		2
06133	Copper	7440-50-8	41.1		0.0803	0.402		2

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Sample Description: SL-215-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA6-SS-0.0-0.5

LLI Sample # SW 6351919
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:39

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0409 SDG#: DE204-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	86.6		0.0102	0.201		2
06138	Molybdenum	7439-98-7	1.97		0.0502	0.100		2
06139	Nickel	7440-02-0	52.3		0.100	0.402		2
06141	Selenium	7782-49-2	0.402		0.0582	0.402		2
06142	Silver	7440-22-4	9.62		0.0143	0.100		2
06145	Thallium	7440-28-0	0.628		0.0301	0.100		2
06148	Vanadium	7440-62-2	81.8		0.0221	0.100		2
06149	Zinc	7440-66-6	200		1.41	7.53		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0853	J	0.0070	0.0994		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.80	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.80	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.32		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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SSFL Area IV Collocated Soil Sampling
SL-215-SA6-SS-0.0-0.5

LLI Sample # SW 6351919
LLI Group # 1257475
Account # 13013

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E0409 SDG#: DE204-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11207SLC026	08/09/2011 20:25	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11211SLC026	08/15/2011 03:21	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11211SLB026	08/03/2011 14:33	Mark A Clark	5
11630	NDMA Soil Microwave	SW-846 3546	1	11207SLC026	07/27/2011 07:35	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11211SLB026	07/31/2011 17:00	Wanda F Oswald	1
00381	BNA Soil Sonication	SW-846 3550B	1	11211SLC026	08/01/2011 10:00	Denise L Trimby	1
10132	16a Energetics by 8330A	SW-846 8330A	1	112070007A	07/28/2011 16:32	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	112070008A	07/28/2011 02:28	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112130010A	08/04/2011 00:36	Anita M Dale	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112130010A	08/04/2011 22:16	Anita M Dale	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112110009A	08/23/2011 00:26	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112110009A	08/23/2011 00:41	Melissa McDermott	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112110009A	08/24/2011 07:57	Melissa McDermott	25
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112110006A	08/03/2011 21:45	Sarah M Snyder	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112110009A	08/01/2011 00:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112110006A	08/01/2011 03:00	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112130010A	08/01/2011 21:00	Elaine F Stoltzfus	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112070008A	07/26/2011 13:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112070007A	07/26/2011 15:15	Kelli M Barto	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112040011A	07/27/2011 05:33	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112030001A	07/22/2011 18:21	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112130013A	08/03/2011 08:19	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112130029A	08/03/2011 02:54	Tracy A Cole	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112130029A	08/02/2011 07:30	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112130013A	08/01/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112040011A	07/26/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112030001A	07/22/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708006	07/31/2011 02:04	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112075708006	07/31/2011 02:04	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112075708006	07/31/2011 02:04	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112075708006	08/02/2011 17:30	John P Hook	2
01656	Lithium	SW-846 6010B	1	112075708006	07/31/2011 02:04	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112075708006	07/31/2011 02:04	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112075708006	07/31/2011 02:04	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112075708006	07/31/2011 02:04	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112075708006	07/31/2011 02:04	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112075708006	07/31/2011 02:04	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112075708006	07/31/2011 02:04	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112075708006	07/31/2011 02:04	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112075708006	07/31/2011 02:04	John W Yanzuk II	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-215-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA6-SS-0.0-0.5

LLI Sample # SW 6351919
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:39

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0409 SDG#: DE204-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112075708006	07/31/2011 02:04	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112071026002A	07/29/2011 06:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112071026002A	07/29/2011 06:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112071026002D	07/29/2011 07:05	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	112071026002A	07/29/2011 06:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112071026002A	07/29/2011 06:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112071026002A	07/29/2011 06:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112071026002A	07/29/2011 06:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112071026002A	07/29/2011 06:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112071026002A	07/29/2011 06:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112071026002C	07/29/2011 06:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112071026002A	07/29/2011 06:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112071026002B	07/29/2011 06:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112071026002A	07/29/2011 06:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112071026002A	07/29/2011 06:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112071026002A	07/29/2011 06:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112071026002A	07/29/2011 07:05	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112075711003	07/27/2011 15:36	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112075708006	07/27/2011 08:41	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112071026002	07/27/2011 09:15	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112075711003	07/27/2011 11:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11210284201A	07/31/2011 13:59	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11210284201A	07/31/2011 13:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209373202A	07/31/2011 05:41	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243202A	08/04/2011 19:51	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11215102201A	08/03/2011 18:27	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11210284201A	07/29/2011 16:00	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209373202A	07/28/2011 18:00	Michael J Morrell	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11215102201A	08/03/2011 09:10	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039402A	08/01/2011 18:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243202A	08/02/2011 11:15	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401B	08/02/2011 18:22	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-218-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-218-SA6-SS-0.0-0.5

LLI Sample # SW 6351920
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 12:38

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0410 SDG#: DE204-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)pyrene	50-32-8	25	J	17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	20	J	17	170		1
04688	Benzo(k)fluoranthene	207-08-9	20	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	17	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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SSFL Area IV Collocated Soil Sampling
SL-218-SA6-SS-0.0-0.5

LLI Sample # SW 6351920
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 12:38

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0410 SDG#: DE204-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.69	J	0.33	1.7		1
10138	Anthracene	120-12-7	2.9		0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	26		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	35		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	9.3	J	6.0	18		1
10138	Chrysene	218-01-9	40		0.33	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	1.9		0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	11	J	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	230		6.0	18		1
10138	Fluoranthene	206-44-0	71		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	21		0.67	1.7		1
10138	Pyrene	129-00-0	52		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	3.1	U	3.1	8.6		5
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	4.0	U	4.0	12		5
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	1,200		77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory							

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Sample Description: SL-218-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-218-SA6-SS-0.0-0.5

LLI Sample # SW 6351920
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 12:38

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0410 SDG#: DE204-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported. Reporting limits were raised for 2,4-DB and dinoseb due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.091	U	0.091	0.34		1
01363	p,p-DDE	72-55-9	0.082	U	0.082	0.34		1
01363	p,p-DDT	50-29-3	0.73		0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.084	U	0.084	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.13	U	0.13	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.19	U	0.19	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	15		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	6.5		0.33	1.7		1
10225	PCB-1260	11096-82-5	5.9		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,400		5.95	19.7		1
07914	Boron	7440-42-8	1.27	J	0.354	4.92		1
01650	Calcium	7440-70-2	3,080		2.46	19.7		1
01654	Iron	7439-89-6	23,300		2.57	19.7		1
01656	Lithium	7439-93-2	27.8		0.61	2.0		1

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Sample Description: SL-218-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-218-SA6-SS-0.0-0.5

LLI Sample # SW 6351920
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 12:38

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0410 SDG#: DE204-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	4,690		0.433	9.84		1
06958	Manganese	7439-96-5	326		0.0354	0.492		1
10145	Phosphorus	7723-14-0	429		0.344	9.84		1
01662	Potassium	7440-09-7	2,410		11.1	49.2		1
01667	Sodium	7440-23-5	72.6	J	5.85	98.4		1
07968	Strontium	7440-24-6	19.2		0.0246	0.492		1
06969	Tin	7440-31-5	2.57	J	0.315	9.84		1
06970	Titanium	7440-32-6	941		0.0698	0.984		1
10146	Zirconium	7440-67-7	2.01	J	0.452	4.92		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.198	J	0.0742	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.7		0.0803	0.401		2
06126	Barium	7440-39-3	101		0.266	1.00		5
06127	Beryllium	7440-41-7	1.11		0.0161	0.100		2
06128	Cadmium	7440-43-9	0.501		0.0441	0.100		2
06131	Chromium	7440-47-3	38.1		0.120	0.401		2
06132	Cobalt	7440-48-4	12.6		0.0201	0.100		2
06133	Copper	7440-50-8	34.0		0.0803	0.401		2
06135	Lead	7439-92-1	27.9		0.0102	0.201		2
06138	Molybdenum	7439-98-7	1.18		0.0502	0.100		2
06139	Nickel	7440-02-0	38.6		0.100	0.401		2
06141	Selenium	7782-49-2	0.194	J	0.0582	0.401		2
06142	Silver	7440-22-4	0.466		0.0142	0.100		2
06145	Thallium	7440-28-0	0.494		0.0301	0.100		2
06148	Vanadium	7440-62-2	60.0		0.0221	0.100		2
06149	Zinc	7440-66-6	131		0.562	3.01		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0105	J	0.0070	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.80	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.0		0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.68		0.0100	0.0100		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-218-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-218-SA6-SS-0.0-0.5

LLI Sample # SW 6351920
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 12:38

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0410 SDG#: DE204-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	1.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11211SLC026	08/15/2011	03:46	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11211SLB026	08/03/2011	15:05	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11211SLB026	07/31/2011	17:00	Wanda F Oswald	1
00381	BNA Soil Sonication	SW-846 3550B	1	11211SLC026	08/01/2011	10:00	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112130010A	08/04/2011	01:04	Anita M Dale	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112130010A	08/04/2011	22:43	Anita M Dale	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112110009A	08/22/2011	23:26	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112110006A	08/03/2011	22:03	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112110009A	08/01/2011	00:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112110006A	08/01/2011	03:00	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112130010A	08/01/2011	21:00	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112075708006	07/31/2011	01:18	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112075708006	07/31/2011	01:18	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112075708006	07/31/2011	01:18	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112075708006	07/31/2011	01:18	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112075708006	07/31/2011	01:18	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112075708006	07/31/2011	01:18	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112075708006	07/31/2011	01:18	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112075708006	07/31/2011	01:18	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112075708006	07/31/2011	01:18	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112075708006	07/31/2011	01:18	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112075708006	07/31/2011	01:18	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112075708006	07/31/2011	01:18	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112075708006	07/31/2011	01:18	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112075708006	07/31/2011	01:18	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112071026002A	07/29/2011	06:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112071026002A	07/29/2011	06:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112071026002D	07/29/2011	12:28	Choon Y Tian	5

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Analysis Report

Sample Description: SL-218-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-218-SA6-SS-0.0-0.5

LLI Sample # SW 6351920
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 12:38

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0410 SDG#: DE204-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	112071026002A	07/29/2011 06:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112071026002A	07/29/2011 06:30	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112071026002A	07/29/2011 06:30	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112071026002A	07/29/2011 06:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112071026002A	07/29/2011 06:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112071026002A	07/29/2011 06:30	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112071026002C	07/29/2011 06:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112071026002A	07/29/2011 06:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112071026002B	07/29/2011 06:30	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112071026002A	07/29/2011 06:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112071026002A	07/29/2011 06:30	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112071026002A	07/29/2011 06:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112071026002A	07/29/2011 06:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112075711003	07/27/2011 15:37	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112075708006	07/27/2011 08:41	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112071026002	07/27/2011 09:15	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112075711003	07/27/2011 11:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11210284201A	07/31/2011 17:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209373202A	07/31/2011 06:04	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243202A	08/04/2011 20:13	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11210284201A	07/29/2011 16:00	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209373202A	07/28/2011 18:00	Michael J Morrell	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039402A	08/01/2011 18:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243202A	08/02/2011 11:15	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

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Analysis Report

Sample Description: SL-220-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-220-SA6-SS-0.0-0.5

LLI Sample # SW 6351921
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:19

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0411 SDG#: DE204-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzo(a)anthracene	56-55-3	240		17	170		1
04688	Benzo(a)pyrene	50-32-8	230		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	150	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	20	J	17	170		1
04688	Carbazole	86-74-8	97	J	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenz(a,h)anthracene	53-70-3	49	J	17	170		1
04688	Dibenzofuran	132-64-9	21	J	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	290	J	17	330		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	140	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1

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Sample Description: SL-220-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-220-SA6-SS-0.0-0.5

LLI Sample # SW 6351921
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:19

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0411 SDG#: DE204-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	410	J	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	27		3.4	8.4		5
10138	Acenaphthylene	208-96-8	40		1.7	8.4		5
10138	Anthracene	120-12-7	92		1.7	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	430		3.4	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	220		3.4	8.4		5
10138	Di-n-butylphthalate	84-74-2	540		30	91		5
10138	Chrysene	218-01-9	640		1.7	8.4		5
10138	Fluoranthene	206-44-0	1,900		6.7	17		10
10138	Fluorene	86-73-7	30		3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	20		3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	21		3.4	8.4		5
10138	Naphthalene	91-20-3	14		3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4		5
10138	Phenanthrene	85-01-8	1,300		3.4	8.4		5
10138	Pyrene	129-00-0	1,200		3.4	8.4		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	3.1	U	3.1	8.6		5
10401	Dicamba	1918-00-9	0.64	J	0.40	1.2		1
10401	Dinoseb	88-85-7	4.0	U	4.0	12		5
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	590		76	250		1
10401	2,4,5-T	93-76-5	0.41	U	0.41	0.86		5
10401	2,4,5-TP	93-72-1	0.38	U	0.38	0.86		5
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory							

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Sample Description: SL-220-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-220-SA6-SS-0.0-0.5

LLI Sample # SW 6351921
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:19

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0411 SDG#: DE204-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported.							
	MCPP was detected in the method blank. MCPP was not detected in the method blank associated with the reextraction. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract.							
	Reporting limits were raised for MCPP, MCPA, 2,4,5-TP, and dinoseb in the reextract due to interference from the sample matrix.							
	Reporting limits were raised for 2,4,5-TP, 2,4,5-T, dinoseb, and 2,4-DB in the original extract due to interference from the sample matrix.							
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.084	U	0.084	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	3.7	U	3.7	3.7		5
01363	p,p-DDE	72-55-9	0.69	U	0.69	0.69		1
01363	p,p-DDT	50-29-3	6.8		0.33	1.7		5
01363	Delta BHC	319-86-8	0.052	U	0.052	0.17		1
01363	Dieldrin	60-57-1	1.0	U	1.0	1.0		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.19	U	0.19	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.49	U	0.49	0.49		1
01363	Endrin	72-20-8	0.38	U	0.38	0.38		1
01363	Endrin Aldehyde	7421-93-4	1.1	U	1.1	1.1		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.14	J	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	5.3	U	5.3	5.3		1
01363	Mirex	2385-85-5	0.92	U	0.92	0.92		1
01363	Toxaphene	8001-35-2	25	U	25	33		5
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	The surrogate data in the original extract is outside the QC limits.							
	Results from the reextraction are also outside the QC limits, indicating possible matrix interference.							
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	51	U	51	170		50
10225	Aroclor 5442	12642-23-8	51	U	51	170		50
10225	Aroclor 5460	11126-42-4	130	J	51	170		50
10225	PCB-1016	12674-11-2	17	U	17	86		50
10225	PCB-1221	11104-28-2	17	U	17	86		50
10225	PCB-1232	11141-16-5	17	U	17	86		50
10225	PCB-1242	53469-21-9	17	U	17	86		50
10225	PCB-1248	12672-29-6	17	U	17	86		50
10225	PCB-1254	11097-69-1	210		17	86		50

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Sample Description: SL-220-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-220-SA6-SS-0.0-0.5

LLI Sample # SW 6351921
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:19

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0411 SDG#: DE204-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	120		20	86		50
10225	PCB-1262	37324-23-5	17	U	17	86		50
10225	PCB-1268	11100-14-4	17	U	17	86		50
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,300		5.94	19.6		1
07914	Boron	7440-42-8	2.36	J	0.353	4.91		1
01650	Calcium	7440-70-2	2,160		2.45	19.6		1
01654	Iron	7439-89-6	16,300		2.56	19.6		1
01656	Lithium	7439-93-2	14.2		0.61	2.0		1
01657	Magnesium	7439-95-4	3,220		0.432	9.82		1
06958	Manganese	7439-96-5	175		0.0353	0.491		1
10145	Phosphorus	7723-14-0	357		0.344	9.82		1
01662	Potassium	7440-09-7	2,270		11.1	49.1		1
01667	Sodium	7440-23-5	83.8	J	5.84	98.2		1
07968	Strontium	7440-24-6	13.8		0.0245	0.491		1
06969	Tin	7440-31-5	2.81	J	0.314	9.82		1
06970	Titanium	7440-32-6	726		0.0697	0.982		1
10146	Zirconium	7440-67-7	1.90	J	0.452	4.91		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.550		0.0719	0.194		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.06		0.0778	0.389		2
06126	Barium	7440-39-3	154		0.103	0.389		2
06127	Beryllium	7440-41-7	0.786		0.0156	0.0972		2
06128	Cadmium	7440-43-9	2.84		0.0428	0.0972		2
06131	Chromium	7440-47-3	53.4		0.117	0.389		2
06132	Cobalt	7440-48-4	13.4		0.0194	0.0972		2
06133	Copper	7440-50-8	58.3		0.0778	0.389		2
06135	Lead	7439-92-1	121		0.0496	0.972		10
06138	Molybdenum	7439-98-7	2.69		0.0486	0.0972		2
06139	Nickel	7440-02-0	76.0		0.0972	0.389		2
06141	Selenium	7782-49-2	0.316	J	0.0564	0.389		2
06142	Silver	7440-22-4	3.26		0.0138	0.0972		2
06145	Thallium	7440-28-0	0.389		0.0292	0.0972		2
06148	Vanadium	7440-62-2	52.5		0.0214	0.0972		2
06149	Zinc	7440-66-6	230		2.72	14.6		10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0868	J	0.0070	0.0994		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-220-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-220-SA6-SS-0.0-0.5

LLI Sample # SW 6351921
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:19

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E0411 SDG#: DE204-11

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.1	U	9.1	30.3		1
		SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199		18540-29-9	3.1		0.20	1.0		1
		SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C		n.a.	6.28		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3		n.a.	1.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11211SLC026	08/15/2011	04:11	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11211SLB026	08/03/2011	15:37	Mark A Clark	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11211SLB026	08/04/2011	22:34	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11211SLB026	07/31/2011	17:00	Wanda F Oswald	1
00381	BNA Soil Sonication	SW-846 3550B	1	11211SLC026	08/01/2011	10:00	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112130010A	08/04/2011	01:31	Anita M Dale	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112130010A	08/04/2011	23:11	Anita M Dale	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112110009A	08/25/2011	07:02	Melissa McDermott	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112110009A	08/25/2011	07:17	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112110006A	08/03/2011	22:22	Sarah M Snyder	50
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112110009A	08/01/2011	00:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112110006A	08/01/2011	03:00	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112130010A	08/01/2011	21:00	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112075708006	07/31/2011	01:22	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112075708006	07/31/2011	01:22	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112075708006	07/31/2011	01:22	John W Yanzuk II	1

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Sample Description: SL-220-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-220-SA6-SS-0.0-0.5

LLI Sample # SW 6351921
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:19

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E0411 SDG#: DE204-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	112075708006	07/31/2011 01:22	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112075708006	07/31/2011 01:22	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112075708006	07/31/2011 01:22	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112075708006	07/31/2011 01:22	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112075708006	07/31/2011 01:22	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112075708006	07/31/2011 01:22	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112075708006	07/31/2011 01:22	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112075708006	07/31/2011 01:22	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112075708006	07/31/2011 01:22	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112075708006	07/31/2011 01:22	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112075708006	07/31/2011 01:22	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112071026002A	07/29/2011 06:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112071026002A	07/29/2011 06:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112071026002D	07/29/2011 06:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112071026002A	07/29/2011 06:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112071026002A	07/29/2011 06:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112071026002A	07/29/2011 06:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112071026002A	07/29/2011 06:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112071026002A	07/29/2011 06:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112071026002A	07/29/2011 07:08	Choon Y Tian	10
06138	Molybdenum	SW-846 6020	1	112071026002C	07/29/2011 06:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112071026002A	07/29/2011 06:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112071026002B	07/29/2011 06:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112071026002A	07/29/2011 06:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112071026002A	07/29/2011 06:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112071026002A	07/29/2011 06:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112071026002A	07/29/2011 07:08	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	112075711003	07/27/2011 15:38	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112075708006	07/27/2011 08:41	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112071026002	07/27/2011 09:15	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112075711003	07/27/2011 11:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11210284201B	07/31/2011 17:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209373202B	07/31/2011 06:27	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243202A	08/04/2011 20:27	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11210284201B	07/29/2011 16:00	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209373202B	07/28/2011 18:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039402A	08/01/2011 18:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243202A	08/02/2011 11:15	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

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Analysis Report

Sample Description: SL-310-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-310-SA6-SS-0.0-0.5

LLI Sample # SW 6351922
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:51

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0412 SDG#: DE204-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)pyrene	50-32-8	20	J	17	170		1
04688	Benzo(b)fluoranthene	205-99-2	23	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Chrysene	218-01-9	28	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	100	J	17	340		1
04688	Fluoranthene	206-44-0	37	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1

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Sample Description: SL-310-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-310-SA6-SS-0.0-0.5

LLI Sample # SW 6351922
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:51

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0412 SDG#: DE204-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenanthrene	85-01-8	21	J	17	170		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	41	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.3	U	3.3	8.4		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4		5
10138	Anthracene	120-12-7	2.4	J	1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	6.5	J	3.3	8.4		5
10138	Benzo(g,h,i)perylene	191-24-2	4.0	J	3.3	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	5.4	J	3.3	8.4		5
10138	Di-n-butylphthalate	84-74-2	75	J	30	90		5
10138	Dibenz(a,h)anthracene	53-70-3	3.3	U	3.3	8.4		5
10138	Fluorene	86-73-7	3.3	U	3.3	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.3	U	3.3	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.3	U	3.3	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.3	U	3.3	8.4		5
10138	Naphthalene	91-20-3	3.3	U	3.3	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.4		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	15	U	15	15		1
10401	Dicamba	1918-00-9	1.1	J	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	820		76	250		1
10401	2,4,5-T	93-76-5	0.14	U	0.14	0.17		1
10401	2,4,5-TP	93-72-1	0.84		0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory							

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Sample Description: SL-310-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-310-SA6-SS-0.0-0.5

LLI Sample # SW 6351922
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:51

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0412 SDG#: DE204-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported.							
	MCPP was detected in the method blank. MCPP was not detected in the method blank associated with the reextraction. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract.							
	MCPP and 2,4,5-TP were not detected in the reextract.							
	Reporting limits were raised for 2,4,5-T and 2,4-DB due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	8.1		0.81	3.4		1
01363	p,p-DDD	72-54-8	1.7	U	1.7	1.7		1
01363	p,p-DDE	72-55-9	30		1.3	6.9		20
01363	p,p-DDT	50-29-3	49		1.3	6.9		20
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	2.6	U	2.6	6.9		20
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.69	U	0.69	0.69		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.47	U	0.47	0.47		1
01363	Endrin Aldehyde	7421-93-4	0.80	U	0.80	0.80		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.44	U	0.44	0.44		1
01363	Toxaphene	8001-35-2	54	U	54	54		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	20	U	20	66		20
10225	Aroclor 5442	12642-23-8	20	U	20	66		20
10225	Aroclor 5460	11126-42-4	69		20	66		20
10225	PCB-1016	12674-11-2	6.6	U	6.6	34		20
10225	PCB-1221	11104-28-2	6.6	U	6.6	34		20
10225	PCB-1232	11141-16-5	6.6	U	6.6	34		20
10225	PCB-1242	53469-21-9	6.6	U	6.6	34		20
10225	PCB-1248	12672-29-6	6.6	U	6.6	34		20
10225	PCB-1254	11097-69-1	51		6.6	34		20
10225	PCB-1260	11096-82-5	26	J	7.9	34		20
10225	PCB-1262	37324-23-5	6.6	U	6.6	34		20

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Sample Description: SL-310-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-310-SA6-SS-0.0-0.5

LLI Sample # SW 6351922
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:51

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E0412 SDG#: DE204-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	6.6	U	6.6	34		20
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,300		6.11	20.2		1
07914	Boron	7440-42-8	2.28	J	0.364	5.05		1
01650	Calcium	7440-70-2	2,240		2.53	20.2		1
01654	Iron	7439-89-6	16,500		2.64	20.2		1
01656	Lithium	7439-93-2	19.1		0.63	2.0		1
01657	Magnesium	7439-95-4	3,760		0.444	10.1		1
06958	Manganese	7439-96-5	258		0.0364	0.505		1
10145	Phosphorus	7723-14-0	389		0.354	10.1		1
01662	Potassium	7440-09-7	3,080		11.4	50.5		1
01667	Sodium	7440-23-5	71.4	J	6.01	101		1
07968	Strontium	7440-24-6	15.2		0.0253	0.505		1
06969	Tin	7440-31-5	2.40	J	0.323	10.1		1
06970	Titanium	7440-32-6	933		0.0717	1.01		1
10146	Zirconium	7440-67-7	2.78	J	0.465	5.05		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0792	J	0.0719	0.194		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.73		0.0777	0.389		2
06126	Barium	7440-39-3	86.4		0.103	0.389		2
06127	Beryllium	7440-41-7	0.481		0.0155	0.0971		2
06128	Cadmium	7440-43-9	0.699		0.0427	0.0971		2
06131	Chromium	7440-47-3	20.7		0.117	0.389		2
06132	Cobalt	7440-48-4	5.53		0.0194	0.0971		2
06133	Copper	7440-50-8	15.7		0.0777	0.389		2
06135	Lead	7439-92-1	68.5		0.0099	0.194		2
06138	Molybdenum	7439-98-7	0.684		0.0486	0.0971		2
06139	Nickel	7440-02-0	17.3		0.0971	0.389		2
06141	Selenium	7782-49-2	0.111	J	0.0563	0.389		2
06142	Silver	7440-22-4	0.673		0.0138	0.0971		2
06145	Thallium	7440-28-0	0.205		0.0291	0.0971		2
06148	Vanadium	7440-62-2	31.2		0.0214	0.0971		2
06149	Zinc	7440-66-6	116		0.544	2.91		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0506	J	0.0069	0.0980		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.80	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-310-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-310-SA6-SS-0.0-0.5

LLI Sample # SW 6351922
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:51

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0412 SDG#: DE204-12

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.80	J	0.20	1.0		1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.64		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	1.0		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11211SLC026	08/15/2011	04:36	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11211SLB026	08/03/2011	16:09	Mark A Clark	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11211SLB026	07/31/2011	17:00	Wanda F Oswald	1
00381	BNA Soil Sonication	SW-846 3550B	1	11211SLC026	08/01/2011	10:00	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112130010A	08/04/2011	01:59	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112110009A	08/23/2011	01:41	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112110009A	08/23/2011	02:10	Melissa McDermott	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112110006A	08/05/2011	15:25	Sarah M Snyder	20
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112110009A	08/01/2011	00:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112110006A	08/01/2011	03:00	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112130010A	08/01/2011	21:00	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112075708006	07/31/2011	01:26	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112075708006	07/31/2011	01:26	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112075708006	07/31/2011	01:26	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112075708006	07/31/2011	01:26	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112075708006	07/31/2011	01:26	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112075708006	07/31/2011	01:26	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112075708006	07/31/2011	01:26	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112075708006	07/31/2011	01:26	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112075708006	07/31/2011	01:26	John W Yanzuk II	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-310-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-310-SA6-SS-0.0-0.5

LLI Sample # SW 6351922
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:51

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0412 SDG#: DE204-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	112075708006	07/31/2011 01:26	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112075708006	07/31/2011 01:26	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112075708006	07/31/2011 01:26	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112075708006	07/31/2011 01:26	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112075708006	07/31/2011 01:26	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112071026002A	07/29/2011 06:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112071026002A	07/29/2011 06:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112071026002D	07/29/2011 06:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112071026002A	07/29/2011 06:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112071026002A	07/29/2011 06:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112071026002A	07/29/2011 06:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112071026002A	07/29/2011 06:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112071026002A	07/29/2011 06:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112071026002A	07/29/2011 06:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112071026002C	07/29/2011 06:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112071026002A	07/29/2011 06:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112071026002B	07/29/2011 06:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112071026002A	07/29/2011 06:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112071026002A	07/29/2011 06:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112071026002A	07/29/2011 06:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112071026002A	07/29/2011 06:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112075711003	07/27/2011 15:39	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112075708006	07/27/2011 08:41	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112071026002	07/27/2011 09:15	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112075711003	07/27/2011 11:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11210284201B	07/31/2011 18:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209373202B	07/31/2011 07:59	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243202A	08/04/2011 20:35	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11210284201B	07/29/2011 16:00	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209373202B	07/28/2011 18:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039402A	08/01/2011 18:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243202A	08/02/2011 11:15	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-321-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA6-SS-0.0-0.5

LLI Sample # SW 6351923
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:10

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0413 SDG#: DE204-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)pyrene	50-32-8	23	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	79	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

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Sample Description: SL-321-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA6-SS-0.0-0.5

LLI Sample # SW 6351923
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:10

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Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0413 SDG#: DE204-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7		1
10138	Anthracene	120-12-7	0.33	U	0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.67	U	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	0.93	J	0.33	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Fluoranthene	206-44-0	0.73	J	0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	0.67	U	0.67	1.7		1
10138	Pyrene	129-00-0	0.67	U	0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	3.5		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.4	J	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.21	U	0.21	0.21		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							

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SSFL Area IV Collocated Soil Sampling
SL-321-SA6-SS-0.0-0.5

LLI Sample # SW 6351923
LLI Group # 1257475
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Collected: 07/20/2011 10:10

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E0413 SDG#: DE204-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Reporting limits were raised for 2,4,5-T due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.067	U	0.067	0.35		1
01363	p,p-DDT	50-29-3	0.12	U	0.12	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	1.2	U	1.2	1.2		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The surrogate data in the original extract is outside the QC limits. Results from the reextraction are also outside the QC limits, indicating possible matrix interference. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	2.0		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-321-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA6-SS-0.0-0.5

LLI Sample # SW 6351923
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:10

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0413 SDG#: DE204-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	1.2	J	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	9.9		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	34		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.46	J	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,300		5.91	19.5		1
07914	Boron	7440-42-8	1.98	J	0.352	4.89		1
01650	Calcium	7440-70-2	3,300		2.44	19.5		1
01654	Iron	7439-89-6	26,600		5.10	39.1		2
01656	Lithium	7439-93-2	31.8		0.61	2.0		1
01657	Magnesium	7439-95-4	6,540		0.430	9.77		1
06958	Manganese	7439-96-5	334		0.0352	0.489		1
10145	Phosphorus	7723-14-0	463		0.342	9.77		1
01662	Potassium	7440-09-7	2,840		11.0	48.9		1
01667	Sodium	7440-23-5	102		5.81	97.7		1
07968	Strontium	7440-24-6	20.8		0.0244	0.489		1
06969	Tin	7440-31-5	2.55	J	0.313	9.77		1
06970	Titanium	7440-32-6	1,170		0.0694	0.977		1
10146	Zirconium	7440-67-7	2.41	J	0.449	4.89		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.141	J	0.0730	0.197		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	11.6		0.0789	0.395		2
06126	Barium	7440-39-3	166		0.105	0.395		2
06127	Beryllium	7440-41-7	1.13		0.0158	0.0987		2
06128	Cadmium	7440-43-9	0.108		0.0434	0.0987		2
06131	Chromium	7440-47-3	42.2		0.118	0.395		2
06132	Cobalt	7440-48-4	13.0		0.0197	0.0987		2
06133	Copper	7440-50-8	22.9		0.0789	0.395		2

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Sample Description: SL-321-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA6-SS-0.0-0.5

LLI Sample # SW 6351923
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:10

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0413 SDG#: DE204-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	12.2	0.0101	0.197		2
06138	Molybdenum	7439-98-7	1.03	0.0493	0.0987		2
06139	Nickel	7440-02-0	29.4	0.0987	0.395		2
06141	Selenium	7782-49-2	0.184 J	0.0572	0.395		2
06142	Silver	7440-22-4	0.0770 J	0.0140	0.0987		2
06145	Thallium	7440-28-0	0.476	0.0296	0.0987		2
06148	Vanadium	7440-62-2	73.9	0.0217	0.0987		2
06149	Zinc	7440-66-6	108	0.553	2.96		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0066 U	0.0066	0.0942		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5	0.81	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1 U	9.1	30.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.33 J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.86	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11211SLC026	08/15/2011 05:01	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11211SLB026	08/03/2011 16:40	Mark A Clark	1

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Sample Description: SL-321-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA6-SS-0.0-0.5

LLI Sample # SW 6351923
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:10

Submitted: 07/21/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0413 SDG#: DE204-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11211SLB026	07/31/2011 17:00	Wanda F Oswald	1
00381	BNA Soil Sonication	SW-846 3550B	1	11211SLC026	08/01/2011 10:00	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112130010A	08/04/2011 02:26	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112110009A	08/22/2011 23:40	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112110006A	08/03/2011 22:59	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112110009A	08/01/2011 00:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112110006A	08/01/2011 03:00	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112130010A	08/01/2011 21:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112040011A	07/27/2011 05:48	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112030001A	07/22/2011 18:33	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112130013A	08/03/2011 04:37	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112130029A	08/02/2011 20:05	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112130029A	08/02/2011 07:30	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112130013A	08/01/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112040011A	07/26/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112030001A	07/22/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708006	07/31/2011 01:30	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112075708006	07/31/2011 01:30	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112075708006	07/31/2011 01:30	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112075708006	08/02/2011 17:22	John P Hook	2
01656	Lithium	SW-846 6010B	1	112075708006	07/31/2011 01:30	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112075708006	07/31/2011 01:30	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112075708006	07/31/2011 01:30	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112075708006	07/31/2011 01:30	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112075708006	07/31/2011 01:30	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112075708006	07/31/2011 01:30	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112075708006	07/31/2011 01:30	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112075708006	07/31/2011 01:30	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112075708006	07/31/2011 01:30	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112075708006	07/31/2011 01:30	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112071026002A	07/29/2011 06:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112071026002A	07/29/2011 06:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112071026002D	07/29/2011 06:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112071026002A	07/29/2011 06:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112071026002A	07/29/2011 06:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112071026002A	07/29/2011 06:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112071026002A	07/29/2011 06:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112071026002A	07/29/2011 06:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112071026002A	07/29/2011 06:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112071026002C	07/29/2011 06:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112071026002A	07/29/2011 06:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112071026002B	07/29/2011 06:40	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-321-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA6-SS-0.0-0.5

LLI Sample # SW 6351923
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:10

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0413 SDG#: DE204-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112071026002A	07/29/2011 06:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112071026002A	07/29/2011 06:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112071026002A	07/29/2011 06:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112071026002A	07/29/2011 06:40	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112075711003	07/27/2011 15:41	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112075708006	07/27/2011 08:41	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112071026002	07/27/2011 09:15	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112075711003	07/27/2011 11:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11210284201B	07/31/2011 18:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209373202B	07/31/2011 08:22	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243202A	08/04/2011 20:56	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11210284201B	07/29/2011 16:00	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209373202B	07/28/2011 18:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039402A	08/01/2011 18:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243202A	08/02/2011 11:15	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-322-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA6-SS-0.0-0.5

LLI Sample # SW 6351924
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:52

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0414 SDG#: DE204-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	17	340		1
04688	Fluoranthene	206-44-0	40	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

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Sample Description: SL-322-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA6-SS-0.0-0.5

LLI Sample # SW 6351924
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:52

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E0414 SDG#: DE204-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenanthrene	85-01-8	24	J	17	170		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	43	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.76	J	0.34	1.7		1
10138	Anthracene	120-12-7	2.2		0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.8		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.92	J	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	4.3		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.4	J	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	4.3		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	0.62	U	0.62	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	720		76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							

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Sample Description: SL-322-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA6-SS-0.0-0.5

LLI Sample # SW 6351924
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:52

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0414 SDG#: DE204-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.34		1
01363	p,p-DDE	72-55-9	0.067	U	0.067	0.34		1
01363	p,p-DDT	50-29-3	0.12	U	0.12	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.11	U	0.11	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	2.9		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1

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Sample Description: SL-322-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA6-SS-0.0-0.5

LLI Sample # SW 6351924
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:52

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0414 SDG#: DE204-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	0.57	J	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	4.0		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	9.1		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,100		6.00	19.8		1
07914	Boron	7440-42-8	1.87	J	0.357	4.96		1
01650	Calcium	7440-70-2	3,200		2.48	19.8		1
01654	Iron	7439-89-6	25,300		5.18	39.7		2
01656	Lithium	7439-93-2	30.9		0.62	2.0		1
01657	Magnesium	7439-95-4	6,140		0.437	9.92		1
06958	Manganese	7439-96-5	304		0.0357	0.496		1
10145	Phosphorus	7723-14-0	483		0.347	9.92		1
01662	Potassium	7440-09-7	3,420		11.2	49.6		1
01667	Sodium	7440-23-5	94.0	J	5.90	99.2		1
07968	Strontium	7440-24-6	21.1		0.0248	0.496		1
06969	Tin	7440-31-5	2.56	J	0.318	9.92		1
06970	Titanium	7440-32-6	1,150		0.0705	0.992		1
10146	Zirconium	7440-67-7	2.16	J	0.456	4.96		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.145	J	0.0720	0.195		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.0		0.0779	0.389		2
06126	Barium	7440-39-3	168		0.103	0.389		2
06127	Beryllium	7440-41-7	1.02		0.0156	0.0973		2
06128	Cadmium	7440-43-9	0.136		0.0428	0.0973		2
06131	Chromium	7440-47-3	35.1		0.117	0.389		2
06132	Cobalt	7440-48-4	12.8		0.0195	0.0973		2
06133	Copper	7440-50-8	20.1		0.0779	0.389		2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-322-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA6-SS-0.0-0.5

LLI Sample # SW 6351924
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:52

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0414 SDG#: DE204-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	13.1	0.0099	0.195		2
06138	Molybdenum	7439-98-7	0.933	0.0487	0.0973		2
06139	Nickel	7440-02-0	25.7	0.0973	0.389		2
06141	Selenium	7782-49-2	0.215 J	0.0564	0.389		2
06142	Silver	7440-22-4	0.0899 J	0.0138	0.0973		2
06145	Thallium	7440-28-0	0.439	0.0292	0.0973		2
06148	Vanadium	7440-62-2	64.3	0.0214	0.0973		2
06149	Zinc	7440-66-6	112	0.545	2.92		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076 J	0.0070	0.0994		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1	0.80	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1 U	9.1	30.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30 J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.70	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11211SLC026	08/15/2011 05:26	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11211SLB026	08/03/2011 17:12	Mark A Clark	1

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Sample Description: SL-322-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA6-SS-0.0-0.5

LLI Sample # SW 6351924
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Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0414 SDG#: DE204-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11211SLB026	07/31/2011 17:00	Wanda F Oswald	1
00381	BNA Soil Sonication	SW-846 3550B	1	11211SLC026	08/01/2011 10:00	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112130010A	08/04/2011 02:54	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112110009A	08/22/2011 23:55	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112110006A	08/03/2011 23:18	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112110009A	08/01/2011 00:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112110006A	08/01/2011 03:00	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112130010A	08/01/2011 21:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112040011A	07/27/2011 06:03	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112030001A	07/22/2011 18:46	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112130013A	08/03/2011 00:10	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112130029A	08/02/2011 18:52	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112130029A	08/02/2011 07:30	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112130013A	08/01/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112040011A	07/26/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112030001A	07/22/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708006	07/31/2011 01:42	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112075708006	07/31/2011 01:42	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112075708006	07/31/2011 01:42	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112075708006	08/02/2011 17:26	John P Hook	2
01656	Lithium	SW-846 6010B	1	112075708006	07/31/2011 01:42	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112075708006	07/31/2011 01:42	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112075708006	07/31/2011 01:42	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112075708006	07/31/2011 01:42	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112075708006	07/31/2011 01:42	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112075708006	07/31/2011 01:42	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112075708006	07/31/2011 01:42	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112075708006	07/31/2011 01:42	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112075708006	07/31/2011 01:42	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112075708006	07/31/2011 01:42	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112071026002A	07/29/2011 06:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112071026002A	07/29/2011 06:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112071026002D	07/29/2011 06:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112071026002A	07/29/2011 06:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112071026002A	07/29/2011 06:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112071026002A	07/29/2011 06:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112071026002A	07/29/2011 06:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112071026002A	07/29/2011 06:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112071026002A	07/29/2011 06:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112071026002C	07/29/2011 06:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112071026002A	07/29/2011 06:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112071026002B	07/29/2011 06:49	Choon Y Tian	2

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Analysis Report

Sample Description: SL-322-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA6-SS-0.0-0.5

LLI Sample # SW 6351924
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:52

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0414 SDG#: DE204-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112071026002A	07/29/2011 06:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112071026002A	07/29/2011 06:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112071026002A	07/29/2011 06:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112071026002A	07/29/2011 06:49	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112075711003	07/27/2011 15:42	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112075708006	07/27/2011 08:41	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112071026002	07/27/2011 09:15	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112075711003	07/27/2011 11:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11210284201B	07/31/2011 19:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209373202B	07/31/2011 08:46	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243202A	08/04/2011 21:25	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11210284201B	07/29/2011 16:00	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209373202B	07/28/2011 18:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039402A	08/01/2011 18:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243202A	08/02/2011 11:15	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP04-SA6-QC-072011 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA6-QC-072011

LLI Sample # SW 6351925
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0415 SDG#: DE204-15FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	29	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1

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SSFL Area IV Collocated Soil Sampling
DUP04-SA6-QC-072011

LLI Sample # SW 6351925
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0415 SDG#: DE204-15FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.69	J	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	2.2		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	0.63	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	0.97	J	0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	0.72	J	0.67	1.7		1
10138	Pyrene	129-00-0	0.67	U	0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	0.73	U	0.73	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	350		77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							

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Sample Description: DUP04-SA6-QC-072011 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA6-QC-072011

LLI Sample # SW 6351925
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0415 SDG#: DE204-15FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Reporting limits were raised for 2,4-DB due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.067	U	0.067	0.35		1
01363	p,p-DDT	50-29-3	0.095	J	0.067	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1

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Sample Description: DUP04-SA6-QC-072011 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA6-QC-072011

LLI Sample # SW 6351925
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E0415 SDG#: DE204-15FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	1.3		0.41	1.2		1
10199	EFH (C21-C30)	n.a.	9.4		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	27		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	1.2	J	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,800		5.99	19.8		1
07914	Boron	7440-42-8	2.34	J	0.356	4.95		1
01650	Calcium	7440-70-2	2,930		2.47	19.8		1
01654	Iron	7439-89-6	23,100		2.58	19.8		1
01656	Lithium	7439-93-2	28.1		0.61	2.0		1
01657	Magnesium	7439-95-4	5,630		0.435	9.90		1
06958	Manganese	7439-96-5	292		0.0356	0.495		1
10145	Phosphorus	7723-14-0	416		0.346	9.90		1
01662	Potassium	7440-09-7	2,730		11.2	49.5		1
01667	Sodium	7440-23-5	90.3	J	5.89	99.0		1
07968	Strontium	7440-24-6	17.5		0.0247	0.495		1
06969	Tin	7440-31-5	2.28	J	0.317	9.90		1
06970	Titanium	7440-32-6	1,130		0.0703	0.990		1
10146	Zirconium	7440-67-7	2.43	J	0.455	4.95		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.172	J	0.0754	0.204		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.1		0.0815	0.408		2
06126	Barium	7440-39-3	160		0.108	0.408		2
06127	Beryllium	7440-41-7	1.07		0.0163	0.102		2
06128	Cadmium	7440-43-9	0.147		0.0449	0.102		2
06131	Chromium	7440-47-3	37.0		0.122	0.408		2
06132	Cobalt	7440-48-4	13.8		0.0204	0.102		2
06133	Copper	7440-50-8	19.9		0.0815	0.408		2
06135	Lead	7439-92-1	11.5		0.0104	0.204		2

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Sample Description: DUP04-SA6-QC-072011 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA6-QC-072011

LLI Sample # SW 6351925
LLI Group # 1257475
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Project Name: SSFL Area IV Collocated Soil Sampling

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E0415 SDG#: DE204-15FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06138	Molybdenum	7439-98-7	0.976		0.0510	0.102		2
06139	Nickel	7440-02-0	27.9		0.102	0.408		2
06141	Selenium	7782-49-2	0.224	J	0.0591	0.408		2
06142	Silver	7440-22-4	0.0872	J	0.0145	0.102		2
06145	Thallium	7440-28-0	0.446		0.0306	0.102		2
06148	Vanadium	7440-62-2	66.7		0.0224	0.102		2
06149	Zinc	7440-66-6	102		0.571	3.06		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0079	J	0.0067	0.0950		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.70		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.9		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11211SLC026	08/15/2011 05:51	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11211SLB026	08/03/2011 17:44	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11211SLB026	07/31/2011 17:00	Wanda F Oswald	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP04-SA6-QC-072011 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA6-QC-072011

LLI Sample # SW 6351925
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0415 SDG#: DE204-15FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	11211SLC026	08/01/2011 10:00	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112130010A	08/04/2011 03:21	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112110009A	08/23/2011 00:11	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112110006A	08/04/2011 00:50	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112110009A	08/01/2011 00:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112110006A	08/01/2011 03:00	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112130010A	08/01/2011 21:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112040011A	07/27/2011 06:18	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112030001A	07/22/2011 18:59	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112130013A	08/03/2011 05:22	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112130029A	08/02/2011 20:53	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112130029A	08/02/2011 07:30	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112130013A	08/01/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112040011A	07/26/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112030001A	07/22/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708006	07/31/2011 01:47	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112075708006	07/31/2011 01:47	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112075708006	07/31/2011 01:47	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112075708006	07/31/2011 01:47	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112075708006	07/31/2011 01:47	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112075708006	07/31/2011 01:47	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112075708006	07/31/2011 01:47	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112075708006	07/31/2011 01:47	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112075708006	07/31/2011 01:47	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112075708006	07/31/2011 01:47	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112075708006	07/31/2011 01:47	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112075708006	07/31/2011 01:47	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112075708006	07/31/2011 01:47	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112075708006	07/31/2011 01:47	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112071026002A	07/29/2011 06:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112071026002A	07/29/2011 06:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112071026002D	07/29/2011 06:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112071026002A	07/29/2011 06:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112071026002A	07/29/2011 06:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112071026002A	07/29/2011 06:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112071026002A	07/29/2011 06:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112071026002A	07/29/2011 06:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112071026002A	07/29/2011 06:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112071026002C	07/29/2011 06:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112071026002A	07/29/2011 06:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112071026002B	07/29/2011 06:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112071026002A	07/29/2011 06:52	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: DUP04-SA6-QC-072011 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA6-QC-072011

LLI Sample # SW 6351925
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0415 SDG#: DE204-15FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	112071026002A	07/29/2011 06:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112071026002A	07/29/2011 06:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112071026002A	07/29/2011 06:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112075711003	07/27/2011 15:43	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112075708006	07/27/2011 08:41	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112071026002	07/27/2011 09:15	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112075711003	07/27/2011 11:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11210284201B	07/31/2011 19:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209373202B	07/31/2011 09:09	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243202A	08/04/2011 21:32	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11210284201B	07/29/2011 16:00	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209373202B	07/28/2011 18:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039402B	08/01/2011 18:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243202A	08/02/2011 11:15	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

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Analysis Report

Sample Description: SL-086-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA6-SB-4.0-5.0

LLI Sample # SW 6351926
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:40

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0416 SDG#: DE204-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	12		7.5	8.9		1.03
06192	Benzene	71-43-2	0.11	U	0.11	4.5		1.03
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.5		1.03
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		1.03
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		1.03
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		1.03
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		1.03
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9		1.03
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.5		1.03
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		1.03
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		1.03
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		1.03
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		1.03
06192	Chloroethane	75-00-3	0.14	U	0.14	4.5		1.03
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.5		1.03
06192	Chloroform	67-66-3	0.13	U	0.13	4.5		1.03
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		1.03
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		1.03
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		1.03
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		1.03
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.5		1.03
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.5		1.03
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		1.03
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		1.03
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.5		1.03
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.5		1.03
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		1.03
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.5		1.03
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		1.03
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		1.03
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.5		1.03
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		1.03
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.5		1.03
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		1.03
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		1.03
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		1.03
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.5		1.03
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		1.03
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		1.03
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		1.03
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		1.03
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		1.03
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		1.03
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		1.03
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		1.03
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		1.03
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.5		1.03
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9		1.03
06192	Methylene Chloride	75-09-2	15		0.27	4.5		1.03
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		1.03

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Sample Description: SL-086-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA6-SB-4.0-5.0

LLI Sample # SW 6351926
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:40

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0416 SDG#: DE204-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		1.03
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		1.03
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		1.03
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.5		1.03
06192	Toluene	108-88-3	0.14	J	0.09	4.5		1.03
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		1.03
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		1.03
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.5		1.03
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5		1.03
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		1.03
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.5		1.03
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		1.03
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		1.03
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		1.03
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.5		1.03
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		1.03
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		1.03
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.64
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-086-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA6-SB-4.0-5.0

LLI Sample # SW 6351926
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:40

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0416 SDG#: DE204-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.96	J	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.3		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.2		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	2.3		0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	1.2	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	1.1	J	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1

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Sample Description: SL-086-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA6-SB-4.0-5.0

LLI Sample # SW 6351926
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:40

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0416 SDG#: DE204-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.83	J	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		23.02
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	35		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	5.0		0.36	1.8		1
10225	PCB-1260	11096-82-5	6.6		0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1

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Sample Description: SL-086-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA6-SB-4.0-5.0

LLI Sample # SW 6351926
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:40

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0416 SDG#: DE204-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	43	U	43	130		100
10199	EFH (C15-C20)	n.a.	43	U	43	130		100
10199	EFH (C21-C30)	n.a.	730		43	130		100
10199	EFH (C30 - C40)	n.a.	2,600		43	130		100
10199	EFH (C8-C11)	n.a.	43	U	43	130		100
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,700		6.32	20.9		1
07914	Boron	7440-42-8	1.49	J	0.376	5.22		1
01650	Calcium	7440-70-2	5,010		2.61	20.9		1
01654	Iron	7439-89-6	21,400		2.72	20.9		1
01656	Lithium	7439-93-2	22.3		0.65	2.1		1
01657	Magnesium	7439-95-4	4,940		0.459	10.4		1
06958	Manganese	7439-96-5	279		0.0376	0.522		1
10145	Phosphorus	7723-14-0	685		0.365	10.4		1
01662	Potassium	7440-09-7	2,290		11.8	52.2		1
01667	Sodium	7440-23-5	205		6.21	104		1
07968	Strontium	7440-24-6	19.0		0.0261	0.522		1
06969	Tin	7440-31-5	2.26	J	0.334	10.4		1
06970	Titanium	7440-32-6	1,060		0.0741	1.04		1
10146	Zirconium	7440-67-7	1.83	J	0.480	5.22		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.163	J	0.0773	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	27.4		0.0835	0.418		2
06126	Barium	7440-39-3	144		0.111	0.418		2
06127	Beryllium	7440-41-7	0.820		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.284		0.0459	0.104		2
06131	Chromium	7440-47-3	28.8		0.125	0.418		2
06132	Cobalt	7440-48-4	24.7		0.0209	0.104		2
06133	Copper	7440-50-8	36.5		0.0835	0.418		2
06135	Lead	7439-92-1	12.8		0.0106	0.209		2
06138	Molybdenum	7439-98-7	4.11		0.0522	0.104		2
06139	Nickel	7440-02-0	19.6		0.104	0.418		2
06141	Selenium	7782-49-2	0.316	J	0.0606	0.418		2
06142	Silver	7440-22-4	0.0768	J	0.0148	0.104		2
06145	Thallium	7440-28-0	0.380		0.0313	0.104		2
06148	Vanadium	7440-62-2	61.1		0.0230	0.104		2
06149	Zinc	7440-66-6	101		0.585	3.13		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0206	J	0.0072	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-086-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA6-SB-4.0-5.0

LLI Sample # SW 6351926
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:40

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0416 SDG#: DE204-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.86	1.1		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.41		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	7.9		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-086-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B112071AA	07/26/2011 13:24	Kerri E Legerlotz	1.03
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112062AA	07/25/2011 16:45	Jason M Long	22.64
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201120224978	07/21/2011 15:45	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201120224978	07/21/2011 15:52	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201120224978	07/21/2011 15:52	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201120224978	07/21/2011 15:46	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11211SLC026	08/15/2011 06:16	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11211SLB026	08/03/2011 18:15	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11211SLB026	07/31/2011 17:00	Wanda F Oswald	1
00381	BNA Soil Sonication	SW-846 3550B	1	11211SLC026	08/01/2011 10:00	Denise L Trimby	1

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Sample Description: SL-086-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA6-SB-4.0-5.0

LLI Sample # SW 6351926
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:40

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0416 SDG#: DE204-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11206A34A	07/25/2011 18:36	Marie D John	23.02
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120224978	07/21/2011 15:46	Larry E Bevins	n.a.
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112130022A	08/03/2011 20:56	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112110006A	08/04/2011 01:09	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112110006A	08/01/2011 03:00	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112130022A	08/02/2011 10:45	Maria Davenport	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112040011A	07/27/2011 06:33	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112030001A	07/22/2011 19:12	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112130013A	08/03/2011 12:44	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112130029A	08/03/2011 03:18	Tracy A Cole	100
11238	EFH Extraction - Soils	SW-846 3550B	1	112130029A	08/02/2011 07:30	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112130013A	08/01/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112040011A	07/26/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112030001A	07/22/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708006	07/31/2011 01:51	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112075708006	07/31/2011 01:51	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112075708006	07/31/2011 01:51	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112075708006	07/31/2011 01:51	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112075708006	07/31/2011 01:51	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112075708006	07/31/2011 01:51	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112075708006	07/31/2011 01:51	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112075708006	07/31/2011 01:51	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112075708006	07/31/2011 01:51	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112075708006	07/31/2011 01:51	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112075708006	07/31/2011 01:51	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112075708006	07/31/2011 01:51	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112075708006	07/31/2011 01:51	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112075708006	07/31/2011 01:51	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112071026002A	07/29/2011 06:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112071026002A	07/29/2011 06:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112071026002D	07/29/2011 06:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112071026002A	07/29/2011 06:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112071026002A	07/29/2011 06:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112071026002A	07/29/2011 06:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112071026002A	07/29/2011 06:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112071026002A	07/29/2011 06:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112071026002A	07/29/2011 06:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112071026002C	07/29/2011 06:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112071026002A	07/29/2011 06:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112071026002B	07/29/2011 06:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112071026002A	07/29/2011 06:55	Choon Y Tian	2

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Analysis Report

Sample Description: SL-086-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA6-SB-4.0-5.0

LLI Sample # SW 6351926
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:40

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0416 SDG#: DE204-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	112071026002A	07/29/2011 06:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112071026002A	07/29/2011 06:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112071026002A	07/29/2011 06:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112075711003	07/27/2011 15:47	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112075708006	07/27/2011 08:41	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112071026002	07/27/2011 09:15	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112075711003	07/27/2011 11:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11210284201B	07/31/2011 19:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209373202B	07/31/2011 09:32	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243202A	08/04/2011 21:47	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11210284201B	07/29/2011 16:00	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209373202B	07/28/2011 18:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039402B	08/01/2011 18:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243202A	08/02/2011 11:15	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	3	11209162401A	07/28/2011 20:37	Scott W Freisher	1

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Analysis Report

Sample Description: SL-086-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA6-SB-9.0-10.0

LLI Sample # SW 6351927
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:50

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0417 SDG#: DE204-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-086-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA6-SB-9.0-10.0

LLI Sample # SW 6351927
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E0417 SDG#: DE204-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	190	U	190	190		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.24
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1

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E0417 SDG#: DE204-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,200		6.78	22.4		1
07914	Boron	7440-42-8	1.37	J	0.404	5.61		1
01650	Calcium	7440-70-2	3,740		2.80	22.4		1
01654	Iron	7439-89-6	20,600		2.93	22.4		1
01656	Lithium	7439-93-2	24.5		0.70	2.2		1
01657	Magnesium	7439-95-4	5,450		0.493	11.2		1
06958	Manganese	7439-96-5	274		0.0404	0.561		1
10145	Phosphorus	7723-14-0	335		0.392	11.2		1
01662	Potassium	7440-09-7	2,430		12.7	56.1		1
01667	Sodium	7440-23-5	123		6.67	112		1
07968	Strontium	7440-24-6	14.4		0.0280	0.561		1
06969	Tin	7440-31-5	2.51	J	0.359	11.2		1
06970	Titanium	7440-32-6	1,120		0.0796	1.12		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-086-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA6-SB-9.0-10.0

LLI Sample # SW 6351927
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E0417 SDG#: DE204-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	2.27 J	0.516	5.61		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0884 J	0.0798	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.62	0.0862	0.431		2
06126	Barium	7440-39-3	145	0.114	0.431		2
06127	Beryllium	7440-41-7	0.938	0.0172	0.108		2
06128	Cadmium	7440-43-9	0.141	0.0474	0.108		2
06131	Chromium	7440-47-3	31.8	0.129	0.431		2
06132	Cobalt	7440-48-4	11.9	0.0216	0.108		2
06133	Copper	7440-50-8	15.2	0.0862	0.431		2
06135	Lead	7439-92-1	8.54	0.0110	0.216		2
06138	Molybdenum	7439-98-7	0.891	0.0539	0.108		2
06139	Nickel	7440-02-0	22.4	0.108	0.431		2
06141	Selenium	7782-49-2	0.152 J	0.0625	0.431		2
06142	Silver	7440-22-4	0.0443 J	0.0153	0.108		2
06145	Thallium	7440-28-0	0.488	0.0323	0.108		2
06148	Vanadium	7440-62-2	64.6	0.0237	0.108		2
06149	Zinc	7440-66-6	88.8	0.604	3.23		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073 U	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.1	0.89	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.35	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-086-SA6-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11211SLC026	08/15/2011 06:41	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11211SLB026	08/03/2011 18:47	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11211SLB026	07/31/2011 17:00	Wanda F Oswald	1
00381	BNA Soil Sonication	SW-846 3550B	1	11211SLC026	08/01/2011 10:00	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11206A34A	07/25/2011 19:13	Marie D John	22.24
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120224978	07/21/2011 15:51	Larry E Bevins	n.a.
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112130022A	08/03/2011 21:03	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112110006A	08/04/2011 01:28	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112110006A	08/01/2011 03:00	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112130022A	08/02/2011 10:45	Maria Davenport	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112040011A	07/27/2011 06:48	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112030001A	07/22/2011 19:25	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112130013A	08/02/2011 22:41	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112130029A	08/02/2011 18:28	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112130029A	08/02/2011 07:30	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112130013A	08/01/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112040011A	07/26/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112030001A	07/22/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708006	07/31/2011 01:55	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112075708006	07/31/2011 01:55	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112075708006	07/31/2011 01:55	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112075708006	07/31/2011 01:55	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112075708006	07/31/2011 01:55	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112075708006	07/31/2011 01:55	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112075708006	07/31/2011 01:55	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112075708006	07/31/2011 01:55	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112075708006	07/31/2011 01:55	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112075708006	07/31/2011 01:55	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112075708006	07/31/2011 01:55	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112075708006	07/31/2011 01:55	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112075708006	07/31/2011 01:55	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112075708006	07/31/2011 01:55	John W Yanzuk II	1

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SL-086-SA6-SB-9.0-10.0

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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:50

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0417 SDG#: DE204-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112071026002A	07/29/2011 06:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112071026002A	07/29/2011 06:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112071026002D	07/29/2011 06:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112071026002A	07/29/2011 06:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112071026002A	07/29/2011 06:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112071026002A	07/29/2011 06:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112071026002A	07/29/2011 06:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112071026002A	07/29/2011 06:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112071026002A	07/29/2011 06:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112071026002C	07/29/2011 06:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112071026002A	07/29/2011 06:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112071026002B	07/29/2011 06:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112071026002A	07/29/2011 06:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112071026002A	07/29/2011 06:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112071026002A	07/29/2011 06:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112071026002A	07/29/2011 06:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112075711003	07/27/2011 15:48	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112075708006	07/27/2011 08:41	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112071026002	07/27/2011 09:15	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112075711003	07/27/2011 11:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11210284201B	07/31/2011 19:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209373202B	07/31/2011 09:55	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243202A	08/04/2011 22:01	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11210284201B	07/29/2011 16:00	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209373202B	07/28/2011 18:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039402B	08/01/2011 18:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243202A	08/02/2011 11:15	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	3	11209162401A	07/28/2011 20:37	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-097-SA6-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA6-SB-1.5-2.5

LLI Sample # SW 6351928
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:05

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0418 SDG#: DE204-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.2	J	7.1	8.5		1
06192	Benzene	71-43-2	0.11	U	0.11	4.3		1
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		1
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		1
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.3		1
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		1
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		1
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		1
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		1
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		1
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		1
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		1
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		1
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		1
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		1
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		1
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		1
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		1
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.3		1
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		1
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		1
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.3		1
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		1
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		1
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		1
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		1
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		1
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		1
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.3		1
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		1
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		1
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		1
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.3		1
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		1
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		1
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		1
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		1
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		1
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		1
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		1
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		1
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		1
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		1
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3		1
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		1
06192	Methylene Chloride	75-09-2	10		0.25	4.3		1
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.3		1

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SSFL Area IV Collocated Soil Sampling
SL-097-SA6-SB-1.5-2.5

LLI Sample # SW 6351928
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:05

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0418 SDG#: DE204-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.3		1
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		1
06192	Toluene	108-88-3	0.14	J	0.08	4.3		1
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		1
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		1
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		1
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		1
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		1
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		1
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		1
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		1
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		1
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		1
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		1
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		24.41
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	287	J	174	349		10

Reporting limits were raised due to interference from the sample matrix.

N-Nitrosodimethylamine was detected in the method blank at a concentration of 168 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank or the re-analysis of the sample. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	75	J	18	180		1
04688	Benzo(a)pyrene	50-32-8	99	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	110	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	100	J	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	68	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1

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SSFL Area IV Collocated Soil Sampling
SL-097-SA6-SB-1.5-2.5

LLI Sample # SW 6351928
LLI Group # 1257475
Account # 13013

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E0418 SDG#: DE204-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Chrysene	218-01-9	78	J	18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	27	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	71	J	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	84	J	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1

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SSFL Area IV Collocated Soil Sampling
SL-097-SA6-SB-1.5-2.5

LLI Sample # SW 6351928
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:05

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E0418 SDG#: DE204-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.46	J	0.35	1.8		1
10138	Anthracene	120-12-7	6.9		0.35	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	J	6.3	19		1
10138	Fluoranthene	206-44-0	76		0.70	1.8		1
10138	Fluorene	86-73-7	0.86	J	0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8		1
10138	Naphthalene	91-20-3	0.77	J	0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	13		0.70	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		24.61
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-097-SA6-SB-1.5-2.5

LLI Sample # SW 6351928
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:05

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0418 SDG#: DE204-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	850	U	850	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	640	U	640	1,600		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.3		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.3	U	5.3	17		5
10225	Aroclor 5442	12642-23-8	5.3	U	5.3	17		5
10225	Aroclor 5460	11126-42-4	200		5.3	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	9.0		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	9.0		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	9.0		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	9.0		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	9.0		5
10225	PCB-1254	11097-69-1	110		1.7	9.0		5
10225	PCB-1260	11096-82-5	2.1	U	2.1	9.0		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	9.0		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	9.0		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1

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Sample Description: SL-097-SA6-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA6-SB-1.5-2.5

LLI Sample # SW 6351928
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:05

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0418 SDG#: DE204-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	11	U	11	32		25
10199	EFH (C15-C20)	n.a.	11	U	11	32		25
10199	EFH (C21-C30)	n.a.	84		11	32		25
10199	EFH (C30 - C40)	n.a.	500		11	32		25
10199	EFH (C8-C11)	n.a.	11	U	11	32		25
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,900		6.17	20.4		1
07914	Boron	7440-42-8	0.916	J	0.367	5.10		1
01650	Calcium	7440-70-2	7,640		2.55	20.4		1
01654	Iron	7439-89-6	24,500		2.66	20.4		1
01656	Lithium	7439-93-2	22.1		0.63	2.0		1
01657	Magnesium	7439-95-4	6,160		0.449	10.2		1
06958	Manganese	7439-96-5	264		0.0367	0.510		1
10145	Phosphorus	7723-14-0	390		0.357	10.2		1
01662	Potassium	7440-09-7	2,100		11.5	51.0		1
01667	Sodium	7440-23-5	335		6.07	102		1
07968	Strontium	7440-24-6	27.1		0.0255	0.510		1
06969	Tin	7440-31-5	2.30	J	0.326	10.2		1
06970	Titanium	7440-32-6	1,100		0.0724	1.02		1
10146	Zirconium	7440-67-7	3.66	J	0.469	5.10		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.136	J	0.0762	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.44		0.0824	0.412		2
06126	Barium	7440-39-3	142		0.109	0.412		2
06127	Beryllium	7440-41-7	0.834		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.266		0.0453	0.103		2
06131	Chromium	7440-47-3	27.8		0.124	0.412		2
06132	Cobalt	7440-48-4	13.1		0.0206	0.103		2
06133	Copper	7440-50-8	24.8		0.0824	0.412		2
06135	Lead	7439-92-1	16.1		0.0105	0.206		2
06138	Molybdenum	7439-98-7	1.56		0.0515	0.103		2
06139	Nickel	7440-02-0	21.0		0.103	0.412		2
06141	Selenium	7782-49-2	0.190	J	0.0597	0.412		2
06142	Silver	7440-22-4	0.0783	J	0.0146	0.103		2
06145	Thallium	7440-28-0	0.344		0.0309	0.103		2
06148	Vanadium	7440-62-2	63.3		0.0227	0.103		2
06149	Zinc	7440-66-6	101		0.577	3.09		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.278		0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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SSFL Area IV Collocated Soil Sampling
SL-097-SA6-SB-1.5-2.5

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LLI Group # 1257475
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E0418 SDG#: DE204-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.77		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.7		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-097-SA6-SB-2.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B112071AA	07/26/2011 13:47	Kerri E Legerlotz	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112062AA	07/25/2011 17:05	Jason M Long	24.41
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201120224978	07/21/2011 15:49	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201120224978	07/21/2011 15:52	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201120224978	07/21/2011 15:52	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201120224978	07/21/2011 15:50	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11207SLC026	08/09/2011 20:44	Matthew S Woods	10

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SSFL Area IV Collocated Soil Sampling
SL-097-SA6-SB-1.5-2.5

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E0418 SDG#: DE204-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11211SLC026	08/15/2011 07:06	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11211SLB026	08/04/2011 09:41	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11207SLC026	07/27/2011 07:35	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11211SLB026	07/31/2011 17:00	Wanda F Oswald	1
00381	BNA Soil Sonication	SW-846 3550B	1	11211SLC026	08/01/2011 10:00	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11206A34A	07/25/2011 14:54	Marie D John	24.61
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120224978	07/21/2011 15:49	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	112070007A	07/28/2011 17:14	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	112070008A	07/28/2011 02:37	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112130022A	08/03/2011 21:09	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112110006A	08/04/2011 01:46	Sarah M Snyder	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112110006A	08/01/2011 03:00	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112130022A	08/02/2011 10:45	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112070008A	07/26/2011 13:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112070007A	07/26/2011 15:15	Kelli M Barto	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112040011A	07/27/2011 07:03	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112030001A	07/22/2011 19:37	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112130013A	08/05/2011 15:31	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112130029A	08/03/2011 13:25	Tracy A Cole	25
11238	EFH Extraction - Soils	SW-846 3550B	1	112130029A	08/02/2011 07:30	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112130013A	08/01/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112040011A	07/26/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112030001A	07/22/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112075708006	07/31/2011 01:59	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112075708006	07/31/2011 01:59	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112075708006	07/31/2011 01:59	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112075708006	07/31/2011 01:59	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112075708006	07/31/2011 01:59	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112075708006	07/31/2011 01:59	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112075708006	07/31/2011 01:59	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112075708006	07/31/2011 01:59	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112075708006	07/31/2011 01:59	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112075708006	07/31/2011 01:59	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112075708006	07/31/2011 01:59	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112075708006	07/31/2011 01:59	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112075708006	07/31/2011 01:59	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112075708006	07/31/2011 01:59	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112071026002A	07/29/2011 07:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112071026002A	07/29/2011 07:01	Choon Y Tian	2

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Sample Description: SL-097-SA6-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA6-SB-1.5-2.5

LLI Sample # SW 6351928
LLI Group # 1257475
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E0418 SDG#: DE204-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112071026002D	07/29/2011 07:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112071026002A	07/29/2011 07:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112071026002A	07/29/2011 07:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112071026002A	07/29/2011 07:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112071026002A	07/29/2011 07:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112071026002A	07/29/2011 07:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112071026002A	07/29/2011 07:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112071026002C	07/29/2011 07:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112071026002A	07/29/2011 07:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112071026002B	07/29/2011 07:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112071026002A	07/29/2011 07:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112071026002A	07/29/2011 07:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112071026002A	07/29/2011 07:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112071026002A	07/29/2011 07:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112075711003	07/27/2011 15:49	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112075708006	07/27/2011 08:41	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112071026002	07/27/2011 09:15	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112075711003	07/27/2011 11:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11210284201B	07/31/2011 14:13	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11210284201B	07/31/2011 14:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209373202B	07/31/2011 10:18	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11214243202A	08/04/2011 22:16	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11215102201A	08/03/2011 18:28	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11210284201B	07/29/2011 16:00	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209373202B	07/28/2011 18:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11215102201A	08/03/2011 09:10	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11213039402B	08/01/2011 18:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11214243202A	08/02/2011 11:15	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401B	08/02/2011 18:22	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-072011 Water
SSFL Area IV Collocated Soil Sampling
TB-072011

LLI Sample # WW 6351929
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0419 SDG#: DE204-19TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-072011 Water
SSFL Area IV Collocated Soil Sampling
TB-072011

LLI Sample # WW 6351929
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0419 SDG#: DE204-19TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y112062AA	07/25/2011 21:55	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112061AA	07/25/2011 10:29	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E112061AA	07/25/2011 10:29	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y112062AA	07/25/2011 21:55	Frank A Valla, Jr	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11206C20A	07/25/2011 23:26	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11206C20A	07/25/2011 23:26	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: EB-SA6-SB-072011 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-072011

LLI Sample # WW 6351930
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 12:00

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0420 SDG#: DE204-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB-SA6-SB-072011 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-072011

LLI Sample # WW 6351930
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 12:00

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0420 SDG#: DE204-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	6.29		0.521	1.04		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 2.04 ng/l. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was again detected in the method blank at 1.64 ng/l. N-Nitrosodimethylamine was also detected in the re-analysis of the sample at 3.44 ng/l. The data reported here is from the initial extraction of the sample.

The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.

The internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	21	U	21	62		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: EB-SA6-SB-072011 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-072011

LLI Sample # WW 6351930
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 12:00

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0420 SDG#: DE204-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	31		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	31		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	Tetralin	119-64-2	5	U	5	5		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB-SA6-SB-072011 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-072011

LLI Sample # WW 6351930
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 12:00

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0420 SDG#: DE204-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.054		1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.054		1
10137	Anthracene	120-12-7	0.011	U	0.011	0.054		1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.054		1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.054		1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.054		1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.054		1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.054		1
10137	Butylbenzylphthalate	85-68-7	0.18	J	0.054	1.1		1
10137	Di-n-butylphthalate	84-74-2	0.22	J	0.054	1.1		1
10137	Chrysene	218-01-9	0.011	U	0.011	0.054		1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.054		1
10137	Diethylphthalate	84-66-2	0.054	U	0.054	1.1		1
10137	Dimethylphthalate	131-11-3	0.054	U	0.054	1.1		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.27	J	0.054	1.1		1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.054		1
10137	Fluorene	86-73-7	0.011	U	0.011	0.054		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.054		1
10137	1-Methylnaphthalene	90-12-0	0.011	U	0.011	0.054		1
10137	2-Methylnaphthalene	91-57-6	0.011	U	0.011	0.054		1
10137	Naphthalene	91-20-3	0.046	J	0.033	0.054		1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.054		1
10137	Di-n-octylphthalate	117-84-0	0.33	J	0.054	1.1		1
10137	Phenanthrene	85-01-8	0.033	U	0.033	0.054		1
10137	Pyrene	129-00-0	0.011	U	0.011	0.054		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate .14 ug/l
di-n-octylphthalate .28 ug/l
These blank values were not subtracted from the analytical results.

Reporting limits were raised due to limited sample volume.

GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1

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Sample Description: EB-SA6-SB-072011 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-072011

LLI Sample # WW 6351930
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 12:00

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0420 SDG#: DE204-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/l		ug/l	ug/l	ug/l	
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	1.0		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
HPLC Organics	**SW-846 8315A**		ug/l		ug/l	ug/l	ug/l	
04144	25b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.50		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.50		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.50		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.50		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.50		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.50		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.50		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.50		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.50		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.50		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.50		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.50		1
GC Miscellaneous	**SW-846 8015B**		ug/l		ug/l	ug/l	ug/l	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1

The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.

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Sample Description: EB-SA6-SB-072011 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-072011

LLI Sample # WW 6351930
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 12:00

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0420 SDG#: DE204-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	20	U	20	200		1
08278	Ethylene glycol	107-21-1	20	U	20	200		1
08278	Propylene glycol	57-55-6	20	U	20	200		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.076	U	0.076	0.24		1
10319	o-Terphenyl	84-15-1	0.076	U	0.076	0.24		1
10319	p-Terphenyl	92-94-4	0.076	U	0.076	0.24		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.099	U	0.099	0.60		1
10365	EFH (C15-C20)	n.a.	0.099	U	0.099	0.60		1
10365	EFH (C21-C30)	n.a.	0.099	U	0.099	0.60		1
10365	EFH (C30 - C40)	n.a.	0.099	U	0.099	0.60		1
10365	EFH (C8-C11)	n.a.	0.099	U	0.099	0.60		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0801	U	0.0801	0.200		1
08014	Boron	7440-42-8	0.0026	J	0.0022	0.0500		1
01750	Calcium	7440-70-2	0.0705	U	0.0705	0.200		1
01754	Iron	7439-89-6	0.0141	U	0.0141	0.200		1
01756	Lithium	7439-93-2	0.0076	U	0.0076	0.0200		1
01757	Magnesium	7439-95-4	0.0067	U	0.0067	0.100		1
07058	Manganese	7439-96-5	0.00044	U	0.00044	0.0050		1
10143	Phosphorus	7723-14-0	0.0047	U	0.0047	0.100		1
01762	Potassium	7440-09-7	0.0874	U	0.0874	0.500		1
01767	Sodium	7440-23-5	0.0647	U	0.0647	1.00		1
08068	Strontium	7440-24-6	0.00022	U	0.00022	0.0050		1
07069	Tin	7440-31-5	0.0043	U	0.0043	0.0200		1
07070	Titanium	7440-32-6	0.00046	U	0.00046	0.0100		1
10144	Zirconium	7440-67-7	0.0042	U	0.0042	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00042	U	0.00042	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00069	U	0.00069	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000080	U	0.000080	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1

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Sample Description: EB-SA6-SB-072011 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-072011

LLI Sample # WW 6351930
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 12:00

Submitted: 07/21/2011 09:15
Reported: 09/08/2011 14:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0420 SDG#: DE204-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06041	Selenium	7782-49-2	0.00027 U	0.00027	0.0020		1
06042	Silver	7440-22-4	0.000098 U	0.000098	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00018 U	0.00018	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000026 U	0.000026	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	17b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.5	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y112062AA	07/25/2011 22:16	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112061AA	07/25/2011 10:49	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E112061AA	07/25/2011 10:49	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y112062AA	07/25/2011 22:16	Frank A Valla, Jr	1
10962	15b NDMA by 1625C	EPA 1625C	1	11207WAA026	08/09/2011 16:13	Matthew S Woods	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11204WAC026	08/15/2011 21:26	Ryan P Byrne	1

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Sample Description: **EB-SA6-SB-072011 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-072011

LLI Sample # WW 6351930
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 12:00

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0420 SDG#: DE204-20EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11206WAC026	07/30/2011 11:13	Brian K Graham	1
00813	BNA Water Extraction	SW-846 3510C	1	11204WAC026	07/24/2011 20:30	Nicholas W Shroyer	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11206WAC026	07/25/2011 18:15	Nicholas W Shroyer	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11207WAA026	07/26/2011 14:55	Wanda F Oswald	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11206C20A	07/25/2011 23:47	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11206C20A	07/25/2011 23:47	Laura M Krieger	1
10131	16b Energetics by 8330A	SW-846 8330A	1	112070006A	07/28/2011 23:36	James H Place	1
04144	25b Formaldehyde 8315A	SW-846 8315A	1	112020043A	07/25/2011 17:17	James H Place	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	112070015A	07/29/2011 05:22	Sarah M Snyder	1
11117	PCB Waters Extraction	SW-846 3510C	1	112070015A	07/26/2011 15:30	JoElla L Rice	1
01013	Formaldehyde Extraction	SW-846 8315A	1	112020043A	07/23/2011 07:15	Kelli M Barto	1
11122	Energetics Extraction	SW-846 8330	1	112070006A	07/26/2011 17:15	Kelli M Barto	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	112090041A	07/29/2011 05:35	Tracy A Cole	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	112020001A	07/22/2011 13:36	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	112020037A	07/28/2011 18:15	Heather E Williams	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112020035A	07/23/2011 19:33	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	112020035A	07/22/2011 16:45	JoElla L Rice	1
10304	Terphenyls water prep	SW-846 3510C	1	112020037A	07/22/2011 20:30	Kathryn I DeHaven	1
01743	Aluminum	SW-846 6010B	1	112081848001	07/28/2011 18:53	John P Hook	1
08014	Boron	SW-846 6010B	1	112081848001	07/28/2011 18:53	John P Hook	1
01750	Calcium	SW-846 6010B	1	112081848001	07/28/2011 18:53	John P Hook	1
01754	Iron	SW-846 6010B	1	112081848001	07/28/2011 18:53	John P Hook	1
01756	Lithium	SW-846 6010B	1	112081848001	07/28/2011 18:53	John P Hook	1
01757	Magnesium	SW-846 6010B	1	112081848001	07/28/2011 18:53	John P Hook	1
07058	Manganese	SW-846 6010B	1	112081848001	07/28/2011 18:53	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	112081848001	07/28/2011 18:53	John P Hook	1
01762	Potassium	SW-846 6010B	1	112081848001	07/28/2011 18:53	John P Hook	1
01767	Sodium	SW-846 6010B	1	112081848001	07/28/2011 18:53	John P Hook	1
08068	Strontium	SW-846 6010B	1	112081848001	07/28/2011 18:53	John P Hook	1
07069	Tin	SW-846 6010B	1	112081848001	07/28/2011 18:53	John P Hook	1
07070	Titanium	SW-846 6010B	1	112081848001	07/28/2011 18:53	John P Hook	1
10144	Zirconium	SW-846 6010B	1	112081848001	07/28/2011 18:53	John P Hook	1
06024	Antimony	SW-846 6020	1	112086050002A	07/28/2011 19:18	David K Beck	1
06025	Arsenic	SW-846 6020	1	112086050002A	07/28/2011 19:18	David K Beck	1
06026	Barium	SW-846 6020	1	112086050002D	07/28/2011 19:18	David K Beck	1
06027	Beryllium	SW-846 6020	1	112086050002A	07/28/2011 19:18	David K Beck	1
06028	Cadmium	SW-846 6020	1	112086050002A	07/28/2011 19:18	David K Beck	1
06031	Chromium	SW-846 6020	1	112086050002A	07/28/2011 19:18	David K Beck	1
06032	Cobalt	SW-846 6020	1	112086050002A	07/28/2011 19:18	David K Beck	1
06033	Copper	SW-846 6020	1	112086050002A	07/28/2011 19:18	David K Beck	1
06035	Lead	SW-846 6020	1	112086050002A	07/28/2011 19:18	David K Beck	1
06038	Molybdenum	SW-846 6020	1	112086050002C	07/28/2011 19:18	David K Beck	1
06039	Nickel	SW-846 6020	1	112086050002A	07/28/2011 19:18	David K Beck	1

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Sample Description: **EB-SA6-SB-072011 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-072011

LLI Sample # WW 6351930
LLI Group # 1257475
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 12:00

Submitted: 07/21/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0420 SDG#: DE204-20EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06041	Selenium	SW-846 6020	1	112086050002B	07/28/2011 19:18	David K Beck	1
06042	Silver	SW-846 6020	1	112086050002A	07/28/2011 19:18	David K Beck	1
06045	Thallium	SW-846 6020	1	112086050002A	07/28/2011 19:18	David K Beck	1
06048	Vanadium	SW-846 6020	1	112086050002A	07/28/2011 19:18	David K Beck	1
06049	Zinc	SW-846 6020	1	112086050002A	07/28/2011 19:18	David K Beck	1
00259	Mercury	SW-846 7470A	1	112025713003	07/21/2011 20:09	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	112081848001	07/28/2011 09:34	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	112086050002	07/28/2011 10:23	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	112025713003	07/21/2011 14:45	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11202196901B	07/21/2011 18:28	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11202196901B	07/21/2011 18:28	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11209281101B	07/28/2011 17:34	Elyse P Brunstetter	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11202281401B	07/21/2011 10:01	Elyse P Brunstetter	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11207117101A	07/27/2011 08:47	K Robert Caulfeild-James	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11207117101A	07/26/2011 20:15	Alex M Rittle	1
00200	18b pH by 9040B	SW-846 9040B	1	11203020001A	07/22/2011 20:20	Luz M Groff	1

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257475
Reported: 09/08/11 at 02:22 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B112071AA	Sample number(s): 6351926,6351928									
Acetone	6.7	U	6.7	8.0	ug/kg	111	105	32-209	6	30
Benzene	0.10	U	0.10	4.0	ug/kg	110	109	80-120	1	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	94	95	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	105	105	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	103	103	78-120	0	30
Bromoform	0.40	U	0.40	4.0	ug/kg	95	94	70-120	2	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	85	85	32-162	0	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	111	105	46-153	5	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	103	101	72-120	2	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	100	100	75-120	0	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	96	97	75-120	1	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	109	107	69-122	2	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100	100	80-120	0	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	80	82	37-154	1	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	112	112	43-146	1	30
Chloroform	0.12	U	0.12	4.0	ug/kg	108	106	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	105	106	54-132	0	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	96	96	78-120	0	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	98	97	79-120	1	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	97	94	22-131	4	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	101	95	58-120	6	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	96	96	77-120	0	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	102	100	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	108	106	80-120	2	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	98	98	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	95	96	78-120	0	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	95	95	79-120	0	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	111	107	20-120	3	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	110	110	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	108	107	71-129	1	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	124*	124*	73-123	1	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	108	107	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	109	107	79-120	2	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	106	106	80-120	0	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	102	102	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	109	107	72-123	2	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	111	110	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	102	103	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	95	98	77-120	2	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	101	100	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	140*	134*	61-126	4	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	120	118	78-120	2	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	100	98	57-120	2	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	110	103	45-155	6	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	100	100	76-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257475
Reported: 09/08/11 at 02:22 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	99	99	75-120	0	30
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	108	107	74-121	1	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	124	122	61-134	2	30
Methylene Chloride	1.7	J	0.24	4.0	ug/kg	114	113	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	102	101	77-120	0	30
Styrene	0.10	U	0.10	4.0	ug/kg	102	100	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	97	96	80-120	1	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	98	96	71-123	2	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	99	99	77-120	1	30
Toluene	0.08	U	0.08	4.0	ug/kg	100	100	80-120	0	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	96	95	64-120	1	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	95	95	68-120	0	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	109	106	71-125	3	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	102	102	80-120	0	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	107	106	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	109	106	58-133	3	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	102	97	71-123	5	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	99	98	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	98	99	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	105	104	53-120	1	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	103	102	80-120	0	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	100	99	80-120	0	30
Batch number: E112061AA	Sample number(s): 6351929-6351930									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	112	118	80-123	5	30
Batch number: E112062AA	Sample number(s): 6351926,6351928									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	99	96	70-130	3	30
Batch number: Y112062AA	Sample number(s): 6351929-6351930									
Acetone	6	U	6.	20	ug/l	82	81	49-234	0	30
Benzene	0.5	U	0.5	5	ug/l	101	102	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	115	118	80-120	2	30
Bromochloromethane	1	U	1.	5	ug/l	114	116	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	99	100	80-120	1	30
Bromoform	1	U	1.	5	ug/l	103	103	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	76	78	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	80	82	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	96	97	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	99	101	78-120	2	30
tert-Butylbenzene	1	U	1.	5	ug/l	106	107	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	100	99	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	105	107	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	78	82	49-129	5	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	101	106	56-129	5	30
Chloroform	0.8	U	0.8	5	ug/l	100	101	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	77	80	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	112	113	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	111	113	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	80	77	38-136	4	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	94	94	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	99	102	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	99	101	80-120	2	30
Dibromomethane	1	U	1.	5	ug/l	100	101	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	105	104	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	115	116	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	110	112	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	71	72	47-120	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257475
Reported: 09/08/11 at 02:22 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1-Dichloroethane	1	U	1.	5	ug/l	103	103	79-120	1	30
1,2-Dichloroethane	1	U	1.	5	ug/l	103	103	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	90	92	74-123	3	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	104	106	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	103	105	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	98	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	96	98	80-120	2	30
2,2-Dichloropropane	1	U	1.	5	ug/l	96	99	77-124	3	30
1,1-Dichloropropene	1	U	1.	5	ug/l	104	106	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	104	106	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	91	95	79-120	5	30
Ethylbenzene	0.8	U	0.8	5	ug/l	95	98	79-120	3	30
Freon 113	2	U	2.	10	ug/l	91	92	69-128	1	30
Freon 133a	2	U	2.	5	ug/l	80	78	77-120	3	30
Hexachlorobutadiene	2	U	2.	5	ug/l	98	103	58-120	6	30
2-Hexanone	3	U	3.	10	ug/l	74	76	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	101	103	77-120	2	30
p-Isopropyltoluene	1	U	1.	5	ug/l	106	107	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	97	99	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	81	82	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	99	100	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	96	97	80-120	2	30
Styrene	1	U	1.	5	ug/l	97	98	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	104	105	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	92	94	71-120	2	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	110	111	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	96	100	79-120	4	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	112	116	65-120	3	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	106	109	67-120	3	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	98	101	75-127	3	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	96	98	80-120	2	30
Trichloroethene	1	U	1.	5	ug/l	104	104	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	74	75	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	99	101	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	105	106	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	103	106	75-120	3	30
Vinyl Chloride	1	U	1.	5	ug/l	80	83	65-125	4	30
m+p-Xylene	0.8	U	0.8	5	ug/l	99	101	80-120	3	30
o-Xylene	0.8	U	0.8	5	ug/l	96	99	80-120	3	30
Batch number: 11204WAC026	Sample number(s): 6351930									
Aniline	1	U	1.	5	ug/l	79	85	38-116	7	30
Benzidine	20	U	20.	60	ug/l	80	93	34-117	14	30
Benzoic acid	6	U	6.	15	ug/l	27	29	10-69	8	30
Benzyl alcohol	5	U	5.	15	ug/l	70	70	66-97	0	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	105	111	75-115	6	30
Carbazole	1	U	1.	5	ug/l	106	106	75-120	0	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	95	96	70-123	1	30
4-Chloroaniline	1	U	1.	5	ug/l	75	89	24-128	18	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	103	104	74-124	1	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	100	102	77-108	2	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	98	100	62-127	2	30
2-Chloronaphthalene	2	U	2.	5	ug/l	100	98	54-132	2	30
2-Chlorophenol	1	U	1.	5	ug/l	90	93	71-114	3	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	105	101	77-114	4	30
Dibenzofuran	1	U	1.	5	ug/l	103	100	75-117	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	98	55-118	4	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	97	99	61-111	3	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257475
Reported: 09/08/11 at 02:22 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,4-Dichlorobenzene	1	U	1.	5	ug/l	96	99	53-119	2	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	66	88	37-117	28	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	99	101	77-117	1	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	94	97	72-110	3	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	94	95	70-130	1	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	100	101	65-126	1	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	99	98	52-131	1	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	109	105	76-119	4	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	112	109	76-118	3	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	106	109	68-127	2	30
Hexachlorobenzene	1	U	1.	5	ug/l	109	113	75-119	3	30
Hexachlorobutadiene	1	U	1.	5	ug/l	101	102	57-124	1	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	93	89	36-118	4	30
Hexachloroethane	1	U	1.	5	ug/l	96	96	52-113	1	30
Isophorone	1	U	1.	5	ug/l	103	104	74-117	1	30
2-Methylphenol	1	U	1.	5	ug/l	77	80	58-110	3	30
4-Methylphenol	2	U	2.	5	ug/l	71	74	49-108	4	30
2-Nitroaniline	1	U	1.	5	ug/l	107	108	75-120	1	30
3-Nitroaniline	1	U	1.	5	ug/l	102	100	74-113	2	30
4-Nitroaniline	1	U	1.	5	ug/l	84	87	59-100	3	30
Nitrobenzene	1	U	1.	5	ug/l	104	104	75-109	0	30
2-Nitrophenol	1	U	1.	5	ug/l	102	102	76-118	0	30
4-Nitrophenol	10	U	10.	30	ug/l	35	34	16-78	3	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	97	98	69-110	1	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	102	103	67-136	1	30
Pentachlorophenol	3	U	3.	15	ug/l	102	107	53-110	5	30
Phenol	1	U	1.	5	ug/l	37	38	21-67	3	30
Tetralin	5	U	5.	5	ug/l	74	24*	70-130	103*	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	100	99	71-112	0	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	107	103	79-107	3	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	103	101	76-120	2	30
Batch number: 11206WAC026	Sample number(s): 6351930									
Acenaphthene	0.010	U	0.010	0.050	ug/l	99	99	74-109	0	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	95	95	70-110	0	30
Anthracene	0.010	U	0.010	0.050	ug/l	98	97	66-111	1	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	94	97	72-114	3	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	97	99	60-127	2	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	102	102	69-123	0	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	90	91	57-131	0	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	101	105	59-130	4	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	69	70	40-138	1	30
Di-n-butylphthalate	0.14	J	0.050	1.0	ug/l	95	95	74-131	0	30
Chrysene	0.010	U	0.010	0.050	ug/l	99	99	76-116	0	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	96	96	55-134	0	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	97	98	57-134	2	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	61	62	40-119	1	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	97	95	57-154	2	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	101	101	75-116	0	30
Fluorene	0.010	U	0.010	0.050	ug/l	106	106	75-114	1	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	94	94	69-124	1	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	93	92	71-117	2	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	92	92	75-115	0	30
Naphthalene	0.030	U	0.030	0.050	ug/l	94	92	72-109	2	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	69	70	36-89	1	30
Di-n-octylphthalate	0.28	J	0.050	1.0	ug/l	112	111	57-145	1	30
Phenanthrene	0.030	U	0.030	0.050	ug/l	97	98	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	95	97	69-118	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257475
Reported: 09/08/11 at 02:22 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11207SLC026	Sample number(s): 6351919,6351928									
N-Nitrosodimethylamine	168		16.7	33.3	ng/kg	106		70-130		
Batch number: 11207WAA026	Sample number(s): 6351930									
N-Nitrosodimethylamine	2.04		0.500	1.00	ng/l	99	97	70-130	2	30
Batch number: 11211SLB026	Sample number(s): 6351908-6351913,6351915-6351928									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	97		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	100		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	109		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	104		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	85		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	93		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	91		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	83		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	118		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	116		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	104		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	92		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	118		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	111		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	126		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	108		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	107		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	92		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	96		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	95		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	98		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	101		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	102		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	112		72-119		
Batch number: 11211SLC026	Sample number(s): 6351908-6351913,6351915-6351928									
Acenaphthene	17	U	17.	170	ug/kg	102		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	110		75-122		
Aniline	170 U		170.	500	ug/kg	74		20-115		
Anthracene	17	U	17.	170	ug/kg	109		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	35		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	96		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	106		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	97		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	96		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	113		67-125		
Benzoic acid	170 U		170.	500	ug/kg	113		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	105		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	93		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	109		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	108		79-112		
Carbazole	17	U	17.	170	ug/kg	107		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	102		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	30		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	105		70-118		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257475
Reported: 09/08/11 at 02:22 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	99		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	117*		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	84		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	108		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		74-115		
Chrysene	17	U	17.	170	ug/kg	98		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	100		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	99		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	94		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	94		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	95		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	46		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	107		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	104		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	103		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	107		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	104		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	84		46-120		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	86		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	104		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	103		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	108		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	109		75-117		
Fluoranthene	17	U	17.	170	ug/kg	105		78-116		
Fluorene	17	U	17.	170	ug/kg	106		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	89		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	83		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	77		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	92		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	98		64-119		
Isophorone	17	U	17.	170	ug/kg	100		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	98		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	101		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	110		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	101		66-117		
Naphthalene	17	U	17.	170	ug/kg	98		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	111		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	100		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	83		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	97		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	100		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	88		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	97		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	110*		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	111		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	131		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	81		51-117		
Phenanthrene	17	U	17.	170	ug/kg	106		77-113		
Phenol	17	U	17.	170	ug/kg	111		58-112		
Pyrene	17	U	17.	170	ug/kg	107		75-115		
Tetralin	170	U	170.	170	ug/kg	137*		70-130		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257475
Reported: 09/08/11 at 02:22 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	101		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	100		78-111		
Batch number: 11206A34A	Sample number(s): 6351926-6351928									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	73	71	67-119	3	30
Batch number: 11206C20A	Sample number(s): 6351929-6351930									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	91	100	75-135	10	30
Batch number: 112070006A	Sample number(s): 6351930									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	110	110	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	103	103	50-122	0	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	103	103	50-122	0	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	110	110	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	99	99	80-120	0	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	110	110	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	100	110	65-125	10	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	99	99	75-121	0	30
Nitroglycerin	5.2	U	5.2	15	ug/l	108	108	80-120	0	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	74-120	0	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	110*	110*	69-107	0	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	100	100	80-120	0	30
PETN	6.0	U	6.0	18	ug/l	129*	129*	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	90	91	70-125	1	30
Tetryl	0.40	U	0.40	0.60	ug/l	82	90	72-141	9	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	89	94	53-129	5	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	76-109	0	30
Batch number: 112070007A	Sample number(s): 6351919,6351928									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	111		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	111		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	98	100	54-134	3	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	97	100	54-134	3	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	115		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	106		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
HMX	100 U		100.	300	ug/kg	96		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	110		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	85		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	108		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	116		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	106		80-120		
PETN	800 U		800.	2,400	ug/kg	99		80-120		
RDX	50	U	50.	120	ug/kg	97		75-131		
Tetryl	61	U	61.	120	ug/kg	95		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	108		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
Batch number: 112020043A	Sample number(s): 6351930									
25b Formaldehyde 8315A	10	U	10.	50	ug/l	98	98	69-130	0	30
Batch number: 112070008A	Sample number(s): 6351919,6351928									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257475
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	90		80-126		
Batch number: 112130010A	Sample number(s): 6351908-6351913,6351915-6351925									
2,4-D	1.2	U	1.2	3.6	ug/kg	92		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	61		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	86		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	116		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	4*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	132		62-170		
MCPA	76	U	76.	250	ug/kg	65		60-130		
MCPP (Mecoprop)	150 J		75.	250	ug/kg	96		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	89		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	82		68-114		
Batch number: 112130022A	Sample number(s): 6351908,6351926-6351928									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	114		85-115		
Batch number: 112070015A	Sample number(s): 6351930									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	66	54	35-84	20	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	102	96	51-128	6	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	118	114	56-135	3	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 112110006A	Sample number(s): 6351908-6351913,6351915-6351928									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	74	75	36-106	1	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	84		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	94		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112110009A	Sample number(s): 6351908-6351913,6351915-6351925									
Aldrin	0.066	U	0.066	0.17	ug/kg	88		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	74		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	88		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	76		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	91		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	97		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	92		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	88		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	93		65-129		

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Endosulfan I	0.044	U	0.044	0.17	ug/kg	74		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	91		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	105		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	94		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	89		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	98		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	79		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	100		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	98		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112020001A	Sample number(s): 6351930									
Diethylene glycol	20	U	20.	200	mg/l	105	120	78-126	13	20
Ethylene glycol	20	U	20.	200	mg/l	89	116	80-124	26*	20
Propylene glycol	20	U	20.	200	mg/l	90	110	80-120	20	20
Batch number: 112030001A	Sample number(s): 6351908-6351913,6351915-6351919,6351923-6351928									
Diethylene glycol	5.0	U	5.0	10	mg/kg	94		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	92		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	87		75-125		
Batch number: 112040011A	Sample number(s): 6351908-6351913,6351915-6351919,6351923-6351928									
Ethanol	100 U		100.	500	ug/kg	93		71-129		
Isopropanol	100 U		100.	500	ug/kg	89		75-125		
Methanol	100 U		100.	500	ug/kg	90		68-129		
Batch number: 112090041A	Sample number(s): 6351930									
Ethanol	200 U		200.	1,000	ug/l	108		66-132		
Isopropanol	200 U		200.	1,000	ug/l	100		75-125		
Methanol	200 U		200.	1,000	ug/l	104		71-140		
Batch number: 112020035A	Sample number(s): 6351930									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	88	88	69-125	0	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	96	99	77-125	3	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	92	100	68-124	8	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	107	113	80-121	6	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	76	74	46-103	3	30
Batch number: 112020037A	Sample number(s): 6351930									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	84	86	75-125	2	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	100	110	75-125	10	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	97	100	75-125	3	20
Batch number: 112130013A	Sample number(s): 6351908-6351913,6351915-6351919,6351923-6351928									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	85		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	101		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
Batch number: 112130029A	Sample number(s): 6351908-6351913,6351915-6351919,6351923-6351928									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	93		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	100		76-122		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257475
Reported: 09/08/11 at 02:22 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	100		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	74		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	106		54-107		
Batch number: 112025713003	Sample number(s): 6351930									
Mercury	0.000026		0.00002	0.00020	mg/l	96	102	80-120	6	20
	U		6							
Batch number: 112071026002A	Sample number(s): 6351908-6351928									
Antimony	0.0725	U	0.0725	0.196	mg/kg	58		40-224		
Arsenic	0.0784	U	0.0784	0.392	mg/kg	102		78-122		
Beryllium	0.0157	U	0.0157	0.0980	mg/kg	102		80-120		
Cadmium	0.0431	U	0.0431	0.0980	mg/kg	100		81-119		
Chromium	0.118	U	0.118	0.392	mg/kg	110		77-123		
Cobalt	0.0196	U	0.0196	0.0980	mg/kg	96		80-119		
Copper	0.268	J	0.0784	0.392	mg/kg	100		78-122		
Lead	0.0211	J	0.0100	0.196	mg/kg	101		77-123		
Nickel	0.0980	U	0.0980	0.392	mg/kg	105		80-120		
Silver	0.0139	U	0.0139	0.0980	mg/kg	98		66-134		
Thallium	0.0294	U	0.0294	0.0980	mg/kg	104		75-124		
Vanadium	0.0277	J	0.0216	0.0980	mg/kg	110		76-124		
Zinc	0.549	U	0.549	2.94	mg/kg	101		79-121		
Batch number: 112071026002B	Sample number(s): 6351908-6351928									
Selenium	0.0569	U	0.0569	0.392	mg/kg	107		77-123		
Batch number: 112071026002C	Sample number(s): 6351908-6351928									
Molybdenum	0.0490	U	0.0490	0.0980	mg/kg	103		76-123		
Batch number: 112071026002D	Sample number(s): 6351908-6351928									
Barium	0.104	U	0.104	0.392	mg/kg	101		80-120		
Batch number: 112075708006	Sample number(s): 6351908-6351928									
Aluminum	5.99	U	5.99	19.8	mg/kg	140		42-158		
Boron	0.619	J	0.356	4.95	mg/kg	104		66-134		
Calcium	7.77	J	2.48	19.8	mg/kg	106		79-121		
Iron	3.95	J	2.58	19.8	mg/kg	122		51-149		
Lithium	0.61	U	0.61	2.0	mg/kg	98		80-120		
Magnesium	0.951	J	0.436	9.90	mg/kg	119		64-136		
Manganese	0.0396	J	0.0356	0.495	mg/kg	97		78-122		
Phosphorus	1.25	J	0.347	9.90	mg/kg	102		80-120		
Potassium	11.2	U	11.2	49.5	mg/kg	113		69-131		
Sodium	5.89	U	5.89	99.0	mg/kg	108		71-129		
Strontium	0.0356	J	0.0248	0.495	mg/kg	100		81-119		
Tin	1.48	J	0.317	9.90	mg/kg	94		74-126		
Titanium	0.0703	U	0.0703	0.990	mg/kg	163		40-186		
Zirconium	0.681	J	0.455	4.95	mg/kg	102		80-120		
Batch number: 112075711003	Sample number(s): 6351908-6351928									
Mercury	0.0066	U	0.0066	0.0936	mg/kg	104		72-128		
Batch number: 112081848001	Sample number(s): 6351930									
Aluminum	0.0801	U	0.0801	0.200	mg/l	98	96	90-112	1	20
Boron	0.0029	J	0.0022	0.0500	mg/l	97	98	89-110	1	20
Calcium	0.0705	U	0.0705	0.200	mg/l	103	105	90-112	2	20
Iron	0.0141	U	0.0141	0.200	mg/l	102	103	90-112	1	20
Lithium	0.0076	U	0.0076	0.0200	mg/l	100	98	80-120	1	20
Magnesium	0.0067	U	0.0067	0.100	mg/l	101	101	89-110	1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257475
Reported: 09/08/11 at 02:22 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Manganese	0.00044 U	0.00044	0.0050	mg/l	102	103	90-110	1	20
Phosphorus	0.0047 U	0.0047	0.100	mg/l	101	101	80-120	0	20
Potassium	0.0874 U	0.0874	0.500	mg/l	101	101	85-115	0	20
Sodium	0.0647 U	0.0647	1.00	mg/l	95	95	87-114	0	20
Strontium	0.00029 J	0.00022	0.0050	mg/l	103	103	90-110	0	20
Tin	0.0043 U	0.0043	0.0200	mg/l	100	99	90-110	0	20
Titanium	0.00046 U	0.00046	0.0100	mg/l	101	101	90-113	0	20
Zirconium	0.0059 J	0.0042	0.0500	mg/l	103	102	80-120	0	20
Batch number: 112086050002A	Sample number(s): 6351930								
Antimony	0.00042 U	0.00042	0.0010	mg/l	103	107	87-110	4	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	108	103	86-111	4	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	104	104	90-113	0	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	104	102	90-114	2	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	103	103	90-118	0	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	101	98	87-113	2	20
Copper	0.00038 U	0.00038	0.0020	mg/l	103	101	90-113	1	20
Lead	0.000080 U	0.00008 0	0.0010	mg/l	99	101	90-115	2	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	106	104	90-113	2	20
Silver	0.000098 U	0.00009 8	0.00050	mg/l	103	102	90-115	1	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	108	99	89-116	8	20
Vanadium	0.00018 U	0.00018	0.00050	mg/l	102	103	89-116	1	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	105	100	90-116	5	20
Batch number: 112086050002B	Sample number(s): 6351930								
Selenium	0.00027 U	0.00027	0.0020	mg/l	105	105	85-114	0	20
Batch number: 112086050002C	Sample number(s): 6351930								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	102	101	89-115	2	20
Batch number: 112086050002D	Sample number(s): 6351930								
Barium	0.00069 U	0.00069	0.0020	mg/l	102	102	88-113	0	20
Batch number: 11202196901B	Sample number(s): 6351930								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	108	105	90-110	3	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	105	104	90-110	2	20
Batch number: 11202281401B	Sample number(s): 6351930								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	100	103	90-110	2	20
Batch number: 11207117101A	Sample number(s): 6351930								
17b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	102	97	90-110	5	20
Batch number: 11209281101B	Sample number(s): 6351930								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	98	95	85-115	3	20
Batch number: 11209373202A	Sample number(s): 6351908-6351912,6351914-6351920								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	94		85-115		
Batch number: 11209373202B	Sample number(s): 6351921-6351928								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	94		85-115		
Batch number: 11210284201A	Sample number(s): 6351908-6351912,6351914-6351920								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	110		90-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257475
Reported: 09/08/11 at 02:22 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11210284201B	Sample number(s): 6351921-6351928									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	110		90-110		
Batch number: 11214243202A	Sample number(s): 6351908-6351912,6351914-6351928									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	81		80-120		
Batch number: 11215102201A	Sample number(s): 6351919,6351928									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	101		80-120		
Batch number: 11203020001A	Sample number(s): 6351930									
18b pH by 9040B						100	100	90-110	0	3
Batch number: 11213039401B	Sample number(s): 6351908-6351911,6351914-6351915									
18a pH by 9045C						100		95-105		
Batch number: 11213039402A	Sample number(s): 6351916-6351924									
18a pH by 9045C						100		95-105		
Batch number: 11213039402B	Sample number(s): 6351925-6351928									
18a pH by 9045C						100		95-105		
Batch number: 11208162401A	Sample number(s): 6351908-6351918,6351920-6351925									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Batch number: 11209162401A	Sample number(s): 6351926-6351927									
Moisture Content by 160.3						100		80-120		
Batch number: 11214162401B	Sample number(s): 6351919,6351928									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11207SLC026	Sample number(s): 6351919,6351928 UNSPK: P345435								
N-Nitrosodimethylamine	94	111	70-130	13	30				
Batch number: 11211SLB026	Sample number(s): 6351908-6351913,6351915-6351928 UNSPK: 6351911								
Acenaphthene	97	101	63-105	4	30				
Acenaphthylene	98	102	67-114	4	30				
Anthracene	105	110	73-115	5	30				
Benzo(a)anthracene	101	108	59-128	6	30				
Benzo(a)pyrene	83	87	58-142	5	30				
Benzo(b)fluoranthene	100	107	54-163	7	30				
Benzo(g,h,i)perylene	44	40	33-141	10	30				
Benzo(k)fluoranthene	94	106	57-153	12	30				
Butylbenzylphthalate	125	155	57-173	21	30				
Di-n-butylphthalate	122	128	65-148	5	30				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chrysene	99	105	67-123	6	30				
Dibenz(a,h)anthracene	58	57	22-133	3	30				
Diethylphthalate	115	121	70-136	4	30				
Dimethylphthalate	105	109	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	118	154	39-167	19	30				
Fluoranthene	107	113	51-149	4	30				
Fluorene	103	108	66-122	5	30				
Indeno(1,2,3-cd)pyrene	55	54	21-143	2	30				
1-Methylnaphthalene	95	97	72-123	2	30				
2-Methylnaphthalene	92	96	64-103	4	30				
Naphthalene	95	99	61-102	4	30				
N-Nitrosodimethylamine	98	101	48-113	3	30				
Di-n-octylphthalate	127	146	40-192	14	30				
Phenanthrene	99	103	62-122	4	30				
Pyrene	100	110	51-131	10	30				
Batch number: 11211SLC026	Sample number(s): 6351908-6351913,6351915-6351928 UNSPK: 6351911								
Acenaphthene	102	103	75-115	1	30				
Acenaphthylene	110	112*	81-110	1	30				
Aniline	76	87	18-116	13	30				
Anthracene	109	112	75-115	2	30				
Benzidine	0*	16*	35-141	200*	30				
Benzo(a)anthracene	87	89	65-122	2	30				
Benzo(a)pyrene	105	107	57-126	2	30				
Benzo(b)fluoranthene	91	111	59-125	20	30				
Benzo(g,h,i)perylene	102	105	59-127	2	30				
Benzo(k)fluoranthene	112	105	56-132	7	30				
Benzoic acid	35	40	10-173	13	30				
Benzyl alcohol	104	110	67-115	5	30				
4-Bromophenyl-phenylether	92	95	67-129	2	30				
Butylbenzylphthalate	105	106	73-134	1	30				
Di-n-butylphthalate	103	108	67-123	4	30				
Carbazole	102	105	64-120	3	30				
4-Chloro-3-methylphenol	97	104	62-122	7	30				
4-Chloroaniline	40	74	13-107	60*	30				
bis(2-Chloroethoxy)methane	103	107*	75-104	3	30				
bis(2-Chloroethyl)ether	104	110	60-116	6	30				
bis(2-Chloroisopropyl)ether	122	126	55-142	3	30				
2-Chloronaphthalene	102	99	50-141	3	30				
2-Chlorophenol	113	116	73-121	3	30				
4-Chlorophenyl-phenylether	93	96	80-109	2	30				
Chrysene	86	87	62-128	1	30				
Dibenz(a,h)anthracene	104	105	65-125	1	30				
Dibenzofuran	98	100	71-112	2	30				
1,2-Dichlorobenzene	95	97	66-108	2	30				
1,3-Dichlorobenzene	94	95	63-109	0	30				
1,4-Dichlorobenzene	94	95	58-108	1	30				
3,3'-Dichlorobenzidine	58	70	28-109	18	30				
2,4-Dichlorophenol	103	106	66-123	3	30				
Diethylphthalate	101	101	66-118	0	30				
2,4-Dimethylphenol	100	106	68-118	5	30				
3,5-Dimethylphenol	100	106	71-127	5	30				
Dimethylphthalate	99	101	64-118	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257475
Reported: 09/08/11 at 02:22 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4,6-Dinitro-2-methylphenol	73	66	11-126	10	30				
2,4-Dinitrophenol	38	28	20-143	29	30				
2,4-Dinitrotoluene	98	99	56-129	1	30				
2,6-Dinitrotoluene	98	103	69-123	5	30				
1,2-Diphenylhydrazine	112	117	71-129	4	30				
bis(2-Ethylhexyl)phthalate	98	102	63-122	3	30				
Fluoranthene	96	99	73-112	3	30				
Fluorene	103	105	63-121	1	30				
Hexachlorobenzene	93	96	77-114	3	30				
Hexachlorobutadiene	83	85	62-120	2	30				
Hexachlorocyclopentadiene	80	70	10-153	14	30				
Hexachloroethane	92	90	57-109	2	30				
Indeno(1,2,3-cd)pyrene	101	103	61-126	2	30				
Isophorone	99	102	73-102	3	30				
1-Methylnaphthalene	96	99	64-122	2	30				
2-Methylnaphthalene	98	101	76-114	3	30				
2-Methylphenol	113*	120*	75-111	5	30				
4-Methylphenol	102	110	59-123	7	30				
Naphthalene	98	100	72-116	1	30				
2-Nitroaniline	107	110	67-125	3	30				
3-Nitroaniline	99	103	59-122	4	30				
4-Nitroaniline	79	88	41-109	10	30				
Nitrobenzene	96	99	57-125	3	30				
2-Nitrophenol	98	100	56-127	1	30				
4-Nitrophenol	81	82	37-129	1	30				
N-Nitroso-di-n-propylamine	98	102	60-116	4	30				
N-Nitrosodimethylamine	104	102	47-116	2	30				
N-Nitrosodiphenylamine	110	114	71-122	3	30				
Di-n-octylphthalate	132*	137*	56-126	3	30				
Pentachlorophenol	66	59	28-127	11	30				
Phenanthrene	104	108	65-125	4	30				
Phenol	110	119	58-126	8	30				
Pyrene	104	108	74-126	3	30				
Tetralin	73	15*	70-130	132*	30				
1,2,4-Trichlorobenzene	90	93	72-115	2	30				
2,4,5-Trichlorophenol	99	97	58-129	2	30				
2,4,6-Trichlorophenol	97	96	56-134	1	30				
Batch number: 112070007A	Sample number(s): 6351919,6351928 UNSPK: P343396								
4-Amino-2,6-Dinitrotoluene	107	108	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	105	107	80-137	2	50				
1,3-Dinitrobenzene	110	112	38-166	2	50				
2,4-Dinitrotoluene	101	104	80-131	2	50				
2,6-Dinitrotoluene	105	107	80-127	3	50				
HMX	90	91	63-128	1	50				
Nitrobenzene	103	107	80-125	4	50				
Nitroglycerin	85	85	80-120	1	50				
2-Nitrotoluene	103	106	80-122	3	50				
3-Nitrotoluene	111	114	72-119	2	50				
4-Nitrotoluene	102	105	80-125	3	50				
PETN	98	100	80-121	2	50				
RDX	87	89	75-129	2	50				
Tetryl	88	87	55-174	1	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257475
Reported: 09/08/11 at 02:22 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,3,5-Trinitrobenzene	102	105	82-126	3	50				
2,4,6-Trinitrotoluene	108	110	82-130	2	50				
Batch number: 112070008A	Sample number(s): 6351919,6351928 UNSPK: P353026								
25a Formaldehyde 8315A	100	93	80-120	7	50				
Batch number: 112130010A	Sample number(s): 6351908-6351913,6351915-6351925 UNSPK: 6351911								
2,4-D	87	86	17-180	1	35				
Dalapon	63	53	10-125	18	50				
2,4-DB	74	90	10-201	15	50				
Dicamba	72	0*	10-190	200*	50				
Dinoseb	8*	8*	10-46	3	35				
2,4-DP (Dichlorprop)	146	174	33-178	17	50				
MCPA	42	38	10-213	4	50				
MCPP (Mecoprop)	-33*	-15*	10-184	29	50				
2,4,5-T	49	57	10-156	14	35				
2,4,5-TP	73	60	24-141	20	35				
Batch number: 112130022A	Sample number(s): 6351908,6351926-6351928 UNSPK: P352971								
6a Perchlorate EPA 6850	119	121*	80-120	2	20				
Batch number: 112110006A	Sample number(s): 6351908-6351913,6351915-6351928 UNSPK: 6351911								
PCB-1016	82	81	29-146	1	50				
PCB-1260	84	80	39-149	6	50				
Batch number: 112110009A	Sample number(s): 6351908-6351913,6351915-6351925 UNSPK: 6351911								
Aldrin	67	79	16-126	17	50				
Alpha BHC	53	68	10-129	24	50				
Beta BHC	69	84	14-147	20	50				
Gamma BHC - Lindane	56	71	10-140	23	50				
p,p-DDD	66	72	16-163	9	50				
p,p-DDE	74	85	18-161	14	50				
p,p-DDT	75	89	10-176	17	50				
Delta BHC	63	72	23-140	14	50				
Dieldrin	60	68	19-154	11	50				
Endosulfan I	44	56	16-137	24	50				
Endosulfan II	60	66	28-154	10	50				
Endosulfan Sulfate	82	91	21-160	11	50				
Endrin	69	76	11-149	10	50				
Endrin Aldehyde	61	64	10-148	5	35				
Endrin Ketone	74	82	22-165	10	50				
Heptachlor	59	74	13-126	22	50				
Heptachlor Epoxide	64	76	13-157	17	50				
Methoxychlor	72	79	32-147	9	50				
Batch number: 112030001A	Sample number(s): 6351908-6351913,6351915-6351919,6351923-6351928 UNSPK: 6351911								
Diethylene glycol	15*	12*	59-109	21*	20				
Ethylene glycol	47*	46*	63-107	2	20				
Propylene glycol	62*	61*	63-107	2	20				
Batch number: 112040011A	Sample number(s): 6351908-6351913,6351915-6351919,6351923-6351928 UNSPK: 6351911								
Ethanol	74	80	48-130	8	20				
Isopropanol	89	90	12-149	1	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257475
Reported: 09/08/11 at 02:22 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Methanol	88	93	43-138	5	20				
Batch number: 112090041A	Sample number(s): 6351930 UNSPK: P353308								
Ethanol	108	104	62-145	4	20				
Isopropanol	94	90	73-131	4	20				
Methanol	92	92	52-159	0	20				
Batch number: 112130013A	Sample number(s): 6351908-6351913,6351915-6351919,6351923-6351928 UNSPK: 6351911								
m-Terphenyl	75	81	75-125	9	20				
o-Terphenyl	92	101	75-125	9	20				
p-Terphenyl	82	89	75-125	8	20				
Batch number: 112130029A	Sample number(s): 6351908-6351913,6351915-6351919,6351923-6351928 UNSPK: 6351911								
EFH (C12-C14)	90	96	49-123	6	20				
EFH (C15-C20)	143*	110	49-123	15	20				
EFH (C21-C30)	-30 (2)	95 (2)	49-123	21*	20				
EFH (C30 - C40)	-412 (2)	-292 (2)	49-123	11	20				
EFH (C8-C11)	21*	43*	49-123	12	20				
Batch number: 112071026002A	Sample number(s): 6351908-6351928 UNSPK: 6351911 BKG: 6351911								
Antimony	63*	65*	75-125	1	20	0.117 J	0.182 J	43* (1)	20
Arsenic	463*	425*	75-125	7	20	6.59	12.2	60*	20
Beryllium	177*	185*	75-125	1	20	0.949	1.23	26*	20
Cadmium	201*	195*	75-125	6	20	0.0770 J	0.146	62* (1)	20
Chromium	296*	301*	75-125	1	20	28.6	42.6	39*	20
Cobalt	198*	199*	75-125	2	20	8.74	16.0	59*	20
Copper	252*	259*	75-125	0	20	17.1	22.4	27*	20
Lead	359*	358*	75-125	2	20	8.67	13.6	44*	20
Nickel	301*	315*	75-125	1	20	20.6	32.7	46*	20
Silver	196*	197*	75-125	3	20	0.0373 J	0.0776 J	70* (1)	20
Thallium	220*	235*	75-125	3	20	0.344	0.488	35* (1)	20
Vanadium	392 (2)	384 (2)	75-125	2	20	53.7	80.5	40*	20
Zinc	468 (2)	449 (2)	75-125	3	20	80.1	111	33*	20
Batch number: 112071026002B	Sample number(s): 6351908-6351928 UNSPK: 6351911 BKG: 6351911								
Selenium	180*	179*	75-125	3	20	0.147 J	0.252 J	52* (1)	20
Batch number: 112071026002C	Sample number(s): 6351908-6351928 UNSPK: 6351911 BKG: 6351911								
Molybdenum	198*	199*	75-125	2	20	0.678	1.17	53*	20
Batch number: 112071026002D	Sample number(s): 6351908-6351928 UNSPK: 6351911 BKG: 6351911								
Barium	-185 (2)	-200 (2)	75-125	1	20	126	95.3	27*	20
Batch number: 112075708006	Sample number(s): 6351908-6351928 UNSPK: 6351911 BKG: 6351911								
Aluminum	1047 (2)	1393 (2)	75-125	3	20	17,300	18,200	5	20
Boron	91	91	84-115	0	20	1.16 J	1.02 J	14 (1)	20
Calcium	123 (2)	263 (2)	75-125	14	20	3,000	3,300	10	20
Iron	-1128 (2)	-1140 (2)	75-125	0	20	25,000	26,000	4	20
Lithium	96	98	82-114	1	20	30.3	30.9	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257475
Reported: 09/08/11 at 02:22 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Magnesium	-87 (2)	-43 (2)	75-125	1	20	6,130	6,190	1	20
Manganese	90 (2)	45 (2)	75-125	6	20	308	295	4	20
Phosphorus	69 (2)	80 (2)	75-125	2	20	444	453	2	20
Potassium	98	108	75-125	2	20	3,130	2,910	7	20
Sodium	95	96	75-125	0	20	98.4 J	105	6 (1)	20
Strontium	95	96	75-115	0	20	17.8	20.2	12	20
Tin	85	89	80-110	4	20	2.01 J	2.15 J	7 (1)	20
Titanium	231 (2)	263 (2)	75-125	2	20	1,120	1,160	3	20
Zirconium	95	96	75-125	0	20	2.56 J	2.98 J	15 (1)	20
Batch number: 112075711003	Sample number(s): 6351908-6351928 UNSPK: 6351911 BKG: 6351911								
Mercury	107	104	65-135	4	20	0.0083 J	0.0075 J	9 (1)	20
Batch number: 11209373202A	Sample number(s): 6351908-6351912,6351914-6351920 UNSPK: 6351911 BKG: 6351911								
7a Perchlorate EPA 314.0	106		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11209373202B	Sample number(s): 6351921-6351928 UNSPK: 6351921 BKG: 6351921								
7a Perchlorate EPA 314.0	93		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11210284201A	Sample number(s): 6351908-6351912,6351914-6351920 UNSPK: 6351911 BKG: 6351911								
11a Anions by 300.0 - Fluoride	46*		80-120			2.9	2.8	1 (1)	20
11a Anions by 300.0 - Nitrate	75*		80-120			2.5	2.5	1 (1)	20
Batch number: 11210284201B	Sample number(s): 6351921-6351928 UNSPK: 6351921 BKG: 6351921								
11a Anions by 300.0 - Fluoride	41*		80-120			1.7	1.9	9 (1)	20
11a Anions by 300.0 - Nitrate	91		80-120			0.80 U	1.3 J	200* (1)	20
Batch number: 11214243202A	Sample number(s): 6351908-6351912,6351914-6351928 UNSPK: 6351911 BKG: 6351911								
3a Cr VI by EPA 7199	85		75-125			0.45 J	0.20 U	200* (1)	20
Batch number: 11215102201A	Sample number(s): 6351919,6351928 UNSPK: P353026 BKG: P353026								
17a Cyanide by 9012B	103		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11213039401B	Sample number(s): 6351908-6351911,6351914-6351915 BKG: 6351911								
18a pH by 9045C						6.91	6.91	0	3
Batch number: 11213039402A	Sample number(s): 6351916-6351924 BKG: 6351916								
18a pH by 9045C						7.50	7.50	0	3
Batch number: 11213039402B	Sample number(s): 6351925-6351928 BKG: 6351928								
18a pH by 9045C						8.77	8.81	0	3
Batch number: 11208162401A	Sample number(s): 6351908-6351918,6351920-6351925 BKG: 6351911								
28a Moisture Content by 160.3						1.7	1.8	6 (1)	20
Moisture Content by 160.3						1.7	1.8	6 (1)	20
Moisture Content by 160.3						1.7	1.8	6 (1)	20
Batch number: 11209162401A	Sample number(s): 6351926-6351927 BKG: 6351927								
Moisture Content by 160.3						10.8	10.9	1	20
Batch number: 11214162401B	Sample number(s): 6351919,6351928 BKG: 6351928								
Moisture Content by 160.3						5.7	5.7	1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257475
Reported: 09/08/11 at 02:22 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B112071AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6351926	105	105	93	94
6351928	104	99	94	91
Blank	105	105	92	95
LCS	102	100	97	102
LCSD	101	100	98	102
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E112061AA

	Toluene-d8
6351929	101
6351930	101
Blank	101
LCS	102
LCSD	101
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E112062AA

	Toluene-d8
6351926	98
6351928	98
Blank	99
LCS	99
LCSD	99
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y112062AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6351929	99	105	92	89
6351930	100	106	91	88
Blank	101	107	91	88
LCS	101	108	92	92
LCSD	101	107	93	91
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11204WAC026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257475
Reported: 09/08/11 at 02:22 PM

Surrogate Quality Control

6351930	41	25	96	96	98	89
Blank	46	27	105	97	99	95
LCS	48	30	105	96	98	90
LCSD	50	31	106	99	98	92
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11206WAC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6351930	107	92	111
Blank	102	99	104
LCS	102	96	101
LCSD	104	96	102
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11207SLC026

	N-Nitrosodimethylamine-d6
6351919	92
6351928	92
Blank	97
LCS	102
MS	96
MSD	81
Limits:	50-150

Analysis Name: 15b NDMA by 1625C
Batch number: 11207WAA026

	N-Nitrosodimethylamine-d6
6351930	155*
Blank	102
LCS	106
LCSD	102
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11211SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6351908	118	96	109
6351909	114	97	120
6351910	122	112	102
6351911	117	98	106
6351912	117	96	102
6351913	119	102	112
6351915	96	87	76
6351916	104	94	84

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257475
Reported: 09/08/11 at 02:22 PM

Surrogate Quality Control

6351917	104	95	86
6351918	109	97	99
6351919	71	69	66
6351920	102	97	91
6351921	93	81	85
6351922	85	81	81
6351923	99	92	103
6351924	96	91	96
6351925	99	97	97
6351926	96	92	96
6351927	98	88	90
6351928	111	100	97
Blank	119	108	123
LCS	108	99	114
MS	117	96	102
MSD	119	102	112
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11211SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6351908	117	113	71	89	100	86
6351909	114	112	72	93	104	89
6351910	110	108	72	89	101	89
6351911	113	110	81	88	95	85
6351912	113	110	77	90	97	83
6351913	120	117	75	93	99	85
6351915	106	104	61	90	102	84
6351916	108	105	68	86	98	83
6351917	113	110	72	89	99	91
6351918	108	107	68	92	101	85
6351919	102	103	72	88	104	85
6351920	110	108	72	91	102	89
6351921	99	98	67	88	100	83
6351922	102	102	71	88	103	84
6351923	103	102	69	90	102	84
6351924	106	105	71	90	102	84
6351925	104	102	70	87	103	88
6351926	97	95	64	81	92	79
6351927	105	104	66	90	99	82
6351928	99	100	65	87	97	81
Blank	101	101	80	90	95	90
LCS	111	108	83	93	97	87
MS	113	110	77	90	97	83
MSD	120	117	75	93	99	85
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11206A34A

	Trifluorotoluene-F
6351926	82
6351927	76
6351928	80
Blank	80

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257475
Reported: 09/08/11 at 02:22 PM

Surrogate Quality Control

LCS 89
LCSD 85

Limits: 61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11206C20A
Trifluorotoluene-F

6351929 98
6351930 100
Blank 97
LCS 130
LCSD 134

Limits: 63-135

Analysis Name: 25b Formaldehyde 8315A
Batch number: 112020043A
Butyraldehyde

6351930 102
Blank 94
LCS 97
LCSD 97

Limits: 45-145

Analysis Name: 16b Energetics by 8330A
Batch number: 112070006A
2-Nitro-m-xylene

6351930 106
Blank 104
LCS 104
LCSD 104

Limits: 50-134

Analysis Name: 16a Energetics by 8330A
Batch number: 112070007A
2-Nitro-m-xylene

6351919 127
6351928 130
Blank 132
LCS 131
LCSD 117
MS 117
MSD 112

Limits: 80-146

Analysis Name: 25a Formaldehyde 8315A
Batch number: 112070008A
Butyraldehyde

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257475
Reported: 09/08/11 at 02:22 PM

Surrogate Quality Control

6351919	103
6351928	114
Blank	108
LCS	112
MS	112
MSD	103
Limits:	64-126

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 112070015A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6351930	110	80
Blank	105	77
LCS	107	91
LCSD	110	85
Limits:	30-150	30-150

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112110006A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6351908	83	79
6351909	96	89
6351910	92	80
6351911	117	100
6351912	95	86
6351913	89	83
6351915	93	78
6351916	98	82
6351917	111	95
6351918	92	80
6351919	96	99
6351920	93	81
6351921	84	148*
6351922	95	112
6351923	107	92
6351924	103	97
6351925	81	75
6351926	94	84
6351927	81	75
6351928	104	96
Blank	81	92
LCS	83	92
LCSD	74	88
MS	95	86
MSD	89	83
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 112110009A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6351908	71	86

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257475
Reported: 09/08/11 at 02:22 PM

Surrogate Quality Control

6351909	73	55
6351910	72	78
6351911	61	68
6351912	61	77
6351913	73	76
6351915	67	67
6351916	64	80
6351917	77	74
6351918	67	75
6351919	63	61
6351920	52	101
6351921	3*	99
6351922	40*	36
6351923	43*	54
6351924	30*	47
6351925	57	73
Blank	80	103
LCS	76	104
MS	61	77
MSD	73	76
Limits:	50-130	20-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112130010A

	2,4-Dichlorophenylacetic acid
6351908	91
6351909	122
6351910	102
6351911	111
6351912	115
6351913	109
6351915	109
6351916	101
6351917	114
6351918	77
6351919	57
6351920	89
6351921	0*
6351922	50
6351923	124
6351924	74
6351925	116
Blank	118
LCS	128
MS	115
MSD	109
Limits:	36-156

Analysis Name: 21b Glycols by 8015B
Batch number: 112020001A

	Tetramethylene glycol
6351930	110

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257475
Reported: 09/08/11 at 02:22 PM

Surrogate Quality Control

Blank	112	
LCS	111	
LCSD	116	
Limits:	77-119	

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 112020035A

	Chlorobenzene	Orthoterphenyl
6351930	85	94
Blank	83	94
LCS	85	104
LCSD	84	103
Limits:	28-152	52-131

Analysis Name: 20b Terphenyls by 8015B
Batch number: 112020037A

	n-Triacontane-d62
6351930	85
Blank	86
LCS	83
LCSD	87
Limits:	50-150

Analysis Name: 21a Glycols by 8015B
Batch number: 112030001A

	Tetramethylene glycol
6351908	91
6351909	85
6351910	87
6351911	86
6351912	96
6351913	93
6351915	85
6351916	88
6351917	85
6351918	89
6351919	89
6351923	82
6351924	81
6351925	82
6351926	91
6351927	88
6351928	93
Blank	110
LCS	96
MS	96
MSD	93
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257475
Reported: 09/08/11 at 02:22 PM

Surrogate Quality Control

Batch number: 112040011A

	Acetone
6351908	83
6351909	87
6351910	78
6351911	93
6351912	93
6351913	90
6351915	93
6351916	97
6351917	92
6351918	100
6351919	119
6351923	103
6351924	88
6351925	90
6351926	82
6351927	77
6351928	87
Blank	90
LCS	88
MS	93
MSD	90
Limits:	42-138

Analysis Name: 19b Alcohols by 8015B
Batch number: 112090041A

	Acetone
6351930	103
Blank	108
LCS	106
MS	102
MSD	101
Limits:	54-147

Analysis Name: 20a Terphenyls by 8015B
Batch number: 112130013A

	n-Triacontane-d62
6351908	63
6351909	81
6351910	76
6351911	67
6351912	73
6351913	79
6351915	57
6351916	72
6351917	74
6351918	73
6351919	53
6351923	75
6351924	75
6351925	73

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257475
Reported: 09/08/11 at 02:22 PM

Surrogate Quality Control

6351926	126
6351927	83
6351928	67
Blank	83
LCS	82
MS	73
MSD	79
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112130029A

	Chlorobenzene	Orthoterphenyl
6351908	79	95
6351909	77	96
6351910	83	94
6351911	76	92
6351912	68	92
6351913	71	92
6351915	63	91
6351916	54	87
6351917	49	87
6351918	63	95
6351919	68	91
6351923	60	88
6351924	66	91
6351925	70	93
6351926	84	100
6351927	71	82
6351928	78	93
Blank	65	89
LCS	79	94
MS	68	92
MSD	71	92
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013/ 1257475 / 6351965. 30

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA8) only, also report Tetrazin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terpenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-156-SA6-SS-0.0-0.5	7/20/11	0831	SOIL	NONE	1-SS Sleeve			X	X																	
SL-156-SA6-SS-0.0-0.5	7/20/11	0831	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X	X	X	X	X						X	X	X	
SL-157-SA6-SS-0.0-0.5	7/20/11	0914	SOIL	NONE	1-SS Sleeve			X	X																	
SL-157-SA6-SS-0.0-0.5	7/20/11	0914	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-159-SA6-SS-0.0-0.5	7/20/11	0940	SOIL	NONE	1-SS Sleeve			X	X																	
SL-159-SA6-SS-0.0-0.5	7/20/11	0940	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-160-SA6-SS-0.0-0.5MS	7/20/11	0815	SOIL	NONE	2-SS Sleeve			X	X																	MS/MSD
SL-160-SA6-SS-0.0-0.5MS	7/20/11	0815	SOIL	NONE	4-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	MS/MSD
SL-162-SA6-SS-0.0-0.5	7/20/11	0951	SOIL	NONE	1-SS Sleeve			X	X																	
SL-162-SA6-SS-0.0-0.5	7/20/11	0951	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-164-SA6-SS-0.0-0.5	7/20/11	0857	SOIL	NONE	1-SS Sleeve			X	X																	
SL-164-SA6-SS-0.0-0.5	7/20/11	0857	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-165-SA6-SS-0.0-0.5	7/20/11	1024	SOIL	NONE	1-SS Sleeve			X	X																	
SL-165-SA6-SS-0.0-0.5	7/20/11	1024	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-167-SA6-SS-0.0-0.5	7/20/11	0814	SOIL	NONE	1-SS Sleeve			X	X																	
SL-167-SA6-SS-0.0-0.5	7/20/11	0814	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-215-SA6-SS-0.0-0.5	7/20/11	1339	SOIL	NONE	1-SS Sleeve			X	X																	
SL-215-SA6-SS-0.0-0.5	7/20/11	1339	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-218-SA6-SS-0.0-0.5	7/20/11	1238	SOIL	NONE	1-SS Sleeve			X	X																	
SL-218-SA6-SS-0.0-0.5	7/20/11	1238	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
SL-220-SA6-SS-0.0-0.5	7/20/11	1319	SOIL	NONE	1-SS Sleeve			X	X																	
SL-220-SA6-SS-0.0-0.5	7/20/11	1319	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
SL-310-SA6-SS-0.0-0.5	7/20/11	1351	SOIL	NONE	1-SS Sleeve			X	X																	
SL-310-SA6-SS-0.0-0.5	7/20/11	1351	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
SL-321-SA6-SS-0.0-0.5	7/20/11	1010	SOIL	NONE	1-SS Sleeve			X	X																	
SL-321-SA6-SS-0.0-0.5	7/20/11	1010	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-322-SA6-SS-0.0-0.5	7/20/11	1052	SOIL	NONE	1-SS Sleeve			X	X																	
SL-322-SA6-SS-0.0-0.5	7/20/11	1052	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
DUP04-SA6-QC-072011	7/20/11	0815	SOIL	NONE	1-SS Sleeve			X	X																	
DUP04-SA6-QC-072011	7/20/11	0815	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	~~07/20/2011~~ / 1600	7/21/11	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8754 3340 9711,9700,9696,9641	

19015 / 1257475 / 051909-30

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetrazin under EPA Method 8270C.

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-086-SA6-SB-4.5	7/20/11	1436	SOIL	NONE	5-Encores										X	X	X										
SL-086-SA6-SB-4.0-5.0	7/20/11	1440	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-086-SA6-SB-9.5	7/20/11	1445	SOIL	NONE	1-Encore												X										
SL-086-SA6-SB-9.0-10.0	7/20/11	1450	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-097-SA6-SB-2.0	7/20/11	1400	SOIL	NONE	5-Encores										X	X	X										
SL-097-SA6-SB-1.5-2.5	7/20/11	1405	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
TB-072011	7/20/11		SOIL	NONE	4-40mL Vials										X	X	X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	07/20/2011 / 1600	7/21/11 915	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3340 9711,9700,9696,9641	

B013 / 125775 / 635909-30

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB-SA6-SB-072011	07.20.11	1200	WATER	NONE	10-1 liter ambers			X	X	X							X			X	X		X			
EB-SA6-SB-072011	07.20.11	1200	WATER	NONE	1-500 mL poly		X				X	X	X													
EB-SA6-SB-072011	07.20.11	1200	WATER	HNO3	1-500 mL poly	X																				
EB-SA6-SB-072011	07.20.11	1200	WATER	NaOH	1-500 mL glass																	X				
EB-SA6-SB-072011	07.20.11	1200	WATER	NONE	1-250 mL glass														X							
EB-SA6-SB-072011	07.20.11	1200	WATER	HCl	11-40 mL vials																				X	
EB-SA6-SB-072011	07.20.11	1200	WATER	NONE	4-40 mL vials													X						X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	07/20/2011 / 1600	LLJ 7/21/11 915	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8754 3340 9711,9700,9696,9641	

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Tuesday, July 26, 2011 5:36 PM
To: Nicole Maljovec
Subject: RE: SSFL COC 7/20/11- Question on EB

Nicole

You are correct, we need VOCs, 1,4-Dioxane and GRO.

Thank you!

Pam

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Tuesday, July 26, 2011 2:26 PM
To: Hartman, Pamela
Subject: FW: SSFL COC 7/20/11- Question on EB

Hi Pam,
For EB-SA6-SB-072011, we received 11 HCl vials, but only the alcohol analysis is marked off on the COC. Can you check this one and see if VOCs, 1,4-Dioxane, and/or GRO was needed for this sample?

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Wednesday, July 20, 2011 7:41 PM
To: Bloisa, Peggy; Burgesser, Todd; 'Laura Rainey'; Nicole Maljovec; SA Env Entry; Zakowski, Cherie
Subject: SSFL COC 7/20/11

COC for Wednesday 7/20/11

Thanks,

Pam

CONFIDENTIAL MATERIAL: This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If received in error, please notify sender by return e-mail and destroy all copies of the original transmission and any attachments. Thank you.

If you wish to view information about Lancaster Laboratories, Inc., please visit our website at www.lancasterlabs.com

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 08, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/21/2011
Group Number: 1257476
SDG: DX115
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-156-SA6-SS-0.0-0.5 Soil	6351931
SL-157-SA6-SS-0.0-0.5 Soil	6351932
SL-159-SA6-SS-0.0-0.5 Soil	6351933
SL-160-SA6-SS-0.0-0.5 Soil	6351934
SL-160-SA6-SS-0.0-0.5MS Soil	6351935
SL-160-SA6-SS-0.0-0.5MSD Soil	6351936

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-156-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA6-SS-0.0-0.5

LLI Sample # SW 6351931
LLI Group # 1257476
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:31

Submitted: 07/21/2011 09:15
Reported: 08/08/2011 10:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1517 SDG#: DX115-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-156-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA6-SS-0.0-0.5

LLI Sample # SW 6351931
LLI Group # 1257476
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:31

Submitted: 07/21/2011 09:15
Reported: 08/08/2011 10:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1517 SDG#: DX115-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0221	U	0.0221	1.01	1
11031	12378-PeCDD	40321-76-4	0.226	JBQ	0.0269	5.03	1
11031	123478-HxCDD	39227-28-6	0.259	JB	0.0408	5.03	1
11031	123678-HxCDD	57653-85-7	0.582	JB	0.0414	5.03	1
11031	123789-HxCDD	19408-74-3	0.820	JB	0.0401	5.03	1
11031	1234678-HpCDD	35822-46-9	13.1	B	0.0501	5.03	1
11031	OCDD	3268-87-9	228	B	0.0605	10.1	1
11031	2378-TCDF	51207-31-9	0.0263	JBQ	0.0206	1.01	1
11031	12378-PeCDF	57117-41-6	0.0282	JBQ	0.0140	5.03	1
11031	23478-PeCDF	57117-31-4	0.101	JBQ	0.0127	5.03	1
11031	123478-HxCDF	70648-26-9	0.0802	JBQ	0.0205	5.03	1
11031	123678-HxCDF	57117-44-9	0.0742	JBQ	0.0191	5.03	1
11031	123789-HxCDF	72918-21-9	0.114	JBQ	0.0190	5.03	1
11031	234678-HxCDF	60851-34-5	0.0736	JB	0.0172	5.03	1
11031	1234678-HpCDF	67562-39-4	0.979	JB	0.0179	5.03	1
11031	1234789-HpCDF	55673-89-7	0.0613	JB	0.0231	5.03	1
11031	OCDF	39001-02-0	2.34	JB	0.0305	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	91	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	93	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	97	23 - 140
13C12-OCDD	96	17 - 157
13C12-2378-TCDF	92	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	91	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	93	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	84	26 - 138
13C12-OCDF	80	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-156-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA6-SS-0.0-0.5

LLI Sample # SW 6351931
LLI Group # 1257476
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:31

Submitted: 07/21/2011 09:15
Reported: 08/08/2011 10:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1517 SDG#: DX115-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-156-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA6-SS-0.0-0.5

LLI Sample # SW 6351931
LLI Group # 1257476
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:31

Submitted: 07/21/2011 09:15
Reported: 08/08/2011 10:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1517 SDG#: DX115-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11210001	08/02/2011 11:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11210001	07/29/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-157-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA6-SS-0.0-0.5

LLI Sample # SW 6351932
LLI Group # 1257476
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:14

Submitted: 07/21/2011 09:15
Reported: 08/08/2011 10:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1518 SDG#: DX115-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-157-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA6-SS-0.0-0.5

LLI Sample # SW 6351932
LLI Group # 1257476
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:14

Submitted: 07/21/2011 09:15
Reported: 08/08/2011 10:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1518 SDG#: DX115-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0780	J	0.0316	0.972	1
11031	12378-PeCDD	40321-76-4	0.274	JB	0.0299	4.86	1
11031	123478-HxCDD	39227-28-6	0.470	JB	0.0527	4.86	1
11031	123678-HxCDD	57653-85-7	1.31	JB	0.0519	4.86	1
11031	123789-HxCDD	19408-74-3	1.08	JB	0.0524	4.86	1
11031	1234678-HpCDD	35822-46-9	37.0	B	0.0714	4.86	1
11031	OCDD	3268-87-9	970	B	0.0877	9.72	1
11031	2378-TCDF	51207-31-9	0.0476	JBQ	0.0329	0.972	1
11031	12378-PeCDF	57117-41-6	0.0502	JBQ	0.0202	4.86	1
11031	23478-PeCDF	57117-31-4	0.181	JB	0.0175	4.86	1
11031	123478-HxCDF	70648-26-9	0.257	JB	0.0278	4.86	1
11031	123678-HxCDF	57117-44-9	0.160	JB	0.0258	4.86	1
11031	123789-HxCDF	72918-21-9	0.0988	JB	0.0260	4.86	1
11031	234678-HxCDF	60851-34-5	0.181	JB	0.0235	4.86	1
11031	1234678-HpCDF	67562-39-4	2.56	JB	0.0219	4.86	1
11031	1234789-HpCDF	55673-89-7	0.155	JBQ	0.0263	4.86	1
11031	OCDF	39001-02-0	8.41	JB	0.0456	9.72	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	94	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	89	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	84	26 - 138
13C12-OCDF	82	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-157-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA6-SS-0.0-0.5

LLI Sample # SW 6351932
LLI Group # 1257476
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:14

Submitted: 07/21/2011 09:15
Reported: 08/08/2011 10:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1518 SDG#: DX115-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-157-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA6-SS-0.0-0.5

LLI Sample # SW 6351932
LLI Group # 1257476
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:14

Submitted: 07/21/2011 09:15
Reported: 08/08/2011 10:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1518 SDG#: DX115-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11210001	08/02/2011 17:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11210001	07/29/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

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Analysis Report

Sample Description: SL-159-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA6-SS-0.0-0.5

LLI Sample # SW 6351933
LLI Group # 1257476
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:40

Submitted: 07/21/2011 09:15
Reported: 08/08/2011 10:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1519 SDG#: DX115-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-159-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA6-SS-0.0-0.5

LLI Sample # SW 6351933
LLI Group # 1257476
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:40

Submitted: 07/21/2011 09:15
Reported: 08/08/2011 10:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1519 SDG#: DX115-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0680	JQ	0.0316	1.00	1
11031	12378-PeCDD	40321-76-4	0.318	JBQ	0.0340	5.01	1
11031	123478-HxCDD	39227-28-6	0.546	JB	0.0475	5.01	1
11031	123678-HxCDD	57653-85-7	1.13	JB	0.0473	5.01	1
11031	123789-HxCDD	19408-74-3	1.09	JB	0.0464	5.01	1
11031	1234678-HpCDD	35822-46-9	31.0	B	0.0623	5.01	1
11031	OCDD	3268-87-9	508	B	0.0890	10.0	1
11031	2378-TCDF	51207-31-9	0.0324	U	0.0324	1.00	1
11031	12378-PeCDF	57117-41-6	0.0674	JBQ	0.0163	5.01	1
11031	23478-PeCDF	57117-31-4	0.211	JBQ	0.0161	5.01	1
11031	123478-HxCDF	70648-26-9	0.297	JB	0.0284	5.01	1
11031	123678-HxCDF	57117-44-9	0.183	JBQ	0.0257	5.01	1
11031	123789-HxCDF	72918-21-9	0.176	JBQ	0.0280	5.01	1
11031	234678-HxCDF	60851-34-5	0.229	JB	0.0236	5.01	1
11031	1234678-HpCDF	67562-39-4	3.23	JB	0.0189	5.01	1
11031	1234789-HpCDF	55673-89-7	0.210	JB	0.0258	5.01	1
11031	OCDF	39001-02-0	5.82	JB	0.0431	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-159-SA6-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA6-SS-0.0-0.5

LLI Sample # SW 6351933
LLI Group # 1257476
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:40

Submitted: 07/21/2011 09:15
Reported: 08/08/2011 10:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1519 SDG#: DX115-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-159-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA6-SS-0.0-0.5

LLI Sample # SW 6351933
LLI Group # 1257476
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:40

Submitted: 07/21/2011 09:15
Reported: 08/08/2011 10:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1519 SDG#: DX115-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11210001	08/02/2011 18:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11210001	07/29/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-160-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351934
LLI Group # 1257476
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 08/08/2011 10:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1520 SDG#: DX115-20BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-160-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351934
LLI Group # 1257476
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 08/08/2011 10:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1520 SDG#: DX115-20BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0392	JQ	0.0287	0.992	1
11031	12378-PeCDD	40321-76-4	0.108	JBQ	0.0278	4.96	1
11031	123478-HxCDD	39227-28-6	0.276	JB	0.0460	4.96	1
11031	123678-HxCDD	57653-85-7	0.594	JB	0.0472	4.96	1
11031	123789-HxCDD	19408-74-3	0.472	JB	0.0465	4.96	1
11031	1234678-HpCDD	35822-46-9	20.2	B	0.0548	4.96	1
11031	OCDD	3268-87-9	302	B	0.0587	9.92	1
11031	2378-TCDF	51207-31-9	0.0274	U	0.0274	0.992	1
11031	12378-PeCDF	57117-41-6	0.0290	JBQ	0.0141	4.96	1
11031	23478-PeCDF	57117-31-4	0.125	JBQ	0.0138	4.96	1
11031	123478-HxCDF	70648-26-9	0.246	JB	0.0257	4.96	1
11031	123678-HxCDF	57117-44-9	0.169	JB	0.0229	4.96	1
11031	123789-HxCDF	72918-21-9	0.134	JBQ	0.0290	4.96	1
11031	234678-HxCDF	60851-34-5	0.204	JBQ	0.0237	4.96	1
11031	1234678-HpCDF	67562-39-4	3.12	JB	0.0170	4.96	1
11031	1234789-HpCDF	55673-89-7	0.332	JB	0.0287	4.96	1
11031	OCDF	39001-02-0	6.53	JB	0.0355	9.92	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-160-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351934
LLI Group # 1257476
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 08/08/2011 10:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1520 SDG#: DX115-20BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-160-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351934
LLI Group # 1257476
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 08/08/2011 10:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1520 SDG#: DX115-20BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11210001	08/02/2011 19:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11210001	07/29/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-160-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351935
LLI Group # 1257476
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 08/08/2011 10:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1520 SDG#: DX115-20MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-160-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351935
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Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 08/08/2011 10:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1520 SDG#: DX115-20MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	18.0		0.0381	0.985	1
11031	12378-PeCDD	40321-76-4	91.3	B	0.0405	4.92	1
11031	123478-HxCDD	39227-28-6	90.3	B	0.0576	4.92	1
11031	123678-HxCDD	57653-85-7	87.2	B	0.0582	4.92	1
11031	123789-HxCDD	19408-74-3	87.8	B	0.0567	4.92	1
11031	1234678-HpCDD	35822-46-9	110	B	0.0702	4.92	1
11031	OCDD	3268-87-9	537	B	0.0726	9.85	1
11031	2378-TCDF	51207-31-9	16.6	B	0.0352	0.985	1
11031	12378-PeCDF	57117-41-6	86.5	B	0.0279	4.92	1
11031	23478-PeCDF	57117-31-4	86.2	B	0.0254	4.92	1
11031	123478-HxCDF	70648-26-9	84.3	B	0.0814	4.92	1
11031	123678-HxCDF	57117-44-9	84.2	B	0.0768	4.92	1
11031	123789-HxCDF	72918-21-9	83.3	B	0.0804	4.92	1
11031	234678-HxCDF	60851-34-5	85.9	B	0.0677	4.92	1
11031	1234678-HpCDF	67562-39-4	88.3	B	0.0534	4.92	1
11031	1234789-HpCDF	55673-89-7	85.9	B	0.0654	4.92	1
11031	OCDF	39001-02-0	176	B	0.0592	9.85	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	74	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-160-SA6-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351935
LLI Group # 1257476
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 08/08/2011 10:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1520 SDG#: DX115-20MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-160-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351935
LLI Group # 1257476
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 08/08/2011 10:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1520 SDG#: DX115-20MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11210001	08/03/2011 08:39	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11210001	07/29/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-160-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351936
LLI Group # 1257476
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 08/08/2011 10:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1520 SDG#: DX115-20MSD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-160-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351936
LLI Group # 1257476
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X1520 SDG#: DX115-20MSD*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	16.1		0.0375	1.02	1
11031	12378-PeCDD	40321-76-4	81.3	B	0.0447	5.09	1
11031	123478-HxCDD	39227-28-6	82.6	B	0.0630	5.09	1
11031	123678-HxCDD	57653-85-7	80.1	B	0.0633	5.09	1
11031	123789-HxCDD	19408-74-3	78.0	B	0.0620	5.09	1
11031	1234678-HpCDD	35822-46-9	101	B	0.0712	5.09	1
11031	OCDD	3268-87-9	483	B	0.0936	10.2	1
11031	2378-TCDF	51207-31-9	13.8	B	0.0361	1.02	1
11031	12378-PeCDF	57117-41-6	75.0	B	0.0363	5.09	1
11031	23478-PeCDF	57117-31-4	72.8	B	0.0330	5.09	1
11031	123478-HxCDF	70648-26-9	76.5	B	0.0620	5.09	1
11031	123678-HxCDF	57117-44-9	77.0	B	0.0579	5.09	1
11031	123789-HxCDF	72918-21-9	77.3	B	0.0578	5.09	1
11031	234678-HxCDF	60851-34-5	78.3	B	0.0577	5.09	1
11031	1234678-HpCDF	67562-39-4	81.3	B	0.0650	5.09	1
11031	1234789-HpCDF	55673-89-7	79.9	B	0.0778	5.09	1
11031	OCDF	39001-02-0	162	B	0.0677	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	60	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	57	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	53	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

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Analysis Report

Sample Description: **SL-160-SA6-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

LLI Sample # SW 6351936
LLI Group # 1257476
Account # 13013

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Collected: 07/20/2011 08:15

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X1520 SDG#: DX115-20MSD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

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SSFL Area IV Collocated Soil Sampling
SL-160-SA6-SS-0.0-0.5

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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X1520 SDG#: DX115-20MSD*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11210001	08/02/2011 21:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11210001	07/29/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257476
Reported: 08/08/11 at 10:43 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11208162401A	Sample number(s): 6351931-6351936								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11210001	Sample number(s): 6351931-6351936								
2378-TCDD	0.0381 U	0.0381	1.00	ng/kg	92		67-158		
12378-PeCDD	0.0724 J	0.0313	5.00	ng/kg	97		70-142		
123478-HxCDD	0.0831 J	0.0268	5.00	ng/kg	94		70-164		
123678-HxCDD	0.0751 J	0.0281	5.00	ng/kg	90		76-134		
123789-HxCDD	0.0786 J	0.0269	5.00	ng/kg	91		64-162		
1234678-HpCDD	1.10 J	0.0399	5.00	ng/kg	91		70-140		
OCDD	6.35 J	0.0304	10.0	ng/kg	90		78-144		
2378-TCDF	0.0475 J	0.0354	1.00	ng/kg	93		75-158		
12378-PeCDF	0.0473 J	0.0166	5.00	ng/kg	92		80-134		
23478-PeCDF	0.0459 J	0.0151	5.00	ng/kg	88		68-160		
123478-HxCDF	0.0448 J	0.0206	5.00	ng/kg	85		72-134		
123678-HxCDF	0.0341 J	0.0199	5.00	ng/kg	86		84-130		
123789-HxCDF	0.0484 J	0.0127	5.00	ng/kg	86		78-130		
234678-HxCDF	0.0534 J	0.0116	5.00	ng/kg	87		70-156		
1234678-HpCDF	0.0960 J	0.0146	5.00	ng/kg	85		82-122		
1234789-HpCDF	0.0192 J	0.0142	5.00	ng/kg	87		78-138		
OCDF	0.174 J	0.0351	10.0	ng/kg	85		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11208162401A	Sample number(s): 6351931-6351936					BKG: P351911			
Moisture Content by 160.3						1.7	1.8	6 (1)	20
Batch number: 11210001	Sample number(s): 6351931-6351936					UNSPK: 6351934			
2378-TCDD	91	79	67-158	11	25				
12378-PeCDD	93	80	70-142	12	25				
123478-HxCDD	91	81	70-164	9	25				
123678-HxCDD	88	78	76-134	8	25				
123789-HxCDD	89	76	64-162	12	25				
1234678-HpCDD	92	80	70-140	9	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257476
Reported: 08/08/11 at 10:43 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
OCDD	119	89	78-144	11	25				
2378-TCDF	84	68*	75-158	18	25				
12378-PeCDF	88	74*	80-134	14	25				
23478-PeCDF	87	71	68-160	17	25				
123478-HxCDF	85	75	72-134	10	25				
123678-HxCDF	85	76*	84-130	9	25				
123789-HxCDF	84	76*	78-130	8	25				
234678-HxCDF	87	77	70-156	9	25				
1234678-HpCDF	86	77*	82-122	8	25				
1234789-HpCDF	87	78	78-138	7	25				
OCDF	86	76	63-170	9	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11210001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6351931	91	91	75	80	86	93
6351932	84	84	74	77	86	89
6351933	80	80	66	72	77	77
6351934	76	73	67	73	70	69
6351935	81	76	63	65	72	73
6351936	79	59	56	57	57	67
Blank	72	82	46	46	78	82
MS	81	76	63	65	72	73
MSD	79	59	56	57	57	67
OPR	71	82	64	71	73	74
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6351931	91	84	80	90	93	94
6351932	87	84	82	82	83	88
6351933	86	73	73	81	80	82
6351934	88	65	61	74	74	74
6351935	73	72	74	79	76	78
6351936	62	59	53	71	77	78
Blank	66	80	84	83	80	82
MS	73	72	74	79	76	78
MSD	62	59	53	71	77	78
OPR	87	74	75	83	81	85
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257476
Reported: 08/08/11 at 10:43 AM

Surrogate Quality Control

6351931	92	97	96	92	94
6351932	86	92	94	87	84
6351933	81	85	89	82	85
6351934	72	76	78	73	80
6351935	79	85	88	80	80
6351936	76	80	72	65	60
Blank	82	94	101	71	85
MS	79	85	88	80	80
MSD	76	80	72	65	60
OPR	82	90	93	69	84
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 / 1257476 / 6351931-36

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 5 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	*TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0 *	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-156-SA6-SS-0.0-0.5	7/20/11	0831	SOIL	NONE	1-SS Sleeve			X	X																	
SL-156-SA6-SS-0.0-0.5	7/20/11	0831	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X	X	X	X	X						X	X	X	
SL-157-SA6-SS-0.0-0.5	7/20/11	0914	SOIL	NONE	1-SS Sleeve			X	X																	
SL-157-SA6-SS-0.0-0.5	7/20/11	0914	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-159-SA6-SS-0.0-0.5	7/20/11	0940	SOIL	NONE	1-SS Sleeve			X	X																	
SL-159-SA6-SS-0.0-0.5	7/20/11	0940	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-160-SA6-SS-0.0-0.5MS	7/20/11	0815	SOIL	NONE	2-SS Sleeve			X	X																	MS/MSD
SL-160-SA6-SS-0.0-0.5MS	7/20/11	0815	SOIL	NONE	4-16 oz jar	X	X			X	X	X	X		X	X	X						X	X	X	MS/MSD
SL-162-SA6-SS-0.0-0.5	7/20/11	0951	SOIL	NONE	1-SS Sleeve			X	X																	
SL-162-SA6-SS-0.0-0.5	7/20/11	0951	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-164-SA6-SS-0.0-0.5	7/20/11	0857	SOIL	NONE	1-SS Sleeve			X	X																	
SL-164-SA6-SS-0.0-0.5	7/20/11	0857	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-165-SA6-SS-0.0-0.5	7/20/11	1024	SOIL	NONE	1-SS Sleeve			X	X																	
SL-165-SA6-SS-0.0-0.5	7/20/11	1024	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-167-SA6-SS-0.0-0.5	7/20/11	0814	SOIL	NONE	1-SS Sleeve			X	X																	
SL-167-SA6-SS-0.0-0.5	7/20/11	0814	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-215-SA6-SS-0.0-0.5	7/20/11	1339	SOIL	NONE	1-SS Sleeve			X	X							-										
SL-215-SA6-SS-0.0-0.5	7/20/11	1339	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-218-SA6-SS-0.0-0.5	7/20/11	1238	SOIL	NONE	1-SS Sleeve			X	X																	
SL-218-SA6-SS-0.0-0.5	7/20/11	1238	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-220-SA6-SS-0.0-0.5	7/20/11	1319	SOIL	NONE	1-SS Sleeve			X	X																	
SL-220-SA6-SS-0.0-0.5	7/20/11	1319	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-310-SA6-SS-0.0-0.5	7/20/11	1351	SOIL	NONE	1-SS Sleeve			X	X																	
SL-310-SA6-SS-0.0-0.5	7/20/11	1351	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-321-SA6-SS-0.0-0.5	7/20/11	1010	SOIL	NONE	1-SS Sleeve			X	X																	
SL-321-SA6-SS-0.0-0.5	7/20/11	1010	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-322-SA6-SS-0.0-0.5	7/20/11	1052	SOIL	NONE	1-SS Sleeve			X	X																	
SL-322-SA6-SS-0.0-0.5	7/20/11	1052	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X	X						X	X	X	
DUP04-SA6-QC-072011	7/20/11	0815	SOIL	NONE	1-SS Sleeve			X	X																	
DUP04-SA6-QC-072011	7/20/11	0815	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X	X						X	X	X	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	~~07/20/2011 / 1600~~	7/21/11 915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3340 9711,9700,9696,9641	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 17, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/21/2011
Group Number: 1257478
SDG: DX116
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-162-SA6-SS-0.0-0.5 Soil	6351944
SL-164-SA6-SS-0.0-0.5 Soil	6351945
SL-165-SA6-SS-0.0-0.5 Soil	6351946
SL-167-SA6-SS-0.0-0.5 Soil	6351947
SL-215-SA6-SS-0.0-0.5 Soil	6351948
SL-218-SA6-SS-0.0-0.5 Soil	6351949
SL-220-SA6-SS-0.0-0.5 Soil	6351950
SL-310-SA6-SS-0.0-0.5 Soil	6351951
SL-321-SA6-SS-0.0-0.5 Soil	6351952
SL-322-SA6-SS-0.0-0.5 Soil	6351953
DUP04-SA6-QC-072011 Soil	6351954
SL-086-SA6-SB-4.0-5.0 Soil	6351955
SL-086-SA6-SB-9.0-10.0 Soil	6351956
SL-097-SA6-SB-1.5-2.5 Soil	6351957
EB-SA6-SB-072011 Water	6351958

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-162-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA6-SS-0.0-0.5

LLI Sample # SW 6351944
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:51

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1601 SDG#: DX116-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-162-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA6-SS-0.0-0.5

LLI Sample # SW 6351944
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:51

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1601 SDG#: DX116-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0887	J	0.0239	0.989	1
11031	12378-PeCDD	40321-76-4	0.651	JB	0.0362	4.95	1
11031	123478-HxCDD	39227-28-6	1.08	JB	0.0434	4.95	1
11031	123678-HxCDD	57653-85-7	2.35	JB	0.0446	4.95	1
11031	123789-HxCDD	19408-74-3	2.64	JB	0.0429	4.95	1
11031	1234678-HpCDD	35822-46-9	52.5	B	0.0602	4.95	1
11031	OCDD	3268-87-9	906	B	0.0448	9.89	1
11031	2378-TCDF	51207-31-9	0.291	JB	0.0280	0.989	1
11031	12378-PeCDF	57117-41-6	0.162	JBQ	0.0214	4.95	1
11031	23478-PeCDF	57117-31-4	0.476	JB	0.0208	4.95	1
11031	123478-HxCDF	70648-26-9	0.645	JBQ	0.0489	4.95	1
11031	123678-HxCDF	57117-44-9	0.405	JB	0.0499	4.95	1
11031	123789-HxCDF	72918-21-9	0.240	JB	0.0268	4.95	1
11031	234678-HxCDF	60851-34-5	0.328	JBQ	0.0268	4.95	1
11031	1234678-HpCDF	67562-39-4	4.79	JB	0.0281	4.95	1
11031	1234789-HpCDF	55673-89-7	0.320	JB	0.0198	4.95	1
11031	OCDF	39001-02-0	12.9	B	0.0275	9.89	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	46	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	56	28 - 143
13C12-1234789-HpCDF	85	26 - 138
13C12-OCDF	86	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-162-SA6-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA6-SS-0.0-0.5

LLI Sample # SW 6351944
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:51

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1601 SDG#: DX116-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-162-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA6-SS-0.0-0.5

LLI Sample # SW 6351944
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 09:51

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1601 SDG#: DX116-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11214002	08/05/2011 22:21	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11214002	08/02/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-164-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA6-SS-0.0-0.5

LLI Sample # SW 6351945
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:57

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1602 SDG#: DX116-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-164-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA6-SS-0.0-0.5

LLI Sample # SW 6351945
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:57

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1602 SDG#: DX116-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0449	JQ	0.0197	0.984	1
11031	12378-PeCDD	40321-76-4	0.199	JB	0.0251	4.92	1
11031	123478-HxCDD	39227-28-6	0.295	JB	0.0396	4.92	1
11031	123678-HxCDD	57653-85-7	0.759	JB	0.0408	4.92	1
11031	123789-HxCDD	19408-74-3	0.940	JB	0.0347	4.92	1
11031	1234678-HpCDD	35822-46-9	16.9	B	0.0408	4.92	1
11031	OCDD	3268-87-9	287	B	0.0324	9.84	1
11031	2378-TCDF	51207-31-9	0.0393	JBQ	0.0223	0.984	1
11031	12378-PeCDF	57117-41-6	0.0561	JBQ	0.0138	4.92	1
11031	23478-PeCDF	57117-31-4	0.0857	JBQ	0.0129	4.92	1
11031	123478-HxCDF	70648-26-9	0.156	JBQ	0.0339	4.92	1
11031	123678-HxCDF	57117-44-9	0.207	JBQ	0.0347	4.92	1
11031	123789-HxCDF	72918-21-9	0.0827	JB	0.0185	4.92	1
11031	234678-HxCDF	60851-34-5	0.133	JBQ	0.0172	4.92	1
11031	1234678-HpCDF	67562-39-4	1.78	JB	0.0371	4.92	1
11031	1234789-HpCDF	55673-89-7	0.150	JB	0.0288	4.92	1
11031	OCDF	39001-02-0	3.88	JB	0.0271	9.84	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	43	26 - 152
13C12-123678-HxCDF	40	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	55	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	81	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-164-SA6-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-164-SA6-SS-0.0-0.5

LLI Sample # SW 6351945
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:57

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1602 SDG#: DX116-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-164-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA6-SS-0.0-0.5

LLI Sample # SW 6351945
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:57

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1602 SDG#: DX116-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11214002	08/05/2011 23:17	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11214002	08/02/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

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Analysis Report

Sample Description: SL-165-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA6-SS-0.0-0.5

LLI Sample # SW 6351946
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:24

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1603 SDG#: DX116-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-165-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA6-SS-0.0-0.5

LLI Sample # SW 6351946
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:24

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1603 SDG#: DX116-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**		**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0342	JQ	0.0265	0.996	1
11031	12378-PeCDD	40321-76-4	0.157	JBQ	0.0248	4.98	1
11031	123478-HxCDD	39227-28-6	0.260	JBQ	0.0382	4.98	1
11031	123678-HxCDD	57653-85-7	0.738	JBQ	0.0407	4.98	1
11031	123789-HxCDD	19408-74-3	0.737	JB	0.0352	4.98	1
11031	1234678-HpCDD	35822-46-9	15.1	B	0.0403	4.98	1
11031	OCDD	3268-87-9	299	B	0.0350	9.96	1
11031	2378-TCDF	51207-31-9	0.0919	JBQ	0.0288	0.996	1
11031	12378-PeCDF	57117-41-6	0.0641	JBQ	0.0153	4.98	1
11031	23478-PeCDF	57117-31-4	0.0825	JB	0.0151	4.98	1
11031	123478-HxCDF	70648-26-9	0.131	JB	0.0290	4.98	1
11031	123678-HxCDF	57117-44-9	0.146	JBQ	0.0267	4.98	1
11031	123789-HxCDF	72918-21-9	0.0821	JBQ	0.0243	4.98	1
11031	234678-HxCDF	60851-34-5	0.117	JBQ	0.0195	4.98	1
11031	1234678-HpCDF	67562-39-4	1.64	JB	0.0198	4.98	1
11031	1234789-HpCDF	55673-89-7	0.149	JBQ	0.0233	4.98	1
11031	OCDF	39001-02-0	3.98	JB	0.0325	9.96	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	78	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-165-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA6-SS-0.0-0.5

LLI Sample # SW 6351946
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:24

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1603 SDG#: DX116-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-165-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA6-SS-0.0-0.5

LLI Sample # SW 6351946
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:24

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1603 SDG#: DX116-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11214002	08/06/2011 00:14	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11214002	08/02/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

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Analysis Report

Sample Description: SL-167-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA6-SS-0.0-0.5

LLI Sample # SW 6351947
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:14

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1604 SDG#: DX116-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-167-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA6-SS-0.0-0.5

LLI Sample # SW 6351947
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:14

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1604 SDG#: DX116-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.134	JQ	0.0209	0.986	1
11031	12378-PeCDD	40321-76-4	0.882	JB	0.0346	4.93	1
11031	123478-HxCDD	39227-28-6	1.38	JB	0.0323	4.93	1
11031	123678-HxCDD	57653-85-7	2.84	JB	0.0329	4.93	1
11031	123789-HxCDD	19408-74-3	2.97	JB	0.0312	4.93	1
11031	1234678-HpCDD	35822-46-9	72.8	B	0.0616	4.93	1
11031	OCDD	3268-87-9	1,270	B	0.0465	9.86	1
11031	2378-TCDF	51207-31-9	0.0212	U	0.0212	0.986	1
11031	12378-PeCDF	57117-41-6	0.0882	JB	0.0157	4.93	1
11031	23478-PeCDF	57117-31-4	0.202	JBQ	0.0151	4.93	1
11031	123478-HxCDF	70648-26-9	0.355	JB	0.0339	4.93	1
11031	123678-HxCDF	57117-44-9	0.219	JBQ	0.0324	4.93	1
11031	123789-HxCDF	72918-21-9	0.199	JBQ	0.0252	4.93	1
11031	234678-HxCDF	60851-34-5	0.252	JB	0.0224	4.93	1
11031	1234678-HpCDF	67562-39-4	5.01	B	0.0231	4.93	1
11031	1234789-HpCDF	55673-89-7	0.362	JB	0.0213	4.93	1
11031	OCDF	39001-02-0	15.4	B	0.0253	9.86	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	83	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-167-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA6-SS-0.0-0.5

LLI Sample # SW 6351947
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:14

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1604 SDG#: DX116-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-167-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA6-SS-0.0-0.5

LLI Sample # SW 6351947
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:14

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1604 SDG#: DX116-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11214002	08/06/2011 01:11	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11214002	08/02/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

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Analysis Report

Sample Description: SL-215-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA6-SS-0.0-0.5

LLI Sample # SW 6351948
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:39

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1605 SDG#: DX116-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-215-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA6-SS-0.0-0.5

LLI Sample # SW 6351948
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:39

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1605 SDG#: DX116-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	1.96	0.0956	1.00	1
11031	12378-PeCDD	40321-76-4	15.5 B	0.0848	5.00	1
11031	123478-HxCDD	39227-28-6	21.1 B	0.0609	5.00	1
11031	123678-HxCDD	57653-85-7	47.3 B	0.0629	5.00	1
11031	123789-HxCDD	19408-74-3	48.6 B	0.0572	5.00	1
11031	1234678-HpCDD	35822-46-9	1,090 B	0.205	5.00	1
11031	OCDD	3268-87-9	12,900 EB	0.107	10.0	1
11650	2378-TCDF-Conf	51207-31-9	4.29 BC	0.0549	1.00	1
11031	12378-PeCDF	57117-41-6	3.37 JB	0.0668	5.00	1
11031	23478-PeCDF	57117-31-4	6.44 B	0.0612	5.00	1
11031	123478-HxCDF	70648-26-9	7.95 B	0.109	5.00	1
11031	123678-HxCDF	57117-44-9	4.38 JB	0.110	5.00	1
11031	123789-HxCDF	72918-21-9	1.92 JB	0.0711	5.00	1
11031	234678-HxCDF	60851-34-5	5.66 B	0.0617	5.00	1
11031	1234678-HpCDF	67562-39-4	135 B	0.108	5.00	1
11031	1234789-HpCDF	55673-89-7	8.33 B	0.0809	5.00	1
11031	OCDF	39001-02-0	567 B	0.0397	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-2378-TCDF-Conf	75	24 - 169
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	96	17 - 157
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	47	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	80	29 - 147

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-215-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA6-SS-0.0-0.5

LLI Sample # SW 6351948
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:39

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1605 SDG#: DX116-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-1234678-HpCDF	57	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	87	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-215-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA6-SS-0.0-0.5

LLI Sample # SW 6351948
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:39

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1605 SDG#: DX116-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11214002	08/06/2011 02:07	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11214002	08/09/2011 04:53	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11214002	08/02/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401B	08/02/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-218-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-218-SA6-SS-0.0-0.5

LLI Sample # SW 6351949
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 12:38

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1606 SDG#: DX116-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-218-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-218-SA6-SS-0.0-0.5

LLI Sample # SW 6351949
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 12:38

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1606 SDG#: DX116-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.103	J	0.0239	0.996	1
11031	12378-PeCDD	40321-76-4	0.656	JB	0.0410	4.98	1
11031	123478-HxCDD	39227-28-6	1.83	JB	0.0428	4.98	1
11031	123678-HxCDD	57653-85-7	4.11	JB	0.0454	4.98	1
11031	123789-HxCDD	19408-74-3	3.10	JB	0.0431	4.98	1
11031	1234678-HpCDD	35822-46-9	132	B	0.0696	4.98	1
11031	OCDD	3268-87-9	1,370	B	0.0498	9.96	1
11031	2378-TCDF	51207-31-9	0.484	JB	0.0329	0.996	1
11031	12378-PeCDF	57117-41-6	0.337	JB	0.0222	4.98	1
11031	23478-PeCDF	57117-31-4	0.570	JB	0.0230	4.98	1
11031	123478-HxCDF	70648-26-9	1.68	JB	0.0479	4.98	1
11031	123678-HxCDF	57117-44-9	1.69	JB	0.0434	4.98	1
11031	123789-HxCDF	72918-21-9	0.305	JBQ	0.0356	4.98	1
11031	234678-HxCDF	60851-34-5	2.13	JB	0.0301	4.98	1
11031	1234678-HpCDF	67562-39-4	51.5	B	0.0522	4.98	1
11031	1234789-HpCDF	55673-89-7	4.00	JB	0.0589	4.98	1
11031	OCDF	39001-02-0	193	B	0.0433	9.96	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	76	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-218-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-218-SA6-SS-0.0-0.5

LLI Sample # SW 6351949
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 12:38

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1606 SDG#: DX116-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-218-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-218-SA6-SS-0.0-0.5

LLI Sample # SW 6351949
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 12:38

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1606 SDG#: DX116-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11214002	08/06/2011 03:04	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11214002	08/02/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-220-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-220-SA6-SS-0.0-0.5

LLI Sample # SW 6351950
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:19

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1607 SDG#: DX116-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-220-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-220-SA6-SS-0.0-0.5

LLI Sample # SW 6351950
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:19

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1607 SDG#: DX116-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.898 J	0.0338	0.994	1
11031	12378-PeCDD	40321-76-4	8.27 B	0.0689	4.97	1
11031	123478-HxCDD	39227-28-6	25.4 B	0.0779	4.97	1
11031	123678-HxCDD	57653-85-7	86.2 B	0.0799	4.97	1
11031	123789-HxCDD	19408-74-3	39.0 B	0.0787	4.97	1
11031	1234678-HpCDD	35822-46-9	3,210 EB	0.230	4.97	1
11031	OCDD	3268-87-9	48,200 EB	0.152	9.94	1
11650	2378-TCDF-Conf	51207-31-9	7.00 BC	0.0590	0.994	1
11031	12378-PeCDF	57117-41-6	3.76 JB	0.0719	4.97	1
11031	23478-PeCDF	57117-31-4	12.6 B	0.0673	4.97	1
11031	123478-HxCDF	70648-26-9	16.6 B	0.132	4.97	1
11031	123678-HxCDF	57117-44-9	9.03 B	0.143	4.97	1
11031	123789-HxCDF	72918-21-9	3.48 JB	0.0870	4.97	1
11031	234678-HxCDF	60851-34-5	14.1 B	0.0825	4.97	1
11031	1234678-HpCDF	67562-39-4	685 B	0.112	4.97	1
11031	1234789-HpCDF	55673-89-7	26.9 B	0.104	4.97	1
11031	OCDF	39001-02-0	3,310 B	0.0461	9.94	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-2378-TCDF-Conf	72	24 - 169
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	105	17 - 157
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	54	26 - 123
13C12-234678-HxCDF	90	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: SL-220-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-220-SA6-SS-0.0-0.5

LLI Sample # SW 6351950
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:19

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1607 SDG#: DX116-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	84	26 - 138
13C12-OCDF	95	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-220-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-220-SA6-SS-0.0-0.5

LLI Sample # SW 6351950
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:19

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1607 SDG#: DX116-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11214002	08/06/2011 04:00	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11214002	08/09/2011 05:59	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11214002	08/02/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-310-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-310-SA6-SS-0.0-0.5

LLI Sample # SW 6351951
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:51

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1608 SDG#: DX116-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-310-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-310-SA6-SS-0.0-0.5

LLI Sample # SW 6351951
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:51

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1608 SDG#: DX116-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.285	J	0.0249	0.985	1
11031	12378-PeCDD	40321-76-4	2.12	JB	0.0640	4.93	1
11031	123478-HxCDD	39227-28-6	4.38	JB	0.0618	4.93	1
11031	123678-HxCDD	57653-85-7	13.4	B	0.0636	4.93	1
11031	123789-HxCDD	19408-74-3	7.75	B	0.0569	4.93	1
11031	1234678-HpCDD	35822-46-9	414	B	0.142	4.93	1
11031	OCDD	3268-87-9	6,990	EB	0.0992	9.85	1
11650	2378-TCDF-Conf	51207-31-9	1.43	BC	0.0510	0.985	1
11031	12378-PeCDF	57117-41-6	1.31	JB	0.0609	4.93	1
11031	23478-PeCDF	57117-31-4	4.71	JB	0.0614	4.93	1
11031	123478-HxCDF	70648-26-9	4.65	JB	0.116	4.93	1
11031	123678-HxCDF	57117-44-9	2.48	JB	0.112	4.93	1
11031	123789-HxCDF	72918-21-9	0.930	JB	0.0570	4.93	1
11031	234678-HxCDF	60851-34-5	3.65	JB	0.0510	4.93	1
11031	1234678-HpCDF	67562-39-4	52.4	B	0.0846	4.93	1
11031	1234789-HpCDF	55673-89-7	4.21	JB	0.0561	4.93	1
11031	OCDF	39001-02-0	178	B	0.0355	9.85	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	90	25 - 164
13C12-2378-TCDF-Conf	83	24 - 169
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	95	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	102	17 - 157
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	95	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	46	26 - 123
13C12-234678-HxCDF	97	28 - 136
13C12-123789-HxCDF	95	29 - 147
13C12-1234678-HpCDF	55	28 - 143
13C12-1234789-HpCDF	92	26 - 138
13C12-OCDF	91	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-310-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-310-SA6-SS-0.0-0.5

LLI Sample # SW 6351951
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:51

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1608 SDG#: DX116-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-310-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-310-SA6-SS-0.0-0.5

LLI Sample # SW 6351951
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 13:51

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1608 SDG#: DX116-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11214002	08/06/2011 04:57	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11214002	08/09/2011 07:05	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11214002	08/02/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-321-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA6-SS-0.0-0.5

LLI Sample # SW 6351952
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:10

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1609 SDG#: DX116-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-321-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA6-SS-0.0-0.5

LLI Sample # SW 6351952
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:10

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1609 SDG#: DX116-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0741	J	0.0182	0.987	1
11031	12378-PeCDD	40321-76-4	0.131	JBQ	0.0260	4.93	1
11031	123478-HxCDD	39227-28-6	0.320	JB	0.0436	4.93	1
11031	123678-HxCDD	57653-85-7	0.669	JB	0.0451	4.93	1
11031	123789-HxCDD	19408-74-3	0.487	JB	0.0400	4.93	1
11031	1234678-HpCDD	35822-46-9	22.3	B	0.0440	4.93	1
11031	OCDD	3268-87-9	348	B	0.0374	9.87	1
11031	2378-TCDF	51207-31-9	0.0483	JB	0.0176	0.987	1
11031	12378-PeCDF	57117-41-6	0.0812	JBQ	0.0127	4.93	1
11031	23478-PeCDF	57117-31-4	0.113	JB	0.0125	4.93	1
11031	123478-HxCDF	70648-26-9	0.276	JB	0.0356	4.93	1
11031	123678-HxCDF	57117-44-9	0.147	JB	0.0348	4.93	1
11031	123789-HxCDF	72918-21-9	0.208	JB	0.0250	4.93	1
11031	234678-HxCDF	60851-34-5	0.183	JB	0.0244	4.93	1
11031	1234678-HpCDF	67562-39-4	3.50	JB	0.0274	4.93	1
11031	1234789-HpCDF	55673-89-7	0.299	JB	0.0265	4.93	1
11031	OCDF	39001-02-0	6.42	JB	0.0297	9.87	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	77	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-321-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA6-SS-0.0-0.5

LLI Sample # SW 6351952
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:10

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1609 SDG#: DX116-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-321-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA6-SS-0.0-0.5

LLI Sample # SW 6351952
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:10

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1609 SDG#: DX116-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11214002	08/06/2011 08:57	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11214002	08/02/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-322-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA6-SS-0.0-0.5

LLI Sample # SW 6351953
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:52

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1610 SDG#: DX116-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-322-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA6-SS-0.0-0.5

LLI Sample # SW 6351953
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:52

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1610 SDG#: DX116-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.112	JQ	0.0232	0.995	1
11031	12378-PeCDD	40321-76-4	0.666	JB	0.0563	4.98	1
11031	123478-HxCDD	39227-28-6	2.73	JB	0.0474	4.98	1
11031	123678-HxCDD	57653-85-7	5.84	B	0.0487	4.98	1
11031	123789-HxCDD	19408-74-3	2.67	JB	0.0474	4.98	1
11031	1234678-HpCDD	35822-46-9	262	B	0.110	4.98	1
11031	OCDD	3268-87-9	4,170	EB	0.0546	9.95	1
11031	2378-TCDF	51207-31-9	0.110	JB	0.0229	0.995	1
11031	12378-PeCDF	57117-41-6	0.253	JB	0.0177	4.98	1
11031	23478-PeCDF	57117-31-4	0.511	JB	0.0169	4.98	1
11031	123478-HxCDF	70648-26-9	3.34	JB	0.0493	4.98	1
11031	123678-HxCDF	57117-44-9	1.39	JB	0.0449	4.98	1
11031	123789-HxCDF	72918-21-9	1.34	JB	0.0411	4.98	1
11031	234678-HxCDF	60851-34-5	2.07	JB	0.0402	4.98	1
11031	1234678-HpCDF	67562-39-4	58.9	B	0.0328	4.98	1
11031	1234789-HpCDF	55673-89-7	6.14	B	0.0380	4.98	1
11031	OCDF	39001-02-0	154	B	0.0337	9.95	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	94	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	81	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-322-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA6-SS-0.0-0.5

LLI Sample # SW 6351953
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:52

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1610 SDG#: DX116-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-322-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA6-SS-0.0-0.5

LLI Sample # SW 6351953
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 10:52

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1610 SDG#: DX116-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11214002	08/06/2011 09:53	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11214002	08/02/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP04-SA6-QC-072011 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA6-QC-072011

LLI Sample # SW 6351954
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1611 SDG#: DX116-11FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP04-SA6-QC-072011 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA6-QC-072011

LLI Sample # SW 6351954
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1611 SDG#: DX116-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0509	JQ	0.0183	0.992	1
11031	12378-PeCDD	40321-76-4	0.193	JB	0.0259	4.96	1
11031	123478-HxCDD	39227-28-6	0.363	JB	0.0487	4.96	1
11031	123678-HxCDD	57653-85-7	0.799	JB	0.0498	4.96	1
11031	123789-HxCDD	19408-74-3	0.680	JB	0.0579	4.96	1
11031	1234678-HpCDD	35822-46-9	25.9	B	0.0454	4.96	1
11031	OCDD	3268-87-9	436	B	0.0376	9.92	1
11031	2378-TCDF	51207-31-9	0.0420	JBQ	0.0219	0.992	1
11031	12378-PeCDF	57117-41-6	0.0703	JB	0.0144	4.96	1
11031	23478-PeCDF	57117-31-4	0.127	JB	0.0146	4.96	1
11031	123478-HxCDF	70648-26-9	0.318	JBQ	0.0335	4.96	1
11031	123678-HxCDF	57117-44-9	0.184	JB	0.0306	4.96	1
11031	123789-HxCDF	72918-21-9	0.186	JB	0.0274	4.96	1
11031	234678-HxCDF	60851-34-5	0.212	JB	0.0244	4.96	1
11031	1234678-HpCDF	67562-39-4	4.00	JB	0.0222	4.96	1
11031	1234789-HpCDF	55673-89-7	0.340	JB	0.0239	4.96	1
11031	OCDF	39001-02-0	8.28	JB	0.0298	9.92	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	79	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP04-SA6-QC-072011 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA6-QC-072011

LLI Sample # SW 6351954
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1611 SDG#: DX116-11FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP04-SA6-QC-072011 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA6-QC-072011

LLI Sample # SW 6351954
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 08:15

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1611 SDG#: DX116-11FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11214002	08/06/2011 10:50	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11214002	08/02/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11208162401A	07/27/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-086-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA6-SB-4.0-5.0

LLI Sample # SW 6351955
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:40

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1612 SDG#: DX116-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-086-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA6-SB-4.0-5.0

LLI Sample # SW 6351955
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:40

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1612 SDG#: DX116-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0183 U	0.0183	1.06	1
11031	12378-PeCDD	40321-76-4	0.0763 JBQ	0.0195	5.29	1
11031	123478-HxCDD	39227-28-6	0.0415 JBQ	0.0255	5.29	1
11031	123678-HxCDD	57653-85-7	0.187 JBQ	0.0265	5.29	1
11031	123789-HxCDD	19408-74-3	0.103 JB	0.0236	5.29	1
11031	1234678-HpCDD	35822-46-9	3.54 JB	0.0294	5.29	1
11031	OCDD	3268-87-9	29.9 B	0.0207	10.6	1
11031	2378-TCDF	51207-31-9	0.319 JBQ	0.0228	1.06	1
11031	12378-PeCDF	57117-41-6	0.205 JB	0.0268	5.29	1
11031	23478-PeCDF	57117-31-4	0.197 JBQ	0.0264	5.29	1
11031	123478-HxCDF	70648-26-9	1.50 JB	0.0478	5.29	1
11031	123678-HxCDF	57117-44-9	0.126 JBQ	0.0439	5.29	1
11031	123789-HxCDF	72918-21-9	0.0801 JBQ	0.0414	5.29	1
11031	234678-HxCDF	60851-34-5	0.207 JB	0.0367	5.29	1
11031	1234678-HpCDF	67562-39-4	1.34 JB	0.0191	5.29	1
11031	1234789-HpCDF	55673-89-7	0.111 JBQ	0.0216	5.29	1
11031	OCDF	39001-02-0	3.14 JB	0.0197	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	94	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	84	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-086-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA6-SB-4.0-5.0

LLI Sample # SW 6351955
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:40

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1612 SDG#: DX116-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-086-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA6-SB-4.0-5.0

LLI Sample # SW 6351955
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:40

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1612 SDG#: DX116-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11214002	08/06/2011 11:47	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11214002	08/02/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	3	11209162401A	07/28/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-086-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA6-SB-9.0-10.0

LLI Sample # SW 6351956
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:50

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1613 SDG#: DX116-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-086-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA6-SB-9.0-10.0

LLI Sample # SW 6351956
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:50

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1613 SDG#: DX116-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0323 JQ	0.0197	1.07	1
11031	12378-PeCDD	40321-76-4	0.0212 JBQ	0.0187	5.34	1
11031	123478-HxCDD	39227-28-6	0.0161 U	0.0161	5.34	1
11031	123678-HxCDD	57653-85-7	0.0451 JBQ	0.0164	5.34	1
11031	123789-HxCDD	19408-74-3	0.0408 JBQ	0.0141	5.34	1
11031	1234678-HpCDD	35822-46-9	0.260 JB	0.0217	5.34	1
11031	OCDD	3268-87-9	0.930 JB	0.0209	10.7	1
11031	2378-TCDF	51207-31-9	0.0214 U	0.0214	1.07	1
11031	12378-PeCDF	57117-41-6	0.0283 JB	0.0131	5.34	1
11031	23478-PeCDF	57117-31-4	0.0664 JBQ	0.0127	5.34	1
11031	123478-HxCDF	70648-26-9	0.0176 JBQ	0.0130	5.34	1
11031	123678-HxCDF	57117-44-9	0.0196 JBQ	0.0121	5.34	1
11031	123789-HxCDF	72918-21-9	0.0354 JBQ	0.0114	5.34	1
11031	234678-HxCDF	60851-34-5	0.0243 JBQ	0.00953	5.34	1
11031	1234678-HpCDF	67562-39-4	0.0598 JB	0.0107	5.34	1
11031	1234789-HpCDF	55673-89-7	0.0191 JB	0.0119	5.34	1
11031	OCDF	39001-02-0	0.122 JB	0.0233	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	94	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	77	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-086-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA6-SB-9.0-10.0

LLI Sample # SW 6351956
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:50

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1613 SDG#: DX116-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-086-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA6-SB-9.0-10.0

LLI Sample # SW 6351956
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:50

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1613 SDG#: DX116-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11214002	08/06/2011 12:43	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11214002	08/02/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	3	11209162401A	07/28/2011 20:37	Scott W Freisher	1

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Analysis Report

Sample Description: SL-097-SA6-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA6-SB-1.5-2.5

LLI Sample # SW 6351957
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:05

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1614 SDG#: DX116-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-097-SA6-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA6-SB-1.5-2.5

LLI Sample # SW 6351957
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:05

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1614 SDG#: DX116-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0589	JQ	0.0144	1.01	1
11031	12378-PeCDD	40321-76-4	0.165	JBQ	0.0220	5.05	1
11031	123478-HxCDD	39227-28-6	0.451	JB	0.0288	5.05	1
11031	123678-HxCDD	57653-85-7	1.55	JB	0.0305	5.05	1
11031	123789-HxCDD	19408-74-3	0.583	JB	0.0280	5.05	1
11031	1234678-HpCDD	35822-46-9	63.6	B	0.0564	5.05	1
11031	OCDD	3268-87-9	982	B	0.0382	10.1	1
11031	2378-TCDF	51207-31-9	0.362	JB	0.0290	1.01	1
11031	12378-PeCDF	57117-41-6	0.190	JB	0.0178	5.05	1
11031	23478-PeCDF	57117-31-4	0.297	JB	0.0177	5.05	1
11031	123478-HxCDF	70648-26-9	0.417	JB	0.0425	5.05	1
11031	123678-HxCDF	57117-44-9	0.328	JB	0.0429	5.05	1
11031	123789-HxCDF	72918-21-9	0.128	JB	0.0281	5.05	1
11031	234678-HxCDF	60851-34-5	0.490	JB	0.0255	5.05	1
11031	1234678-HpCDF	67562-39-4	6.26	B	0.0306	5.05	1
11031	1234789-HpCDF	55673-89-7	0.756	JB	0.0281	5.05	1
11031	OCDF	39001-02-0	16.3	B	0.0244	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	53	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	83	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-097-SA6-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA6-SB-1.5-2.5

LLI Sample # SW 6351957
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:05

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1614 SDG#: DX116-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-097-SA6-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA6-SB-1.5-2.5

LLI Sample # SW 6351957
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 14:05

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1614 SDG#: DX116-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11214002	08/06/2011 13:40	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11214002	08/02/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11214162401B	08/02/2011 18:22	Scott W Freisher	1

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Analysis Report

Sample Description: EB-SA6-SB-072011 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-072011

LLI Sample # WW 6351958
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 12:00

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1615 SDG#: DX116-15EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.173	JB	0.0937	2.12	1
10915	12378-PeCDD	40321-76-4	0.106	JBQ	0.0888	10.6	1
10915	123478-HxCDD	39227-28-6	0.134	JBQ	0.0888	10.6	1
10915	123678-HxCDD	57653-85-7	0.243	JB	0.0948	10.6	1
10915	123789-HxCDD	19408-74-3	0.395	JB	0.0916	10.6	1
10915	1234678-HpCDD	35822-46-9	4.26	JB	0.111	10.6	1
10915	OCDD	3268-87-9	9.53	JB	0.121	21.2	1
10915	2378-TCDF	51207-31-9	0.0776	U	0.0776	2.12	1
10915	12378-PeCDF	57117-41-6	0.108	JBQ	0.0528	10.6	1
10915	23478-PeCDF	57117-31-4	0.433	JBQ	0.0459	10.6	1
10915	123478-HxCDF	70648-26-9	0.200	JBQ	0.0459	10.6	1
10915	123678-HxCDF	57117-44-9	0.180	JB	0.0456	10.6	1
10915	123789-HxCDF	72918-21-9	0.330	JB	0.0374	10.6	1
10915	234678-HxCDF	60851-34-5	0.165	JBQ	0.0430	10.6	1
10915	1234678-HpCDF	67562-39-4	0.605	JB	0.0527	10.6	1
10915	1234789-HpCDF	55673-89-7	0.386	JBQ	0.0644	10.6	1
10915	OCDF	39001-02-0	0.986	JB	0.131	21.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	62	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	57	17 - 157

Dioxins/Furans Data Qualifiers:

- *B* *Detected in Method Blank*
- *U* *Undetected*
- *J* *Estimated concentration between Estimated Detection Limit and Minimum Level*
- *E* *Exceeds calibration range*
- *C* *Confirmed quantitation on secondary GC column*
- *Q* *EMPC - Estimated Maximum Possible Concentration*
- *F* *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA6-SB-072011 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-072011

LLI Sample # WW 6351958
LLI Group # 1257478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/20/2011 12:00

Submitted: 07/21/2011 09:15
Reported: 08/17/2011 18:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1615 SDG#: DX116-15EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11224001	08/16/2011 15:58	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	2	11224001	08/12/2011 07:30	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257478
Reported: 08/17/11 at 06:14 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11208162401A	Sample number(s): 6351944-6351947,6351949-6351954								
Moisture Content by 160.3					100		80-120		
Batch number: 11209162401A	Sample number(s): 6351955-6351956								
Moisture Content by 160.3					100		80-120		
Batch number: 11214162401B	Sample number(s): 6351948,6351957								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11214002	Sample number(s): 6351944-6351957								
2378-TCDD	0.0228 U	0.0228	1.00	ng/kg	93		67-158		
12378-PeCDD	0.0337 J	0.0262	5.00	ng/kg	97		70-142		
123478-HxCDD	0.0896 J	0.0244	5.00	ng/kg	97		70-164		
123678-HxCDD	0.0673 J	0.0253	5.00	ng/kg	95		76-134		
123789-HxCDD	0.0880 J	0.0225	5.00	ng/kg	93		64-162		
1234678-HpCDD	1.14 J	0.0268	5.00	ng/kg	94		70-140		
OCDD	7.54 J	0.0218	10.0	ng/kg	98		78-144		
2378-TCDF	0.0364 J	0.0249	1.00	ng/kg	100		75-158		
2378-TCDF-Conf	0.0381 J	0.0301	1.00	ng/kg	100		75-158		
12378-PeCDF	0.0262 J	0.0150	5.00	ng/kg	94		80-134		
23478-PeCDF	0.0827 J	0.0154	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0447 J	0.0377	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0467 J	0.0380	5.00	ng/kg	95		84-130		
123789-HxCDF	0.0283 J	0.0129	5.00	ng/kg	98		78-130		
234678-HxCDF	0.0193 J	0.0120	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.0913 J	0.0173	5.00	ng/kg	96		82-122		
1234789-HpCDF	0.0388 J	0.0112	5.00	ng/kg	96		78-138		
OCDF	0.147 J	0.0288	10.0	ng/kg	95		63-170		
Batch number: 11224001	Sample number(s): 6351958								
2378-TCDD	0.457 J	0.114	2.00	pg/l	92		67-158		
12378-PeCDD	0.437 J	0.111	10.0	pg/l	99		70-142		
123478-HxCDD	0.200 J	0.105	10.0	pg/l	101		70-164		
123678-HxCDD	0.373 J	0.108	10.0	pg/l	103		76-134		
123789-HxCDD	0.458 J	0.110	10.0	pg/l	102		64-162		
1234678-HpCDD	3.99 J	0.160	10.0	pg/l	104		70-140		
OCDD	8.97 J	0.188	20.0	pg/l	108		78-144		
2378-TCDF	0.139 J	0.0899	2.00	pg/l	97		75-158		
12378-PeCDF	0.280 J	0.0626	10.0	pg/l	101		80-134		
23478-PeCDF	0.450 J	0.0565	10.0	pg/l	99		68-160		
123478-HxCDF	0.405 J	0.0734	10.0	pg/l	109		72-134		
123678-HxCDF	0.218 J	0.0726	10.0	pg/l	108		84-130		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257478
Reported: 08/17/11 at 06:14 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
123789-HxCDF	0.595	J	0.0861	10.0	pg/l	107		78-130		
234678-HxCDF	0.268	J	0.0683	10.0	pg/l	106		70-156		
1234678-HpCDF	0.817	J	0.0717	10.0	pg/l	108		82-122		
1234789-HpCDF	0.551	J	0.0878	10.0	pg/l	108		78-138		
OCDF	1.57	J	0.164	20.0	pg/l	113		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11208162401A	Sample number(s): 6351944-6351947,6351949-6351954					BKG: P351911			
Moisture Content by 160.3						1.7	1.8	6 (1)	20
Batch number: 11209162401A	Sample number(s): 6351955-6351956					BKG: P351927			
Moisture Content by 160.3						10.8	10.9	1	20
Batch number: 11214162401B	Sample number(s): 6351948,6351957					BKG: P351928			
Moisture Content by 160.3						5.7	5.7	1	20
Batch number: 11214002	Sample number(s): 6351944-6351957 UNSPK: P353211								
2378-TCDD	90	91	67-158	5	25				
12378-PeCDD	97	98	70-142	5	25				
123478-HxCDD	96	100	70-164	8	25				
123678-HxCDD	95	99	76-134	7	25				
123789-HxCDD	95	95	64-162	4	25				
1234678-HpCDD	76	151*	70-140	17	25				
OCDD	-445 (2)	-51 (2)	78-144	16	25				
2378-TCDF	99	100	75-158	5	25				
2378-TCDF-Conf	99	100	75-158	5	25				
12378-PeCDF	101	96	80-134	2	25				
23478-PeCDF	96	97	68-160	5	25				
123478-HxCDF	97	96	72-134	2	25				
123678-HxCDF	96	94	84-130	2	25				
123789-HxCDF	95	96	78-130	4	25				
234678-HxCDF	96	98	70-156	6	25				
1234678-HpCDF	98	128*	82-122	19	25				
1234789-HpCDF	95	99	78-138	8	25				
OCDF	105	146	63-170	17	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11214002

13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257478
Reported: 08/17/11 at 06:14 PM

Surrogate Quality Control

6351944	79	82	48	46	82	88
6351945	77	84	43	40	83	83
6351946	69	79	57	62	86	76
6351947	73	81	57	59	83	81
6351948	77	86	48	47	83	80
6351949	76	82	59	63	88	78
6351950	77	83	59	54	90	91
6351951	90	95	47	46	97	95
6351952	77	81	57	58	83	84
6351953	75	84	68	72	78	82
6351954	74	81	63	67	83	81
6351955	78	88	66	72	85	82
6351956	67	79	61	64	80	76
6351957	78	86	55	53	86	83
Blank	78	83	28	28	84	83
MS	75	81	73	75	83	85
MSD	92	98	53	56	94	96
OPR	72	78	47	57	79	70

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6351944	56	85	86	82	80	79
6351945	55	80	81	85	81	79
6351946	78	76	78	82	84	80
6351947	66	80	83	79	76	76
6351948	57	83	87	84	81	79
6351949	75	75	76	82	82	80
6351950	66	84	95	81	85	83
6351951	55	92	91	93	86	84
6351952	69	79	77	81	80	78
6351953	82	77	81	85	79	79
6351954	77	79	79	81	82	82
6351955	83	83	84	90	86	84
6351956	78	79	77	82	78	75
6351957	65	80	83	87	84	82
Blank	43	75	73	84	77	76
MS	77	80	83	77	80	77
MSD	71	83	85	99	87	88
OPR	81	66	64	81	82	81

Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6351944	82	85	91	80	83	
6351945	86	87	93	78	87	
6351946	84	83	91	68	84	
6351947	79	78	88	77	81	
6351948	82	82	96		85	75
6351949	84	83	88	75	88	
6351950	83	89	105		83	72
6351951	95	93	102		99	83
6351952	84	85	87	77	84	
6351953	79	83	94	72	87	
6351954	66	84	88	73	85	
6351955	87	91	94	75	89	

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257478
Reported: 08/17/11 at 06:14 PM

Surrogate Quality Control

6351956	83	88	94	66	83	
6351957	86	87	93	78	88	
Blank	86	91	95	78	90	72
MS	79	81	88	77	81	77
MSD	95	95	104	92	108	92
OPR	85	87	92	69	88	69
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11224001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6351958	69	63	58	59	64	84
Blank	71	63	67	67	70	68
OPR	65	61	60	62	64	78
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6351958	63	66	57	68	65	65
Blank	61	62	56	66	70	70
OPR	62	63	58	65	67	63
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6351958	67	67	58	59	62	
Blank	71	65	57	65	63	
OPR	66	64	59	58	60	58
Limits:	28-130	23-140	17-157	24-169	24-185	22-152

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 / 257478 / L-351940-58

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex. Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0 *	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-156-SA6-SS-0.0-0.5	7/20/11	0831	SOIL	NONE	1-SS Sleeve			X	X																	
SL-156-SA6-SS-0.0-0.5	7/20/11	0831	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X	X	X	X	X						X	X	X	
SL-157-SA6-SS-0.0-0.5	7/20/11	0914	SOIL	NONE	1-SS Sleeve			X	X																	
SL-157-SA6-SS-0.0-0.5	7/20/11	0914	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-159-SA6-SS-0.0-0.5	7/20/11	0940	SOIL	NONE	1-SS Sleeve			X	X																	
SL-159-SA6-SS-0.0-0.5	7/20/11	0940	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-160-SA6-SS-0.0-0.5MS	7/20/11	0815	SOIL	NONE	2-SS Sleeve			X	X																	MS/MSD
SL-160-SA6-SS-0.0-0.5MS	7/20/11	0815	SOIL	NONE	4-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	MS/MSD
SL-162-SA6-SS-0.0-0.5	7/20/11	0951	SOIL	NONE	1-SS Sleeve			X	X																	
SL-162-SA6-SS-0.0-0.5	7/20/11	0951	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-164-SA6-SS-0.0-0.5	7/20/11	0857	SOIL	NONE	1-SS Sleeve			X	X																	
SL-164-SA6-SS-0.0-0.5	7/20/11	0857	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-165-SA6-SS-0.0-0.5	7/20/11	1024	SOIL	NONE	1-SS Sleeve			X	X																	
SL-165-SA6-SS-0.0-0.5	7/20/11	1024	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-167-SA6-SS-0.0-0.5	7/20/11	0814	SOIL	NONE	1-SS Sleeve			X	X																	
SL-167-SA6-SS-0.0-0.5	7/20/11	0814	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-215-SA6-SS-0.0-0.5	7/20/11	1339	SOIL	NONE	1-SS Sleeve			X	X							-										
SL-215-SA6-SS-0.0-0.5	7/20/11	1339	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-218-SA6-SS-0.0-0.5	7/20/11	1238	SOIL	NONE	1-SS Sleeve			X	X																	
SL-218-SA6-SS-0.0-0.5	7/20/11	1238	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
SL-220-SA6-SS-0.0-0.5	7/20/11	1319	SOIL	NONE	1-SS Sleeve			X	X																	
SL-220-SA6-SS-0.0-0.5	7/20/11	1319	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
SL-310-SA6-SS-0.0-0.5	7/20/11	1351	SOIL	NONE	1-SS Sleeve			X	X																	
SL-310-SA6-SS-0.0-0.5	7/20/11	1351	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
SL-321-SA6-SS-0.0-0.5	7/20/11	1010	SOIL	NONE	1-SS Sleeve			X	X																	
SL-321-SA6-SS-0.0-0.5	7/20/11	1010	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-322-SA6-SS-0.0-0.5	7/20/11	1052	SOIL	NONE	1-SS Sleeve			X	X																	
SL-322-SA6-SS-0.0-0.5	7/20/11	1052	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
DUP04-SA6-QC-072011	7/20/11	0815	SOIL	NONE	1-SS Sleeve			X	X																	
DUP04-SA6-QC-072011	7/20/11	0815	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	

Relinquished by: (Signature) — Date/Time: 07/20/2011 / 1600 — Received for Laboratory by: (Signature) 7/21/11 915

Received by: (Signature) — Date/Time — Airbill No.(s): 8754 3340 9711,9700,9696,9641

Laboratory: Lancaster Laboratories, Inc.

13013/1257478/6351944-58

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-086-SA6-SB-4.5	7/20/11	1436	SOIL	NONE	5-Encores										X	X	X										
SL-086-SA6-SB-4.0-5.0	7/20/11	1440	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-086-SA6-SB-9.5	7/20/11	1445	SOIL	NONE	1-Encore												X										
SL-086-SA6-SB-9.0-10.0	7/20/11	1450	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-097-SA6-SB-2.0	7/20/11	1400	SOIL	NONE	5-Encores										X	X	X										
SL-097-SA6-SB-1.5-2.5	7/20/11	1405	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
TB-072011	7/20/11		SOIL	NONE	4-40mL Vials										X	X	X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	
	07/20/2011 / 1600	7/21/11 915	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3340 9711,9700,9696,9641	

13013/125747&/635144-58

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
EB-SA6-SB-072011	07.20.11	1200	WATER	NONE	10-1 liter ambers			X	X	X							X			X	X		X			
EB-SA6-SB-072011	07.20.11	1200	WATER	NONE	1-500 mL poly		X				X	X	X													
EB-SA6-SB-072011	07.20.11	1200	WATER	HNO3	1-500 mL poly	X																				
EB-SA6-SB-072011	07.20.11	1200	WATER	NaOH	1-500 mL glass																	X				
EB-SA6-SB-072011	07.20.11	1200	WATER	NONE	1-250 mL glass													X								
EB-SA6-SB-072011	07.20.11	1200	WATER	HCl	11-40 mL vials																				X	
EB-SA6-SB-072011	07.20.11	1200	WATER	NONE	4-40 mL vials													X						X		

Relinquished by: (*Signature*) | **Date/Time** 07/20/2011 / 1600 | **Received for Laboratory by: (*Signature*)** UJ 7/21/11 915

Received by: (*Signature*) | **Date/Time** | **Airbill No.(s)** 8754 3340 9711,9700,9696,9641

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 24, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/22/2011
Group Number: 1257773
SDG: DE205
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-211-SA6-SS-0.0-0.5 Soil	6352971
SL-211-SA6-SS-0.0-0.5MS Soil	6352972
SL-211-SA6-SS-0.0-0.5MSD Soil	6352973
SL-211-SA6-SS-0.0-0.5DUP Soil	6352974
SL-214-SA6-SS-0.0-0.5 Soil	6352975
SL-216-SA6-SS-0.0-0.5 Soil	6352976
SL-219-SA6-SS-0.0-0.5 Soil	6352977

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Chad A. Moline
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-211-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6352971
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0501 SDG#: DE205-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(a)pyrene	50-32-8	19	J	17	170	1
04688	Benzo(b)fluoranthene	205-99-2	44	J	17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	20	J	17	170	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Fluoranthene	206-44-0	81	J	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	22	J	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-211-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6352971
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0501 SDG#: DE205-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenanthrene	85-01-8	62	J	17	170	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Pyrene	129-00-0	76	J	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	J	0.67	1.7	1
10138	Acenaphthylene	208-96-8	0.72	J	0.34	1.7	1
10138	Anthracene	120-12-7	3.2		0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	16		0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	15		0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18	1
10138	Di-n-butylphthalate	84-74-2	6.7	J	6.1	18	1
10138	Chrysene	218-01-9	40		0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	1.8		0.67	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	140		6.1	18	1
10138	Fluorene	86-73-7	0.83	J	0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.89	J	0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	1.2	J	0.67	1.7	1
10138	Naphthalene	91-20-3	1.7		0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	8.7	U	8.7	8.7	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	77	U	77	250	1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250	1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.17	1
10401	2,4,5-TP	93-72-1	0.74		0.076	0.17	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-211-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6352971
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0501 SDG#: DE205-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Reporting limits were raised for 2,4,5-T and 2,4-DB due to interference from the sample matrix.						
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.1	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.13	U	0.13	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.056	U	0.056	0.17	1
01363	Chlordane	57-74-9	3.1	J	0.81	3.4	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34	1
01363	p,p-DDE	72-55-9	1.2		0.067	0.34	1
01363	p,p-DDT	50-29-3	5.2		0.33	1.7	5
01363	Delta BHC	319-86-8	0.16	J	0.036	0.17	1
01363	Dieldrin	60-57-1	1.6	U	1.6	1.6	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.50	U	0.50	0.50	1
01363	Endosulfan Sulfate	1031-07-8	0.17	U	0.17	0.34	1
01363	Endrin	72-20-8	0.49	U	0.49	0.49	1
01363	Endrin Aldehyde	7421-93-4	0.77		0.067	0.34	1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34	1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.28		0.034	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.51	U	0.51	0.51	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17	5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17	5
10225	Aroclor 5460	11126-42-4	67		5.1	17	5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.6	5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6	5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6	5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6	5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6	5
10225	PCB-1254	11097-69-1	42		1.7	8.6	5
10225	PCB-1260	11096-82-5	32		2.0	8.6	5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6	5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6	5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,500		5.94	19.6	1
07914	Boron	7440-42-8	7.23		0.353	4.91	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-211-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6352971
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0501 SDG#: DE205-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	2,590		2.45	19.6	1
01654	Iron	7439-89-6	19,200		2.56	19.6	1
01656	Lithium	7439-93-2	20.0		0.61	2.0	1
01657	Magnesium	7439-95-4	4,230		0.432	9.82	1
06958	Manganese	7439-96-5	286		0.0353	0.491	1
10145	Phosphorus	7723-14-0	450		0.344	9.82	1
01662	Potassium	7440-09-7	3,810		11.1	49.1	1
01667	Sodium	7440-23-5	80.0	J	5.84	98.2	1
07968	Strontium	7440-24-6	23.0		0.0245	0.491	1
06969	Tin	7440-31-5	2.95	J	0.314	9.82	1
06970	Titanium	7440-32-6	1,030		0.0697	0.982	1
10146	Zirconium	7440-67-7	4.12	J	0.452	4.91	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.170	J	0.0748	0.202	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.00		0.0809	0.404	2
06126	Barium	7440-39-3	145		0.107	0.404	2
06127	Beryllium	7440-41-7	0.770		0.0162	0.101	2
06128	Cadmium	7440-43-9	0.761		0.0445	0.101	2
06131	Chromium	7440-47-3	27.0		0.121	0.404	2
06132	Cobalt	7440-48-4	7.23		0.0202	0.101	2
06133	Copper	7440-50-8	19.1		0.0809	0.404	2
06135	Lead	7439-92-1	40.2		0.0103	0.202	2
06138	Molybdenum	7439-98-7	0.750		0.0506	0.101	2
06139	Nickel	7440-02-0	21.7		0.101	0.404	2
06141	Selenium	7782-49-2	0.190	J	0.0586	0.404	2
06142	Silver	7440-22-4	1.19		0.0144	0.101	2
06145	Thallium	7440-28-0	0.395		0.0303	0.101	2
06148	Vanadium	7440-62-2	42.4		0.0222	0.101	2
06149	Zinc	7440-66-6	121		0.566	3.03	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0440	J	0.0068	0.0963	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.80	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.94	J	0.20	1.0	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-211-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6352971
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

E0501 SDG#: DE205-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.46	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	1.1	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11214SLK026	08/15/2011 07:32	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11213SLB026	08/05/2011 04:55	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11213SLB026	08/02/2011 08:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLK026	08/03/2011 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112130011A	08/04/2011 05:39	Anita M Dale	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112130022A	08/03/2011 21:18	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140011A	08/11/2011 10:41	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140011A	08/12/2011 18:23	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112140009A	08/04/2011 03:19	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112140011A	08/02/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112140009A	08/02/2011 16:20	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112130011A	08/01/2011 21:00	Elaine F Stoltzfus	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112130022A	08/02/2011 10:45	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112085708003	07/30/2011 11:27	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112085708003	07/30/2011 11:27	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112085708003	07/30/2011 11:27	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112085708003	07/30/2011 11:27	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112085708003	07/30/2011 11:27	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112085708003	07/30/2011 11:27	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112085708003	07/30/2011 11:27	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-211-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6352971
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0501 SDG#: DE205-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112085708003	07/30/2011 11:27	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112085708003	07/30/2011 11:27	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112085708003	07/30/2011 11:27	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112085708003	07/30/2011 11:27	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112085708003	07/30/2011 11:27	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112085708003	07/30/2011 11:27	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112085708003	07/30/2011 11:27	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112081026003A	07/29/2011 03:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112081026003A	07/29/2011 03:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112081026003D	07/29/2011 03:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112081026003A	07/29/2011 03:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112081026003A	07/29/2011 03:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112081026003A	07/29/2011 03:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112081026003A	07/29/2011 03:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112081026003A	07/29/2011 03:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112081026003A	07/29/2011 03:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112081026003C	07/29/2011 03:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112081026003A	07/29/2011 03:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112081026003B	07/29/2011 03:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112081026003A	07/29/2011 03:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112081026003A	07/29/2011 03:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112081026003A	07/29/2011 03:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112081026003A	07/29/2011 03:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112045711003	07/26/2011 10:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112085708003	07/28/2011 08:21	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112081026003	07/28/2011 08:34	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112045711003	07/25/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11214284201A	08/03/2011 18:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11210373202A	08/01/2011 03:12	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11221243201A	08/10/2011 15:04	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11214284201A	08/02/2011 17:50	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11210373202A	07/29/2011 16:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11214039402A	08/02/2011 08:36	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243201A	08/03/2011 09:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401B	07/25/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-211-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6352972
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0501 SDG#: DE205-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,300		17	170	1
04688	Acenaphthylene	208-96-8	1,400		17	170	1
04688	Aniline	62-53-3	500	J	170	510	1
04688	Anthracene	120-12-7	1,400		17	170	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(a)anthracene	56-55-3	1,300		17	170	1
04688	Benzo(a)pyrene	50-32-8	1,400		17	170	1
04688	Benzo(b)fluoranthene	205-99-2	1,300		17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	1,400		17	170	1
04688	Benzo(k)fluoranthene	207-08-9	1,500		17	170	1
04688	Benzoic acid	65-85-0	450	J	170	510	1
04688	Benzyl alcohol	100-51-6	1,200		170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	1,300		17	170	1
04688	Butylbenzylphthalate	85-68-7	1,500		17	170	1
04688	Di-n-butylphthalate	84-74-2	1,400		17	170	1
04688	Carbazole	86-74-8	1,300		17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	1,200		34	170	1
04688	4-Chloroaniline	106-47-8	440		67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,300		17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,200		17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,400		17	170	1
04688	2-Chloronaphthalene	91-58-7	1,200		17	170	1
04688	2-Chlorophenol	95-57-8	1,300		17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,200		34	170	1
04688	Chrysene	218-01-9	1,300		17	170	1
04688	Dibenz(a,h)anthracene	53-70-3	1,400		17	170	1
04688	Dibenzofuran	132-64-9	1,200		17	170	1
04688	1,2-Dichlorobenzene	95-50-1	1,100		17	170	1
04688	1,3-Dichlorobenzene	541-73-1	1,100		17	170	1
04688	1,4-Dichlorobenzene	106-46-7	1,100		17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	830		100	340	1
04688	2,4-Dichlorophenol	120-83-2	1,200		17	170	1
04688	Diethylphthalate	84-66-2	1,300		17	170	1
04688	2,4-Dimethylphenol	105-67-9	1,200		34	170	1
04688	3,5-Dimethylphenol	108-68-9	1,300		34	170	1
04688	Dimethylphthalate	131-11-3	1,300		17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	350	J	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	1,200		34	170	1
04688	2,6-Dinitrotoluene	606-20-2	1,300		17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	1,600		17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,600		17	340	1
04688	Fluoranthene	206-44-0	1,300		17	170	1
04688	Fluorene	86-73-7	1,300		17	170	1
04688	Hexachlorobenzene	118-74-1	1,200		17	170	1
04688	Hexachlorobutadiene	87-68-3	1,100		67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	760		170	510	1
04688	Hexachloroethane	67-72-1	900		17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,400		17	170	1
04688	Isophorone	78-59-1	1,200		17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-211-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6352972
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0501 SDG#: DE205-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,200	17	170	1
04688	2-Methylnaphthalene	91-57-6	1,200	17	170	1
04688	2-Methylphenol	95-48-7	1,300	34	170	1
04688	4-Methylphenol	106-44-5	1,100	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,200	17	170	1
04688	2-Nitroaniline	88-74-4	1,400	17	170	1
04688	3-Nitroaniline	99-09-2	1,300	34	170	1
04688	4-Nitroaniline	100-01-6	1,100	67	170	1
04688	Nitrobenzene	98-95-3	1,200	17	170	1
04688	2-Nitrophenol	88-75-5	1,100	17	170	1
04688	4-Nitrophenol	100-02-7	1,000	170	510	1
04688	N-Nitrosodimethylamine	62-75-9	1,100	34	170	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,100	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	1,500	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,600	17	170	1
04688	Pentachlorophenol	87-86-5	1,100	170	510	1
04688	Phenanthrene	85-01-8	1,400	17	170	1
04688	Phenol	108-95-2	1,300	17	170	1
04688	Pyrene	129-00-0	1,400	17	170	1
04688	Tetralin	119-64-2	1,400	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.					
04688	1,2,4-Trichlorobenzene	120-82-1	1,100	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	1,300	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	1,300	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	33	0.67	1.7	1
10138	Acenaphthylene	208-96-8	33	0.34	1.7	1
10138	Anthracene	120-12-7	38	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	60	0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	51	0.67	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	80	0.67	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	18	0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	60	0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	50	6.1	18	1
10138	Di-n-butylphthalate	84-74-2	45	6.1	18	1
10138	Chrysene	218-01-9	90	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	17	0.67	1.7	1
10138	Diethylphthalate	84-66-2	34	6.1	18	1
10138	Dimethylphthalate	131-11-3	36	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	280	6.1	18	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-211-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6352972
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0501 SDG#: DE205-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	150		0.67	1.7	1
10138	Fluorene	86-73-7	35		0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	23		0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	32		0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	31		0.67	1.7	1
10138	Naphthalene	91-20-3	31		0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	35		0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	51		6.1	18	1
10138	Phenanthrene	85-01-8	85		0.67	1.7	1
10138	Pyrene	129-00-0	140		0.67	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	6.0		1.2	3.6	1
10401	Dalapon	75-99-0	8.7	J	4.4	9.1	1
10401	2,4-DB	94-82-6	15		0.63	1.7	1
10401	Dicamba	1918-00-9	1.0	J	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	8.3		0.81	1.7	1
10401	MCPA	94-74-6	76	U	76	250	1
10401	MCPP (Mecoprop)	93-65-2	160	J	75	250	1
10401	2,4,5-T	93-76-5	0.43		0.083	0.17	1
10401	2,4,5-TP	93-72-1	0.90		0.076	0.17	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	120		2.1	5.1	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.22		0.067	0.17	1
01363	Alpha BHC	319-84-6	0.22		0.034	0.17	1
01363	Beta BHC	319-85-7	0.36		0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.38		0.034	0.17	1
01363	Chlordane	57-74-9	4.8		0.81	3.4	1
01363	p,p-DDD	72-54-8	1.1		0.067	0.34	1
01363	p,p-DDE	72-55-9	1.2		0.067	0.34	1
01363	p,p-DDT	50-29-3	6.1		0.067	0.34	1
01363	Delta BHC	319-86-8	0.39		0.036	0.17	1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34	1
01363	Endosulfan I	959-98-8	0.086	J	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.51		0.067	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34	1
01363	Endrin	72-20-8	0.067	U	0.067	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.80		0.067	0.34	1
01363	Endrin Ketone	53494-70-5	0.52		0.067	0.34	1
01363	Heptachlor	76-44-8	0.34		0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.49		0.034	0.17	1
01363	Methoxychlor	72-43-5	3.0		0.34	1.7	1
01363	Mirex	2385-85-5	0.40		0.067	0.34	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7	1

Various analytes in the calibration check standards bracketing the sample were

*=This limit was used in the evaluation of the final result

Sample Description: SL-211-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6352972
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0501 SDG#: DE205-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17	5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17	5
10225	Aroclor 5460	11126-42-4	5.1	U	5.1	17	5
10225	PCB-1016	12674-11-2	16		1.7	8.6	5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6	5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6	5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6	5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6	5
10225	PCB-1254	11097-69-1	6.0	J	1.7	8.6	5
10225	PCB-1260	11096-82-5	16		2.0	8.6	5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6	5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6	5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,500		5.88	19.4	1
07914	Boron	7440-42-8	191		0.350	4.86	1
01650	Calcium	7440-70-2	3,520		2.43	19.4	1
01654	Iron	7439-89-6	22,400		2.54	19.4	1
01656	Lithium	7439-93-2	125		0.60	1.9	1
01657	Magnesium	7439-95-4	5,150		0.428	9.72	1
06958	Manganese	7439-96-5	409		0.0350	0.486	1
10145	Phosphorus	7723-14-0	601		0.340	9.72	1
01662	Potassium	7440-09-7	5,650		11.0	48.6	1
01667	Sodium	7440-23-5	1,040		5.78	97.2	1
07968	Strontium	7440-24-6	120		0.0243	0.486	1
06969	Tin	7440-31-5	345		0.311	9.72	1
06970	Titanium	7440-32-6	1,380		0.0690	0.972	1
10146	Zirconium	7440-67-7	95.6		0.447	4.86	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.566		0.0741	0.200	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.76		0.0801	0.400	2
06126	Barium	7440-39-3	134		0.265	1.00	5
06127	Beryllium	7440-41-7	1.96		0.0160	0.100	2
06128	Cadmium	7440-43-9	2.32		0.0440	0.100	2
06131	Chromium	7440-47-3	45.6		0.120	0.400	2
06132	Cobalt	7440-48-4	74.6		0.0200	0.100	2
06133	Copper	7440-50-8	36.9		0.0801	0.400	2
06135	Lead	7439-92-1	51.4		0.0102	0.200	2
06138	Molybdenum	7439-98-7	14.0		0.0501	0.100	2
06139	Nickel	7440-02-0	41.8		0.100	0.400	2
06141	Selenium	7782-49-2	2.57		0.0581	0.400	2
06142	Silver	7440-22-4	15.0		0.0142	0.100	2
06145	Thallium	7440-28-0	0.940		0.0300	0.100	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-211-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6352972
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0501 SDG#: DE205-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06148	Vanadium	7440-62-2	66.4	0.0220	0.100	2
06149	Zinc	7440-66-6	167	0.561	3.00	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.239	0.0069	0.0984	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.5	0.81	1.0	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	520	9.1	30.3	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	21.1	1.0	5.1	5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	1.1	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11214SLK026	08/15/2011 07:57	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11213SLB026	08/05/2011 05:27	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11213SLB026	08/02/2011 08:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLK026	08/03/2011 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112130011A	08/04/2011 06:07	Anita M Dale	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112130022A	08/03/2011 21:24	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140011A	08/11/2011 10:55	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112140009A	08/04/2011 03:38	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112140011A	08/02/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112140009A	08/02/2011 16:20	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-211-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6352972
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0501 SDG#: DE205-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112130011A	08/01/2011 21:00	Elaine F Stoltzfus	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112130022A	08/02/2011 10:45	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112085708003	07/30/2011 11:38	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112085708003	07/30/2011 11:38	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112085708003	07/30/2011 11:38	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112085708003	07/30/2011 11:38	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112085708003	07/30/2011 11:38	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112085708003	07/30/2011 11:38	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112085708003	07/30/2011 11:38	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112085708003	07/30/2011 11:38	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112085708003	07/30/2011 11:38	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112085708003	07/30/2011 11:38	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112085708003	07/30/2011 11:38	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112085708003	07/30/2011 11:38	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112085708003	07/30/2011 11:38	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112085708003	07/30/2011 11:38	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112081026003A	07/29/2011 04:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112081026003A	07/29/2011 04:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112081026003D	07/29/2011 04:10	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	112081026003A	07/29/2011 04:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112081026003A	07/29/2011 04:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112081026003A	07/29/2011 04:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112081026003A	07/29/2011 04:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112081026003A	07/29/2011 04:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112081026003A	07/29/2011 04:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112081026003C	07/29/2011 04:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112081026003A	07/29/2011 04:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112081026003B	07/29/2011 04:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112081026003A	07/29/2011 04:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112081026003A	07/29/2011 04:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112081026003A	07/29/2011 04:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112081026003A	07/29/2011 04:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112045711003	07/26/2011 10:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112085708003	07/28/2011 08:21	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112081026003	07/28/2011 08:34	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112045711003	07/25/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11214284201A	08/03/2011 18:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11210373202A	08/01/2011 03:58	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11221243201A	08/10/2011 15:36	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11214284201A	08/02/2011 17:50	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11210373202A	07/29/2011 16:00	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-211-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6352972
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0501 SDG#: DE205-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243201A	08/03/2011 09:00	Michelle L Lalli	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401B	07/25/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-211-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6352973
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0501 SDG#: DE205-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		17	170	1
04688	Acenaphthylene	208-96-8	1,800		17	170	1
04688	Aniline	62-53-3	840		170	510	1
04688	Anthracene	120-12-7	1,700		17	170	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(a)anthracene	56-55-3	1,600		17	170	1
04688	Benzo(a)pyrene	50-32-8	1,700		17	170	1
04688	Benzo(b)fluoranthene	205-99-2	1,700		17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		17	170	1
04688	Benzo(k)fluoranthene	207-08-9	1,800		17	170	1
04688	Benzoic acid	65-85-0	310	J	170	510	1
04688	Benzyl alcohol	100-51-6	1,500		170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	1,600		17	170	1
04688	Butylbenzylphthalate	85-68-7	1,800		17	170	1
04688	Di-n-butylphthalate	84-74-2	1,700		17	170	1
04688	Carbazole	86-74-8	1,600		17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	1,500		34	170	1
04688	4-Chloroaniline	106-47-8	840		67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,900		17	170	1
04688	2-Chloronaphthalene	91-58-7	1,500		17	170	1
04688	2-Chlorophenol	95-57-8	1,600		17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,500		34	170	1
04688	Chrysene	218-01-9	1,600		17	170	1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		17	170	1
04688	Dibenzofuran	132-64-9	1,500		17	170	1
04688	1,2-Dichlorobenzene	95-50-1	1,500		17	170	1
04688	1,3-Dichlorobenzene	541-73-1	1,400		17	170	1
04688	1,4-Dichlorobenzene	106-46-7	1,500		17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,000		100	340	1
04688	2,4-Dichlorophenol	120-83-2	1,600		17	170	1
04688	Diethylphthalate	84-66-2	1,600		17	170	1
04688	2,4-Dimethylphenol	105-67-9	1,500		34	170	1
04688	3,5-Dimethylphenol	108-68-9	1,600		34	170	1
04688	Dimethylphthalate	131-11-3	1,600		17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	390	J	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	1,400		34	170	1
04688	2,6-Dinitrotoluene	606-20-2	1,600		17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,800		17	340	1
04688	Fluoranthene	206-44-0	1,900		17	170	1
04688	Fluorene	86-73-7	1,600		17	170	1
04688	Hexachlorobenzene	118-74-1	1,500		17	170	1
04688	Hexachlorobutadiene	87-68-3	1,400		67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	940		170	510	1
04688	Hexachloroethane	67-72-1	1,200		17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700		17	170	1
04688	Isophorone	78-59-1	1,600		17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-211-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6352973
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0501 SDG#: DE205-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,500		17	170	1
04688	2-Methylnaphthalene	91-57-6	1,600		17	170	1
04688	2-Methylphenol	95-48-7	1,600		34	170	1
04688	4-Methylphenol	106-44-5	1,500		34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600		17	170	1
04688	2-Nitroaniline	88-74-4	1,800		17	170	1
04688	3-Nitroaniline	99-09-2	1,600		34	170	1
04688	4-Nitroaniline	100-01-6	1,400		67	170	1
04688	Nitrobenzene	98-95-3	1,600		17	170	1
04688	2-Nitrophenol	88-75-5	1,500		17	170	1
04688	4-Nitrophenol	100-02-7	1,300		170	510	1
04688	N-Nitrosodimethylamine	62-75-9	1,500		34	170	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500		17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	1,800		17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,000		17	170	1
04688	Pentachlorophenol	87-86-5	1,100		170	510	1
04688	Phenanthrene	85-01-8	1,800		17	170	1
04688	Phenol	108-95-2	1,600		17	170	1
04688	Pyrene	129-00-0	2,000		17	170	1
04688	Tetralin	119-64-2	840		170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	1,500		17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	1,600		34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	1,600		34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	35		0.67	1.7	1
10138	Acenaphthylene	208-96-8	34		0.34	1.7	1
10138	Anthracene	120-12-7	43		0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	77		0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	67		0.67	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	100		0.67	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	24		0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	81		0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	53		6.1	18	1
10138	Di-n-butylphthalate	84-74-2	46		6.1	18	1
10138	Chrysene	218-01-9	120		0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	20		0.67	1.7	1
10138	Diethylphthalate	84-66-2	36		6.1	18	1
10138	Dimethylphthalate	131-11-3	37		6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	520	E	6.1	18	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-211-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6352973
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0501 SDG#: DE205-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	200		0.67	1.7	1
10138	Fluorene	86-73-7	37		0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	29		0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	33		0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	33		0.67	1.7	1
10138	Naphthalene	91-20-3	33		0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	38		0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	55		6.1	18	1
10138	Phenanthrene	85-01-8	120		0.67	1.7	1
10138	Pyrene	129-00-0	210		0.67	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	6.3		1.2	3.6	1
10401	Dalapon	75-99-0	9.2		4.4	9.1	1
10401	2,4-DB	94-82-6	11		0.63	1.7	1
10401	Dicamba	1918-00-9	1.2		0.40	1.2	1
10401	Dinoseb	88-85-7	1.0	J	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	8.6		0.81	1.7	1
10401	MCPA	94-74-6	230	J	76	250	1
10401	MCPP (Mecoprop)	93-65-2	210	J	75	250	1
10401	2,4,5-T	93-76-5	0.35		0.083	0.17	1
10401	2,4,5-TP	93-72-1	0.92		0.076	0.17	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	120		2.1	5.1	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.22		0.067	0.17	1
01363	Alpha BHC	319-84-6	0.23		0.034	0.17	1
01363	Beta BHC	319-85-7	0.34		0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.33		0.034	0.17	1
01363	Chlordane	57-74-9	4.8		0.81	3.4	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34	1
01363	p,p-DDE	72-55-9	1.4		0.067	0.34	1
01363	p,p-DDT	50-29-3	6.7		0.067	0.34	1
01363	Delta BHC	319-86-8	0.47		0.036	0.17	1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34	1
01363	Endosulfan I	959-98-8	0.078	J	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.56		0.067	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34	1
01363	Endrin	72-20-8	0.74		0.067	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.79		0.067	0.34	1
01363	Endrin Ketone	53494-70-5	0.51		0.067	0.34	1
01363	Heptachlor	76-44-8	0.30		0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.50		0.034	0.17	1
01363	Methoxychlor	72-43-5	2.9		0.34	1.7	1
01363	Mirex	2385-85-5	0.47		0.067	0.34	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7	1

Various analytes in the calibration check standards bracketing the sample were

*=This limit was used in the evaluation of the final result

Sample Description: SL-211-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6352973
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

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Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0501 SDG#: DE205-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17	5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17	5
10225	Aroclor 5460	11126-42-4	5.1	U	5.1	17	5
10225	PCB-1016	12674-11-2	17		1.7	8.6	5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6	5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6	5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6	5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6	5
10225	PCB-1254	11097-69-1	5.7	J	1.7	8.6	5
10225	PCB-1260	11096-82-5	16		2.0	8.6	5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6	5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6	5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,600		6.00	19.8	1
07914	Boron	7440-42-8	201		0.357	4.96	1
01650	Calcium	7440-70-2	3,470		2.48	19.8	1
01654	Iron	7439-89-6	22,800		2.59	19.8	1
01656	Lithium	7439-93-2	128		0.61	2.0	1
01657	Magnesium	7439-95-4	5,170		0.436	9.91	1
06958	Manganese	7439-96-5	388		0.0357	0.496	1
10145	Phosphorus	7723-14-0	612		0.347	9.91	1
01662	Potassium	7440-09-7	5,660		11.2	49.6	1
01667	Sodium	7440-23-5	1,090		5.90	99.1	1
07968	Strontium	7440-24-6	124		0.0248	0.496	1
06969	Tin	7440-31-5	357		0.317	9.91	1
06970	Titanium	7440-32-6	1,400		0.0704	0.991	1
10146	Zirconium	7440-67-7	99.4		0.456	4.96	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.685		0.0726	0.196	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.94		0.0785	0.393	2
06126	Barium	7440-39-3	126		0.260	0.982	5
06127	Beryllium	7440-41-7	2.00		0.0157	0.0982	2
06128	Cadmium	7440-43-9	2.14		0.0432	0.0982	2
06131	Chromium	7440-47-3	44.7		0.118	0.393	2
06132	Cobalt	7440-48-4	78.0		0.0196	0.0982	2
06133	Copper	7440-50-8	35.7		0.0785	0.393	2
06135	Lead	7439-92-1	41.0		0.0100	0.196	2
06138	Molybdenum	7439-98-7	14.5		0.0491	0.0982	2
06139	Nickel	7440-02-0	40.4		0.0982	0.393	2
06141	Selenium	7782-49-2	2.60		0.0569	0.393	2
06142	Silver	7440-22-4	15.3		0.0139	0.0982	2
06145	Thallium	7440-28-0	1.05		0.0295	0.0982	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-211-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6352973
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0501 SDG#: DE205-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06148	Vanadium	7440-62-2	64.6	0.0216	0.0982	2
06149	Zinc	7440-66-6	147	0.550	2.95	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.208	0.0068	0.0970	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	1.1	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11214SLK026	08/15/2011 08:22	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11213SLB026	08/05/2011 05:59	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11213SLB026	08/02/2011 08:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLK026	08/03/2011 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112130011A	08/04/2011 06:34	Anita M Dale	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112130022A	08/03/2011 21:31	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140011A	08/11/2011 11:10	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112140009A	08/04/2011 03:56	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112140011A	08/02/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112140009A	08/02/2011 16:20	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112130011A	08/01/2011 21:00	Elaine F Stoltzfus	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112130022A	08/02/2011 10:45	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112085708003	07/30/2011 11:42	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112085708003	07/30/2011 11:42	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112085708003	07/30/2011 11:42	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112085708003	07/30/2011 11:42	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112085708003	07/30/2011 11:42	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112085708003	07/30/2011 11:42	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112085708003	07/30/2011 11:42	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-211-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6352973
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0501 SDG#: DE205-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112085708003	07/30/2011 11:42	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112085708003	07/30/2011 11:42	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112085708003	07/30/2011 11:42	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112085708003	07/30/2011 11:42	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112085708003	07/30/2011 11:42	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112085708003	07/30/2011 11:42	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112085708003	07/30/2011 11:42	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112081026003A	07/29/2011 04:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112081026003A	07/29/2011 04:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112081026003D	07/29/2011 04:13	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	112081026003A	07/29/2011 04:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112081026003A	07/29/2011 04:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112081026003A	07/29/2011 04:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112081026003A	07/29/2011 04:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112081026003A	07/29/2011 04:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112081026003A	07/29/2011 04:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112081026003C	07/29/2011 04:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112081026003A	07/29/2011 04:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112081026003B	07/29/2011 04:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112081026003A	07/29/2011 04:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112081026003A	07/29/2011 04:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112081026003A	07/29/2011 04:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112081026003A	07/29/2011 04:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112045711003	07/26/2011 10:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112085708003	07/28/2011 08:21	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112081026003	07/28/2011 08:34	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112045711003	07/25/2011 02:00	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401B	07/25/2011 20:28	Scott W Freisher	1

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Analysis Report

Sample Description: SL-211-SA6-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6352974
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0501 SDG#: DE205-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,100		5.88	19.4	1
07914	Boron	7440-42-8	7.17		0.350	4.86	1
01650	Calcium	7440-70-2	2,670		2.43	19.4	1
01654	Iron	7439-89-6	20,800		2.54	19.4	1
01656	Lithium	7439-93-2	21.1		0.60	1.9	1
01657	Magnesium	7439-95-4	4,530		0.428	9.72	1
06958	Manganese	7439-96-5	323		0.0350	0.486	1
10145	Phosphorus	7723-14-0	481		0.340	9.72	1
01662	Potassium	7440-09-7	4,060		11.0	48.6	1
01667	Sodium	7440-23-5	84.9	J	5.78	97.2	1
07968	Strontium	7440-24-6	23.8		0.0243	0.486	1
06969	Tin	7440-31-5	2.90	J	0.311	9.72	1
06970	Titanium	7440-32-6	1,060		0.0690	0.972	1
10146	Zirconium	7440-67-7	5.61		0.447	4.86	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.200		0.0719	0.194	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.67		0.0778	0.389	2
06126	Barium	7440-39-3	169		0.103	0.389	2
06127	Beryllium	7440-41-7	0.911		0.0156	0.0972	2
06128	Cadmium	7440-43-9	0.912		0.0428	0.0972	2
06131	Chromium	7440-47-3	32.3		0.117	0.389	2
06132	Cobalt	7440-48-4	8.54		0.0194	0.0972	2
06133	Copper	7440-50-8	22.6		0.0778	0.389	2
06135	Lead	7439-92-1	43.5		0.0099	0.194	2
06138	Molybdenum	7439-98-7	0.935		0.0486	0.0972	2
06139	Nickel	7440-02-0	25.8		0.0972	0.389	2
06141	Selenium	7782-49-2	0.218	J	0.0564	0.389	2
06142	Silver	7440-22-4	1.36		0.0138	0.0972	2
06145	Thallium	7440-28-0	0.442		0.0292	0.0972	2
06148	Vanadium	7440-62-2	53.3		0.0214	0.0972	2
06149	Zinc	7440-66-6	143		0.544	2.92	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0323	J	0.0069	0.0985	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.81	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.78	J	0.20	1.0	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-211-SA6-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6352974
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0501 SDG#: DE205-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.58	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11626	28a Moisture Content by 160.3	n.a.	1.1	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
11625	Moisture Content by 160.3	n.a.	1.1	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112085708003	07/30/2011 11:34	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112085708003	07/30/2011 11:34	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112085708003	07/30/2011 11:34	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112085708003	07/30/2011 11:34	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112085708003	07/30/2011 11:34	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112085708003	07/30/2011 11:34	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112085708003	07/30/2011 11:34	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112085708003	07/30/2011 11:34	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112085708003	07/30/2011 11:34	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112085708003	07/30/2011 11:34	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112085708003	07/30/2011 11:34	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112085708003	07/30/2011 11:34	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112085708003	07/30/2011 11:34	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112085708003	07/30/2011 11:34	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112081026003A	07/29/2011 04:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112081026003A	07/29/2011 04:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112081026003D	07/29/2011 04:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112081026003A	07/29/2011 04:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112081026003A	07/29/2011 04:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112081026003A	07/29/2011 04:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112081026003A	07/29/2011 04:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112081026003A	07/29/2011 04:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112081026003A	07/29/2011 04:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112081026003C	07/29/2011 04:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112081026003A	07/29/2011 04:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112081026003B	07/29/2011 04:00	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-211-SA6-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6352974
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0501 SDG#: DE205-01DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112081026003A	07/29/2011 04:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112081026003A	07/29/2011 04:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112081026003A	07/29/2011 04:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112081026003A	07/29/2011 04:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112045711003	07/26/2011 10:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112085708003	07/28/2011 08:21	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112081026003	07/28/2011 08:34	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112045711003	07/25/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11214284201A	08/03/2011 18:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11210373202A	08/01/2011 03:35	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11221243201A	08/10/2011 16:27	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11214284201A	08/02/2011 17:50	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11210373202A	07/29/2011 16:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11214039402A	08/02/2011 08:36	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243201A	08/03/2011 09:00	Michelle L Lalli	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11206162401B	07/25/2011 20:28	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401B	07/25/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-214-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-214-SA6-SS-0.0-0.5

LLI Sample # SW 6352975
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:07

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0502 SDG#: DE205-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Acenaphthylene	208-96-8	32	J	17	170	1
04688	Aniline	62-53-3	170	U	170	510	1
04688	Anthracene	120-12-7	78	J	17	170	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(a)pyrene	50-32-8	130	J	17	170	1
04688	Benzo(b)fluoranthene	205-99-2	290		17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	99	J	17	170	1
04688	Benzo(k)fluoranthene	207-08-9	110	J	17	170	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Di-n-butylphthalate	84-74-2	220		17	170	1
04688	Carbazole	86-74-8	100	J	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenz(a,h)anthracene	53-70-3	30	J	17	170	1
04688	Dibenzofuran	132-64-9	22	J	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,100		17	340	1
04688	Fluorene	86-73-7	33	J	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	98	J	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1

3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result

Sample Description: SL-214-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-214-SA6-SS-0.0-0.5

LLI Sample # SW 6352975
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:07

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0502 SDG#: DE205-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	30	J	17	170	1
04688	Pentachlorophenol	87-86-5	410	J	170	510	1
04688	Phenanthrene	85-01-8	890		17	170	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	25		3.4	8.4	5
10138	Benzo(a)anthracene	56-55-3	300		3.4	8.4	5
10138	Butylbenzylphthalate	85-68-7	68	J	30	91	5
10138	Chrysene	218-01-9	500		1.7	8.4	5
10138	Fluoranthene	206-44-0	1,100		3.4	8.4	5
10138	1-Methylnaphthalene	90-12-0	20		3.4	8.4	5
10138	2-Methylnaphthalene	91-57-6	18		3.4	8.4	5
10138	Naphthalene	91-20-3	13		3.4	8.4	5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4	5
10138	Pyrene	129-00-0	990		3.4	8.4	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	6.9	U	6.9	6.9	1
10401	Dicamba	1918-00-9	1.5		0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	76	U	76	250	1
10401	MCPP (Mecoprop)	93-65-2	1,600		75	250	1
10401	2,4,5-T	93-76-5	0.34	U	0.34	0.34	1
10401	2,4,5-TP	93-72-1	0.29	U	0.29	0.29	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: SL-214-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-214-SA6-SS-0.0-0.5

LLI Sample # SW 6352975
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:07

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0502 SDG#: DE205-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported. MCPP was detected in the method blank. MCPP was not detected in the method blank associated with the reextraction. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that MCPP and dicamba were not detected in the reextract. Reporting limits were raised for 2,4,5-TP, 2,4,5-T, and 2,4-DB due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	1.2	U	1.2	3.4	20
01363	Gamma BHC - Lindane	58-89-9	0.52	U	0.52	0.52	1
01363	Chlordane	57-74-9	33	J	16	69	20
01363	p,p-DDD	72-54-8	12	U	12	12	20
01363	p,p-DDE	72-55-9	110		17	86	250
01363	p,p-DDT	50-29-3	170		17	86	250
01363	Delta BHC	319-86-8	0.66		0.036	0.17	1
01363	Dieldrin	60-57-1	26	U	26	26	20
01363	Endosulfan I	959-98-8	0.89	U	0.89	3.4	20
01363	Endosulfan II	33213-65-9	4.2	U	4.2	6.9	20
01363	Endosulfan Sulfate	1031-07-8	1.3	U	1.3	6.9	20
01363	Endrin	72-20-8	1.3	U	1.3	6.9	20
01363	Endrin Aldehyde	7421-93-4	5.9	U	5.9	6.9	20
01363	Endrin Ketone	53494-70-5	1.3	U	1.3	6.9	20
01363	Heptachlor	76-44-8	0.34		0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	6.5	U	6.5	6.5	20
01363	Methoxychlor	72-43-5	6.9	U	6.9	34	20
01363	Mirex	2385-85-5	3.4	U	3.4	6.9	20
01363	Toxaphene	8001-35-2	45	U	45	130	20
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	51	U	51	170	50
10225	Aroclor 5442	12642-23-8	51	U	51	170	50
10225	Aroclor 5460	11126-42-4	120	J	51	170	50
10225	PCB-1016	12674-11-2	17	U	17	86	50
10225	PCB-1221	11104-28-2	17	U	17	86	50
10225	PCB-1232	11141-16-5	17	U	17	86	50
10225	PCB-1242	53469-21-9	17	U	17	86	50
10225	PCB-1248	12672-29-6	17	U	17	86	50
10225	PCB-1254	11097-69-1	120		17	86	50
10225	PCB-1260	11096-82-5	45	J	20	86	50
10225	PCB-1262	37324-23-5	17	U	17	86	50

*=This limit was used in the evaluation of the final result

Sample Description: SL-214-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-214-SA6-SS-0.0-0.5

LLI Sample # SW 6352975
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:07

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0502 SDG#: DE205-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	17	U	17	86	50
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,100		6.13	20.3	1
07914	Boron	7440-42-8	6.31		0.365	5.07	1
01650	Calcium	7440-70-2	2,300		2.53	20.3	1
01654	Iron	7439-89-6	19,700		2.64	20.3	1
01656	Lithium	7439-93-2	18.8		0.63	2.0	1
01657	Magnesium	7439-95-4	4,090		0.446	10.1	1
06958	Manganese	7439-96-5	246		0.0365	0.507	1
10145	Phosphorus	7723-14-0	434		0.355	10.1	1
01662	Potassium	7440-09-7	2,930		11.4	50.7	1
01667	Sodium	7440-23-5	85.6	J	6.03	101	1
07968	Strontium	7440-24-6	16.0		0.0253	0.507	1
06969	Tin	7440-31-5	3.31	J	0.324	10.1	1
06970	Titanium	7440-32-6	926		0.0719	1.01	1
10146	Zirconium	7440-67-7	3.73	J	0.466	5.07	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.540		0.0735	0.199	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.34		0.0795	0.397	2
06126	Barium	7440-39-3	137		0.105	0.397	2
06127	Beryllium	7440-41-7	0.762		0.0159	0.0993	2
06128	Cadmium	7440-43-9	3.64		0.0437	0.0993	2
06131	Chromium	7440-47-3	45.6		0.119	0.397	2
06132	Cobalt	7440-48-4	14.0		0.0199	0.0993	2
06133	Copper	7440-50-8	54.4		0.0795	0.397	2
06135	Lead	7439-92-1	188		0.0507	0.993	10
06138	Molybdenum	7439-98-7	2.07		0.0497	0.0993	2
06139	Nickel	7440-02-0	44.2		0.0993	0.397	2
06141	Selenium	7782-49-2	0.173	J	0.0576	0.397	2
06142	Silver	7440-22-4	3.49		0.0141	0.0993	2
06145	Thallium	7440-28-0	0.307		0.0298	0.0993	2
06148	Vanadium	7440-62-2	47.1		0.0219	0.0993	2
06149	Zinc	7440-66-6	319		2.78	14.9	10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.244		0.0069	0.0984	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.81	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-214-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-214-SA6-SS-0.0-0.5

LLI Sample # SW 6352975
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:07

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0502 SDG#: DE205-02

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	2.0	0.20	1.0	1
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	5.87	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	1.3	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11214SLK026	08/15/2011 08:47	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11213SLB026	08/05/2011 06:31	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11213SLB026	08/02/2011 08:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLK026	08/03/2011 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112130011A	08/04/2011 07:02	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140011A	08/11/2011 11:38	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140011A	08/12/2011 20:43	Melissa McDermott	20
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140011A	08/18/2011 08:49	Melissa McDermott	250
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112140009A	08/04/2011 04:15	Sarah M Snyder	50
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112140011A	08/02/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112140009A	08/02/2011 16:20	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112130011A	08/01/2011 21:00	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112085708003	07/30/2011 11:49	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112085708003	07/30/2011 11:49	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112085708003	07/30/2011 11:49	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112085708003	07/30/2011 11:49	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112085708003	07/30/2011 11:49	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112085708003	07/30/2011 11:49	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-214-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-214-SA6-SS-0.0-0.5

LLI Sample # SW 6352975
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:07

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0502 SDG#: DE205-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	112085708003	07/30/2011 11:49	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112085708003	07/30/2011 11:49	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112085708003	07/30/2011 11:49	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112085708003	07/30/2011 11:49	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112085708003	07/30/2011 11:49	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112085708003	07/30/2011 11:49	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112085708003	07/30/2011 11:49	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112085708003	07/30/2011 11:49	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112081026003A	07/29/2011 04:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112081026003A	07/29/2011 04:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112081026003D	07/29/2011 04:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112081026003A	07/29/2011 04:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112081026003A	07/29/2011 04:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112081026003A	07/29/2011 04:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112081026003A	07/29/2011 04:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112081026003A	07/29/2011 04:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112081026003A	07/29/2011 04:35	Choon Y Tian	10
06138	Molybdenum	SW-846 6020	1	112081026003C	07/29/2011 04:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112081026003A	07/29/2011 04:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112081026003B	07/29/2011 04:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112081026003A	07/29/2011 04:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112081026003A	07/29/2011 04:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112081026003A	07/29/2011 04:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112081026003A	07/29/2011 04:35	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	112045711003	07/26/2011 10:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112085708003	07/28/2011 08:21	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112081026003	07/28/2011 08:34	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112045711003	07/25/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11214284201A	08/03/2011 18:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11210373202A	08/01/2011 04:21	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11221243201A	08/10/2011 16:34	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11214284201A	08/02/2011 17:50	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11210373202A	07/29/2011 16:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11214039402A	08/02/2011 08:36	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243201A	08/03/2011 09:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401B	07/25/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-216-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-216-SA6-SS-0.0-0.5

LLI Sample # SW 6352976
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:49

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0503 SDG#: DE205-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(g,h,i)perylene	191-24-2	22	J	17	170	1
04688	Benzoic acid	65-85-0	170	U	170	500	1
04688	Benzyl alcohol	100-51-6	170	U	170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Di-n-butylphthalate	84-74-2	23	J	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	140	J	17	340	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	17	J	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	500	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-216-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-216-SA6-SS-0.0-0.5

LLI Sample # SW 6352976
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:49

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0503 SDG#: DE205-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	J	170	500	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	2.6		0.67	1.7	1
10138	Acenaphthylene	208-96-8	0.83	J	0.34	1.7	1
10138	Anthracene	120-12-7	5.7		0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	34		0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	32		0.67	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	66		0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	26		0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	7.2	J	6.1	18	1
10138	Chrysene	218-01-9	54		0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	2.4		0.67	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Fluoranthene	206-44-0	83		0.67	1.7	1
10138	Fluorene	86-73-7	1.3	J	0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	1.1	J	0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	1.4	J	0.67	1.7	1
10138	Naphthalene	91-20-3	1.8		0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18	1
10138	Phenanthrene	85-01-8	33		0.67	1.7	1
10138	Pyrene	129-00-0	91		0.67	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	6.7	U	6.7	6.7	1
10401	Dicamba	1918-00-9	0.99	J	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	77	U	77	250	1
10401	MCPP (Mecoprop)	93-65-2	2,000		76	250	1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17	1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: SL-216-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-216-SA6-SS-0.0-0.5

LLI Sample # SW 6352976
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:49

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0503 SDG#: DE205-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported. MCPP was detected in the method blank. MCPP was not detected in the method blank associated with the reextraction. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. MCPP was not detected in the reextract. Reporting limits were raised for 2,4-DB due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.23		0.034	0.17	1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34	1
01363	p,p-DDE	72-55-9	9.8		0.67	3.4	10
01363	p,p-DDT	50-29-3	15		0.67	3.4	10
01363	Delta BHC	319-86-8	0.25		0.036	0.17	1
01363	Dieldrin	60-57-1	2.3	U	2.3	2.3	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.55	U	0.55	0.55	1
01363	Endosulfan Sulfate	1031-07-8	0.18	U	0.18	0.34	1
01363	Endrin	72-20-8	0.43	U	0.43	0.43	1
01363	Endrin Aldehyde	7421-93-4	0.72		0.067	0.34	1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34	1
01363	Heptachlor	76-44-8	0.078	J	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.37		0.034	0.17	1
01363	Methoxychlor	72-43-5	0.38	J	0.34	1.7	1
01363	Mirex	2385-85-5	0.68	U	0.68	0.68	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.0	U	5.0	17	5
10225	Aroclor 5442	12642-23-8	5.0	U	5.0	17	5
10225	Aroclor 5460	11126-42-4	40		5.0	17	5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.6	5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6	5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6	5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6	5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6	5
10225	PCB-1254	11097-69-1	29		1.7	8.6	5
10225	PCB-1260	11096-82-5	20		2.0	8.6	5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6	5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6	5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-216-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-216-SA6-SS-0.0-0.5

LLI Sample # SW 6352976
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:49

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0503 SDG#: DE205-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500	1
10501	Isopropanol	67-63-0	100	U	100	500	1
10501	Methanol	67-56-1	100	U	100	500	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10	1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10	1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2	1
10199	EFH (C15-C20)	n.a.	3.4		0.40	1.2	1
10199	EFH (C21-C30)	n.a.	21		0.40	1.2	1
10199	EFH (C30 - C40)	n.a.	38		0.40	1.2	1
10199	EFH (C8-C11)	n.a.	0.67	J	0.40	1.2	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,700		5.93	19.6	1
07914	Boron	7440-42-8	7.80		0.353	4.90	1
01650	Calcium	7440-70-2	2,670		2.45	19.6	1
01654	Iron	7439-89-6	24,300		2.56	19.6	1
01656	Lithium	7439-93-2	22.4		0.61	2.0	1
01657	Magnesium	7439-95-4	4,730		0.431	9.80	1
06958	Manganese	7439-96-5	349		0.0353	0.490	1
10145	Phosphorus	7723-14-0	660		0.343	9.80	1
01662	Potassium	7440-09-7	4,370		11.1	49.0	1
01667	Sodium	7440-23-5	72.4	J	5.83	98.0	1
07968	Strontium	7440-24-6	19.4		0.0245	0.490	1
06969	Tin	7440-31-5	3.31	J	0.313	9.80	1
06970	Titanium	7440-32-6	1,040		0.0696	0.980	1
10146	Zirconium	7440-67-7	3.60	J	0.451	4.90	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.178	J	0.0747	0.202	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.23		0.0807	0.404	2
06126	Barium	7440-39-3	152		0.107	0.404	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-216-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-216-SA6-SS-0.0-0.5

LLI Sample # SW 6352976
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:49

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0503 SDG#: DE205-03

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06127	Beryllium		7440-41-7	0.789		0.0161	0.101	2
06128	Cadmium		7440-43-9	1.59		0.0444	0.101	2
06131	Chromium		7440-47-3	30.7		0.121	0.404	2
06132	Cobalt		7440-48-4	8.89		0.0202	0.101	2
06133	Copper		7440-50-8	25.5		0.0807	0.404	2
06135	Lead		7439-92-1	27.8		0.0103	0.202	2
06138	Molybdenum		7439-98-7	0.917		0.0504	0.101	2
06139	Nickel		7440-02-0	26.8		0.101	0.404	2
06141	Selenium		7782-49-2	0.175	J	0.0585	0.404	2
06142	Silver		7440-22-4	0.536		0.0143	0.101	2
06145	Thallium		7440-28-0	0.355		0.0303	0.101	2
06148	Vanadium		7440-62-2	46.9		0.0222	0.101	2
06149	Zinc		7440-66-6	132		0.565	3.03	2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0435	J	0.0067	0.0946	1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	1.2		0.80	1.0	1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.1	U	9.1	30.3	1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.83	J	0.20	1.0	1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.55		0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3		n.a.	0.89		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-216-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-216-SA6-SS-0.0-0.5

LLI Sample # SW 6352976
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:49

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0503 SDG#: DE205-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11214SLK026	08/15/2011 16:56	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11213SLB026	08/05/2011 07:03	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11213SLB026	08/02/2011 08:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLK026	08/03/2011 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112130011A	08/04/2011 07:29	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140011A	08/11/2011 11:24	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140011A	08/17/2011 00:53	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112140009A	08/04/2011 04:33	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112140011A	08/02/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112140009A	08/02/2011 16:20	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112130011A	08/01/2011 21:00	Elaine F Stoltzfus	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112080024A	07/28/2011 18:39	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112040001A	07/23/2011 09:26	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112140032A	08/04/2011 18:17	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112080002A	07/28/2011 05:48	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112080002A	07/27/2011 09:55	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112140032A	08/03/2011 06:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112080024A	07/28/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112040001A	07/23/2011 06:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112085708003	07/30/2011 12:00	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112085708003	07/30/2011 12:00	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112085708003	07/30/2011 12:00	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112085708003	07/30/2011 12:00	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112085708003	07/30/2011 12:00	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112085708003	07/30/2011 12:00	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112085708003	07/30/2011 12:00	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112085708003	07/30/2011 12:00	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112085708003	07/30/2011 12:00	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112085708003	07/30/2011 12:00	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112085708003	07/30/2011 12:00	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112085708003	07/30/2011 12:00	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112085708003	07/30/2011 12:00	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112085708003	07/30/2011 12:00	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112081026003A	07/29/2011 04:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112081026003A	07/29/2011 04:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112081026003D	07/29/2011 04:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112081026003A	07/29/2011 04:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112081026003A	07/29/2011 04:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112081026003A	07/29/2011 04:29	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-216-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-216-SA6-SS-0.0-0.5

LLI Sample # SW 6352976
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:49

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0503 SDG#: DE205-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	112081026003A	07/29/2011 04:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112081026003A	07/29/2011 04:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112081026003A	07/29/2011 04:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112081026003C	07/29/2011 04:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112081026003A	07/29/2011 04:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112081026003B	07/29/2011 04:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112081026003A	07/29/2011 04:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112081026003A	07/29/2011 04:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112081026003A	07/29/2011 04:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112081026003A	07/29/2011 04:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112045711003	07/26/2011 10:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112085708003	07/28/2011 08:21	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112081026003	07/28/2011 08:34	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112045711003	07/25/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11214284201A	08/03/2011 19:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11210373202A	08/02/2011 02:50	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11221243201A	08/10/2011 16:48	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11214284201A	08/02/2011 17:50	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11210373202A	07/29/2011 16:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11214039402A	08/02/2011 08:36	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243201A	08/03/2011 09:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401B	07/25/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-219-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-219-SA6-SS-0.0-0.5

LLI Sample # SW 6352977
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:25

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0504 SDG#: DE205-04*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(g,h,i)perylene	191-24-2	20	J	17	170	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Di-n-butylphthalate	84-74-2	24	J	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	17	340	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

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Sample Description: SL-219-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-219-SA6-SS-0.0-0.5

LLI Sample # SW 6352977
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:25

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0504 SDG#: DE205-04*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	1.5	J	0.67	1.7	1
10138	Acenaphthylene	208-96-8	0.36	J	0.34	1.7	1
10138	Anthracene	120-12-7	5.0		0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	39		0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	28		0.67	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	51		0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	27		0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18	1
10138	Chrysene	218-01-9	57		0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	1.8		0.67	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Fluoranthene	206-44-0	78		0.67	1.7	1
10138	Fluorene	86-73-7	0.84	J	0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	5.6		0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7	1
10138	Naphthalene	91-20-3	0.99	J	0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18	1
10138	Phenanthrene	85-01-8	23		0.67	1.7	1
10138	Pyrene	129-00-0	97		0.67	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0	1
10401	2,4-DB	94-82-6	15		0.62	1.7	1
10401	Dicamba	1918-00-9	1.6		0.40	1.2	1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7	1
10401	MCPA	94-74-6	1,800		76	250	1
10401	MCPP (Mecoprop)	93-65-2	1,500		75	250	1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17	1
10401	2,4,5-TP	93-72-1	0.32	U	0.32	0.32	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does						

*=This limit was used in the evaluation of the final result

Sample Description: SL-219-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-219-SA6-SS-0.0-0.5

LLI Sample # SW 6352977
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:25

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0504 SDG#: DE205-04*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. MCPP was detected in the method blank. MCPP was not detected in the method blank associated with the reextraction. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Dicamba, MCPP, MCPA and 2,4-DB were not detected in the reextract. Reporting limits were raised for 2,4,5-TP due to interference from the sample matrix.						
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.6	J	2.1	5.1	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.37		0.034	0.17	1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4	1
01363	p,p-DDD	72-54-8	0.15	U	0.15	0.34	1
01363	p,p-DDE	72-55-9	0.35		0.067	0.34	1
01363	p,p-DDT	50-29-3	1.8	U	1.8	1.8	1
01363	Delta BHC	319-86-8	0.11	U	0.11	0.17	1
01363	Dieldrin	60-57-1	0.27	U	0.27	0.34	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.22	J	0.067	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34	1
01363	Endrin	72-20-8	0.13	U	0.13	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.39		0.067	0.34	1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34	1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.29	U	0.29	0.34	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that gamma-BHC and 4,4-DDE were not detected in the reextract. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	10	U	10	33	10
10225	Aroclor 5442	12642-23-8	10	U	10	33	10
10225	Aroclor 5460	11126-42-4	10	U	10	33	10
10225	PCB-1016	12674-11-2	3.3	U	3.3	17	10
10225	PCB-1221	11104-28-2	3.3	U	3.3	17	10
10225	PCB-1232	11141-16-5	3.3	U	3.3	17	10

*=This limit was used in the evaluation of the final result

Sample Description: SL-219-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-219-SA6-SS-0.0-0.5

LLI Sample # SW 6352977
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:25

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0504 SDG#: DE205-04*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1242	53469-21-9	3.3	U	3.3	17	10
10225	PCB-1248	12672-29-6	3.3	U	3.3	17	10
10225	PCB-1254	11097-69-1	14	J	3.3	17	10
10225	PCB-1260	11096-82-5	3.9	U	3.9	17	10
10225	PCB-1262	37324-23-5	3.3	U	3.3	17	10
10225	PCB-1268	11100-14-4	3.3	U	3.3	17	10
Reporting limits were raised due to interference from the sample matrix.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510	1
10501	Isopropanol	67-63-0	100	U	100	510	1
10501	Methanol	67-56-1	100	U	100	510	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10	1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10	1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2	1
10199	EFH (C15-C20)	n.a.	3.1		0.40	1.2	1
10199	EFH (C21-C30)	n.a.	14		0.40	1.2	1
10199	EFH (C30 - C40)	n.a.	27		0.40	1.2	1
10199	EFH (C8-C11)	n.a.	0.88	J	0.40	1.2	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,200		6.12	20.2	1
07914	Boron	7440-42-8	7.99		0.364	5.06	1
01650	Calcium	7440-70-2	2,340		2.53	20.2	1
01654	Iron	7439-89-6	20,100		2.64	20.2	1
01656	Lithium	7439-93-2	21.4		0.63	2.0	1
01657	Magnesium	7439-95-4	4,350		0.445	10.1	1
06958	Manganese	7439-96-5	298		0.0364	0.506	1
10145	Phosphorus	7723-14-0	531		0.354	10.1	1
01662	Potassium	7440-09-7	4,140		11.4	50.6	1
01667	Sodium	7440-23-5	57.3	J	6.02	101	1
07968	Strontium	7440-24-6	14.5		0.0253	0.506	1
06969	Tin	7440-31-5	2.84	J	0.324	10.1	1
06970	Titanium	7440-32-6	974		0.0718	1.01	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-219-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-219-SA6-SS-0.0-0.5

LLI Sample # SW 6352977
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:25

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0504 SDG#: DE205-04*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	3.19	J	0.465	5.06	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.106	J	0.0734	0.198	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.18		0.0793	0.397	2
06126	Barium	7440-39-3	127		0.105	0.397	2
06127	Beryllium	7440-41-7	0.679		0.0159	0.0991	2
06128	Cadmium	7440-43-9	0.678		0.0436	0.0991	2
06131	Chromium	7440-47-3	25.0		0.119	0.397	2
06132	Cobalt	7440-48-4	7.56		0.0198	0.0991	2
06133	Copper	7440-50-8	17.8		0.0793	0.397	2
06135	Lead	7439-92-1	11.0		0.0101	0.198	2
06138	Molybdenum	7439-98-7	0.815		0.0496	0.0991	2
06139	Nickel	7440-02-0	18.3		0.0991	0.397	2
06141	Selenium	7782-49-2	0.166	J	0.0575	0.397	2
06142	Silver	7440-22-4	0.153		0.0141	0.0991	2
06145	Thallium	7440-28-0	0.313		0.0297	0.0991	2
06148	Vanadium	7440-62-2	41.7		0.0218	0.0991	2
06149	Zinc	7440-66-6	89.8		0.555	2.97	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.51	J	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.32		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.1		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-219-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-219-SA6-SS-0.0-0.5

LLI Sample # SW 6352977
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:25

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0504 SDG#: DE205-04*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11214SLK026	08/15/2011 17:21	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11213SLB026	08/05/2011 07:34	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11213SLB026	08/02/2011 08:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLK026	08/03/2011 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112130011A	08/04/2011 07:57	Anita M Dale	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112130022A	08/03/2011 21:37	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140011A	08/11/2011 10:27	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112140009A	08/05/2011 15:07	Sarah M Snyder	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112140011A	08/02/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112140009A	08/02/2011 16:20	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112130011A	08/01/2011 21:00	Elaine F Stoltzfus	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112130022A	08/02/2011 10:45	Maria Davenport	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	112080024A	07/28/2011 18:54	Elizabeth J Marin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	112040001A	07/23/2011 09:39	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	112140032A	08/04/2011 16:49	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112080002A	07/28/2011 05:23	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112080002A	07/27/2011 09:55	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112140032A	08/03/2011 06:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112080024A	07/28/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112040001A	07/23/2011 06:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112085708003	07/30/2011 12:04	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112085708003	07/30/2011 12:04	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112085708003	07/30/2011 12:04	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112085708003	07/30/2011 12:04	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112085708003	07/30/2011 12:04	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112085708003	07/30/2011 12:04	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112085708003	07/30/2011 12:04	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112085708003	07/30/2011 12:04	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112085708003	07/30/2011 12:04	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112085708003	07/30/2011 12:04	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-219-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-219-SA6-SS-0.0-0.5

LLI Sample # SW 6352977
LLI Group # 1257773
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:25

Submitted: 07/22/2011 10:10
Reported: 08/24/2011 14:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0504 SDG#: DE205-04*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112085708003	07/30/2011 12:04	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112085708003	07/30/2011 12:04	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112085708003	07/30/2011 12:04	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112085708003	07/30/2011 12:04	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112081026003A	07/29/2011 04:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112081026003A	07/29/2011 04:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112081026003D	07/29/2011 04:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112081026003A	07/29/2011 04:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112081026003A	07/29/2011 04:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112081026003A	07/29/2011 04:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112081026003A	07/29/2011 04:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112081026003A	07/29/2011 04:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112081026003A	07/29/2011 04:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112081026003C	07/29/2011 04:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112081026003A	07/29/2011 04:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112081026003B	07/29/2011 04:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112081026003A	07/29/2011 04:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112081026003A	07/29/2011 04:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112081026003A	07/29/2011 04:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112081026003A	07/29/2011 04:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112045711003	07/26/2011 10:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112085708003	07/28/2011 08:21	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112081026003	07/28/2011 08:34	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112045711003	07/25/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11214284201A	08/03/2011 19:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11210373202A	08/02/2011 03:13	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11221243201A	08/10/2011 17:17	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11214284201A	08/02/2011 17:50	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11210373202A	07/29/2011 16:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11214039402A	08/02/2011 08:36	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243201A	08/03/2011 09:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401B	07/25/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257773
Reported: 08/24/11 at 02:33 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11213SLB026	Sample number(s): 6352971-6352973,6352975-6352977									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	98		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	93		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	97		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	101		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	84		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	95		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	80		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	87		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	109		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	117		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	103		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	80		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	110		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	106		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	104		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	103		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	101		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	80		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	90		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	93		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	106		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	87		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	97		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	97		72-119		
Batch number: 11214SLK026	Sample number(s): 6352971-6352973,6352975-6352977									
Acenaphthene	17	U	17.	170	ug/kg	98		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	106		75-122		
Aniline	170 U		170.	500	ug/kg	81		20-115		
Anthracene	17	U	17.	170	ug/kg	105		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	39		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	89		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	103		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	106		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	93		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	106		67-125		
Benzoic acid	170 U		170.	500	ug/kg	85		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	104		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	90		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	102		75-115		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257773
Reported: 08/24/11 at 02:33 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Di-n-butylphthalate	17	U	17.	170	ug/kg	102		79-112		
Carbazole	17	U	17.	170	ug/kg	101		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	95		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	33		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	103		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	103		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	119*		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	94		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	109		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	89		74-115		
Chrysene	17	U	17.	170	ug/kg	91		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	96		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	95		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	93		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	91		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	92		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	52		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	101		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	95		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	99		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	103		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	97		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	89		46-120		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	83		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	95		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	96		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	109		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	100		75-117		
Fluoranthene	17	U	17.	170	ug/kg	98		78-116		
Fluorene	17	U	17.	170	ug/kg	100		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	89		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	81		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	82		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	88		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	93		64-119		
Isophorone	17	U	17.	170	ug/kg	98		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	95		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	97		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	110		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	101		66-117		
Naphthalene	17	U	17.	170	ug/kg	95		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	102		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	94		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	76		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	95		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	97		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	76		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	99		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	104		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	107		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	125		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	76		51-117		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257773
Reported: 08/24/11 at 02:33 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phenanthrene	17	U	17.	170	ug/kg	102		77-113		
Phenol	17	U	17.	170	ug/kg	109		58-112		
Pyrene	17	U	17.	170	ug/kg	103		75-115		
Tetralin	170	U	170.	170	ug/kg	113		70-130		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	88		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	94		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	96		78-111		
Batch number: 112130011A	Sample number(s): 6352971-6352973,6352975-6352977									
2,4-D	1.2	U	1.2	3.6	ug/kg	92		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	58		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	87		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	61		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	6*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	126		62-170		
MCPA	76	U	76.	250	ug/kg	94		60-130		
MCPP (Mecoprop)	210	J	75.	250	ug/kg	88		54-137		
2,4,5-T	0.082	J	0.082	0.17	ug/kg	88		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	80		68-114		
Batch number: 112130022A	Sample number(s): 6352971-6352973,6352977									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	114		85-115		
Batch number: 112140009A	Sample number(s): 6352971-6352973,6352975-6352977									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	62	69	36-106	11	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	91		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	97		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112140011A	Sample number(s): 6352971-6352973,6352975-6352977									
Aldrin	0.066	U	0.066	0.17	ug/kg	73		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	76		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	91		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	82		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	93		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	88		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	83		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	94		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	85		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	85		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	109		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	97		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	85		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	83		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	98		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	79		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	88		65-131		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257773
Reported: 08/24/11 at 02:33 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methoxychlor	0.34	U	0.34	1.7	ug/kg	90		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112040001A	Sample number(s): 6352976-6352977									
Diethylene glycol	5.0	U	5.0	10	mg/kg	86		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	85		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	80		75-125		
Batch number: 112080024A	Sample number(s): 6352976-6352977									
Ethanol	100 U		100.	500	ug/kg	92		71-129		
Isopropanol	100 U		100.	500	ug/kg	92		75-125		
Methanol	100 U		100.	500	ug/kg	85		68-129		
Batch number: 112080002A	Sample number(s): 6352976-6352977									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	99		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	105		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	109		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	105		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	82		54-107		
Batch number: 112140032A	Sample number(s): 6352976-6352977									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	85		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	102		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
Batch number: 112045711003	Sample number(s): 6352971-6352977									
Mercury	0.0064	U	0.0064	0.0905	mg/kg	121		72-128		
Batch number: 112081026003A	Sample number(s): 6352971-6352977									
Antimony	0.0718	U	0.0718	0.194	mg/kg	61		40-224		
Arsenic	0.0777	U	0.0777	0.388	mg/kg	98		78-122		
Beryllium	0.0155	U	0.0155	0.0971	mg/kg	99		80-120		
Cadmium	0.0427	U	0.0427	0.0971	mg/kg	95		81-119		
Chromium	0.117	U	0.117	0.388	mg/kg	106		77-123		
Cobalt	0.0194	U	0.0194	0.0971	mg/kg	93		80-119		
Copper	0.0777	U	0.0777	0.388	mg/kg	98		78-122		
Lead	0.0329	J	0.0099	0.194	mg/kg	99		77-123		
Nickel	0.0971	U	0.0971	0.388	mg/kg	102		80-120		
Silver	0.0138	U	0.0138	0.0971	mg/kg	96		66-134		
Thallium	0.0291	U	0.0291	0.0971	mg/kg	98		75-124		
Vanadium	0.0242	J	0.0214	0.0971	mg/kg	108		76-124		
Zinc	0.544	U	0.544	2.91	mg/kg	98		79-121		
Batch number: 112081026003B	Sample number(s): 6352971-6352977									
Selenium	0.0563	U	0.0563	0.388	mg/kg	103		77-123		
Batch number: 112081026003C	Sample number(s): 6352971-6352977									
Molybdenum	0.0485	U	0.0485	0.0971	mg/kg	97		76-123		
Batch number: 112081026003D	Sample number(s): 6352971-6352977									
Barium	0.103	U	0.103	0.388	mg/kg	98		80-120		
Batch number: 112085708003	Sample number(s): 6352971-6352977									
Aluminum	5.99	U	5.99	19.8	mg/kg	133		42-158		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257773
Reported: 08/24/11 at 02:33 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Boron	0.994	J	0.356	4.95	mg/kg	106		66-134		
Calcium	11.0	J	2.48	19.8	mg/kg	99		79-121		
Iron	4.84	J	2.58	19.8	mg/kg	118		51-149		
Lithium	0.61	U	0.61	2.0	mg/kg	93		80-120		
Magnesium	0.658	J	0.436	9.90	mg/kg	116		64-136		
Manganese	0.0356	U	0.0356	0.495	mg/kg	95		78-122		
Phosphorus	0.347	U	0.347	9.90	mg/kg	101		80-120		
Potassium	11.2	U	11.2	49.5	mg/kg	109		69-131		
Sodium	5.89	U	5.89	99.0	mg/kg	105		71-129		
Strontium	0.0248	U	0.0248	0.495	mg/kg	101		81-119		
Tin	1.16	J	0.317	9.90	mg/kg	95		74-126		
Titanium	0.0703	U	0.0703	0.990	mg/kg	160		40-186		
Zirconium	0.676	J	0.455	4.95	mg/kg	106		80-120		
Batch number: 11210373202A	Sample number(s): 6352971-6352972,6352974-6352977									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	101		85-115		
Batch number: 11214284201A	Sample number(s): 6352971-6352972,6352974-6352977									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	99		90-110		
Batch number: 11221243201A	Sample number(s): 6352971-6352972,6352974-6352977									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	92		80-120		
Batch number: 11214039402A	Sample number(s): 6352971,6352974-6352977									
18a pH by 9045C						100		95-105		
Batch number: 11206162401B	Sample number(s): 6352971-6352977									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11213SLB026	Sample number(s): 6352971-6352973,6352975-6352977 UNSPK: 6352971								
Acenaphthene	96	101	63-105	5	30				
Acenaphthylene	96	98	67-114	2	30				
Anthracene	103	117*	73-115	12	30				
Benzo(a)anthracene	129*	182*	59-128	26	30				
Benzo(a)pyrene	102	150*	58-142	27	30				
Benzo(b)fluoranthene	109	182*	54-163	27	30				
Benzo(g,h,i)perylene	36	52	33-141	26	30				
Benzo(k)fluoranthene	135	196*	57-153	29	30				
Butylbenzylphthalate	149	156	57-173	4	30				
Di-n-butylphthalate	115	116	65-148	1	30				
Chrysene	148*	234*	67-123	28	30				
Dibenz(a,h)anthracene	46	53	22-133	13	30				
Diethylphthalate	102	106	70-136	3	30				
Dimethylphthalate	107	110	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	402 (2)	1115	39-167	61*	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257773
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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC (2)	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Fluoranthene	238*	404*	51-149	32*	30				
Fluorene	102	107	66-122	5	30				
Indeno(1,2,3-cd)pyrene	50	68	21-143	24	30				
1-Methylnaphthalene	92	97	72-123	5	30				
2-Methylnaphthalene	89	94	64-103	5	30				
Naphthalene	88	93	61-102	6	30				
N-Nitrosodimethylamine	105	111	48-113	6	30				
Di-n-octylphthalate	151	162	40-192	7	30				
Phenanthrene	172*	268*	62-122	32*	30				
Pyrene	243*	430*	51-131	36*	30				
Batch number: 11214SLK026	Sample number(s): 6352971-6352973,6352975-6352977 UNSPK: 6352971								
Acenaphthene	78	97	75-115	23	30				
Acenaphthylene	83	105	81-110	23	30				
Aniline	30	50	18-116	50*	30				
Anthracene	83	103	75-115	21	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	77	94	65-122	19	30				
Benzo(a)pyrene	80	99	57-126	21	30				
Benzo(b)fluoranthene	75	101	59-125	28	30				
Benzo(g,h,i)perylene	82	99	59-127	19	30				
Benzo(k)fluoranthene	89	104	56-132	16	30				
Benzoic acid	27	19	10-173	36*	30				
Benzyl alcohol	70	91	67-115	26	30				
4-Bromophenyl-phenylether	75	92	67-129	21	30				
Butylbenzylphthalate	88	107	73-134	19	30				
Di-n-butylphthalate	85	104	67-123	19	30				
Carbazole	79	97	64-120	20	30				
4-Chloro-3-methylphenol	68	86	62-122	23	30				
4-Chloroaniline	26	50	13-107	62*	30				
bis(2-Chloroethoxy)methane	76	98	75-104	26	30				
bis(2-Chloroethyl)ether	72	93	60-116	26	30				
bis(2-Chloroisopropyl)ether	84	113	55-142	29	30				
2-Chloronaphthalene	74	90	50-141	20	30				
2-Chlorophenol	74	96	73-121	25	30				
4-Chlorophenyl-phenylether	71*	87	80-109	21	30				
Chrysene	73	95	62-128	25	30				
Dibenz(a,h)anthracene	85	102	65-125	18	30				
Dibenzofuran	73	91	71-112	22	30				
1,2-Dichlorobenzene	65*	89	66-108	30	30				
1,3-Dichlorobenzene	64	86	63-109	29	30				
1,4-Dichlorobenzene	65	88	58-108	29	30				
3,3'-Dichlorobenzidine	49	61	28-109	21	30				
2,4-Dichlorophenol	72	93	66-123	25	30				
Diethylphthalate	77	95	66-118	21	30				
2,4-Dimethylphenol	70	88	68-118	24	30				
3,5-Dimethylphenol	75	95	71-127	23	30				
Dimethylphthalate	78	96	64-118	21	30				
4,6-Dinitro-2-methylphenol	21	23	11-126	11	30				
2,4-Dinitrophenol	0*	0*	20-143	0	30				
2,4-Dinitrotoluene	69	86	56-129	22	30				
2,6-Dinitrotoluene	75	94	69-123	22	30				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2-Diphenylhydrazine	92	114	71-129	21	30				
bis(2-Ethylhexyl)phthalate	90	161*	63-122	55*	30				
Fluoranthene	72*	107	73-112	37*	30				
Fluorene	76	96	63-121	23	30				
Hexachlorobenzene	74*	91	77-114	21	30				
Hexachlorobutadiene	65	86	62-120	28	30				
Hexachlorocyclopentadiene	23	28	10-153	21	30				
Hexachloroethane	53*	73	57-109	31*	30				
Indeno(1,2,3-cd)pyrene	83	100	61-126	19	30				
Isophorone	72*	95	73-102	27	30				
1-Methylnaphthalene	69	90	64-122	27	30				
2-Methylnaphthalene	70*	93	76-114	27	30				
2-Methylphenol	75	95	75-111	24	30				
4-Methylphenol	67	86	59-123	25	30				
Naphthalene	72	96	72-116	29	30				
2-Nitroaniline	84	104	67-125	21	30				
3-Nitroaniline	76	96	59-122	24	30				
4-Nitroaniline	65	83	41-109	24	30				
Nitrobenzene	71	95	57-125	29	30				
2-Nitrophenol	66	89	56-127	30	30				
4-Nitrophenol	62	74	37-129	19	30				
N-Nitroso-di-n-propylamine	68	88	60-116	26	30				
N-Nitrosodimethylamine	64	89	47-116	32*	30				
N-Nitrosodiphenylamine	91	107	71-122	17	30				
Di-n-octylphthalate	97	119	56-126	20	30				
Pentachlorophenol	67	65	28-127	3	30				
Phenanthrene	79	102	65-125	25	30				
Phenol	75	97	58-126	26	30				
Pyrene	81	114	74-126	33*	30				
Tetralin	85	50*	70-130	52*	30				
1,2,4-Trichlorobenzene	68*	90	72-115	27	30				
2,4,5-Trichlorophenol	77	93	58-129	20	30				
2,4,6-Trichlorophenol	76	96	56-134	23	30				
Batch number: 112130011A	Sample number(s): 6352971-6352973,6352975-6352977 UNSPK: 6352971								
2,4-D	71	75	17-180	6	35				
Dalapon	42	44	10-125	5	50				
2,4-DB	173	129	10-201	29	50				
Dicamba	119	148	10-190	22	50				
Dinoseb	0*	7*	10-46	200*	35				
2,4-DP (Dichlorprop)	99	102	33-178	3	50				
MCPA	0*	27	10-213	200*	50				
MCPP (Mecoprop)	19	25	10-184	27	50				
2,4,5-T	52	42	10-156	21	35				
2,4,5-TP	19*	22*	24-141	2	35				
Batch number: 112130022A	Sample number(s): 6352971-6352973,6352977 UNSPK: 6352971								
6a Perchlorate EPA 6850	119	121*	80-120	2	20				
Batch number: 112140009A	Sample number(s): 6352971-6352973,6352975-6352977 UNSPK: 6352971								
PCB-1016	92	100	29-146	8	50				
PCB-1260	-95*	-92*	39-149	3	50				

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112140011A	Sample number(s): 6352971-6352973,6352975-6352977 UNSPK: 6352971								
Aldrin	67	67	16-126	0	50				
Alpha BHC	65	68	10-129	4	50				
Beta BHC	113	106	14-147	6	50				
Gamma BHC - Lindane	112	97	10-140	14	50				
p,p-DDD	169*	0*	16-163	200*	50				
p,p-DDE	8*	26	18-161	9	50				
p,p-DDT	124 (2)	207 (2)	10-176	9	50				
Delta BHC	72	94	23-140	16	50				
Dieldrin	0*	0*	19-154	0	50				
Endosulfan I	25	23	16-137	10	50				
Endosulfan II	77	85	28-154	10	50				
Endosulfan Sulfate	0*	0*	21-160	0	50				
Endrin	0*	109	11-149	200*	50				
Endrin Aldehyde	5*	3*	10-148	1	35				
Endrin Ketone	77	76	22-165	2	50				
Heptachlor	100	88	13-126	13	50				
Heptachlor Epoxide	61	64	13-157	2	50				
Methoxychlor	85	83	32-147	3	50				
Batch number: 112040001A	Sample number(s): 6352976-6352977 UNSPK: P353026								
Diethylene glycol	13*	13*	59-109	2	20				
Ethylene glycol	47*	44*	63-107	6	20				
Propylene glycol	65	60*	63-107	7	20				
Batch number: 112080024A	Sample number(s): 6352976-6352977 UNSPK: P353026								
Ethanol	48	83	48-130	53*	20				
Isopropanol	35	91	12-149	89*	20				
Methanol	50	87	43-138	55*	20				
Batch number: 112080002A	Sample number(s): 6352976-6352977 UNSPK: P348152								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	17*	-36*	49-123	14	20				
EFH (C21-C30)	-1851 (2)	-683 (2)	49-123	28*	20				
EFH (C30 - C40)	-2249 (2)	-1067 (2)	49-123	12	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 112140032A	Sample number(s): 6352976-6352977 UNSPK: P353026								
m-Terphenyl	80	80	75-125	0	20				
o-Terphenyl	101	102	75-125	1	20				
p-Terphenyl	89	89	75-125	0	20				
Batch number: 112045711003	Sample number(s): 6352971-6352977 UNSPK: 6352971 BKG: 6352971								
Mercury	119	102	65-135	14	20	0.0435 J	0.0320 J	30* (1)	20
Batch number: 112081026003A	Sample number(s): 6352971-6352977 UNSPK: 6352971 BKG: 6352971								
Antimony	33*	44*	75-125	19	20	0.168 J	0.198	16 (1)	20
Arsenic	188*	201*	75-125	2	20	4.95	6.60	29*	20
Beryllium	149*	156*	75-125	2	20	0.761	0.901	17	20
Cadmium	156*	140*	75-125	8	20	0.753	0.902	18	20
Chromium	186*	180*	75-125	2	20	26.7	32.0	18	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257773
Reported: 08/24/11 at 02:33 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Cobalt	135*	144*	75-125	4	20	7.15	8.44	17	20
Copper	178*	169*	75-125	3	20	18.9	22.3	17	20
Lead	371 (2)	27 (2)	75-125	22*	20	39.8	43.0	8	20
Nickel	201*	190*	75-125	4	20	21.5	25.5	17	20
Silver	138*	144*	75-125	2	20	1.18	1.34	13	20
Thallium	136*	167*	75-125	11	20	0.391	0.437	11 (1)	20
Vanadium	239 (2)	225 (2)	75-125	3	20	42.0	52.8	23*	20
Zinc	459 (2)	259 (2)	75-125	13	20	120	142	16	20
Batch number: 112081026003B	Sample number(s): 6352971-6352977 UNSPK: 6352971 BKG: 6352971								
Selenium	119	123	75-125	1	20	0.187 J	0.215 J	14 (1)	20
Batch number: 112081026003C	Sample number(s): 6352971-6352977 UNSPK: 6352971 BKG: 6352971								
Molybdenum	132*	140*	75-125	3	20	0.742	0.925	22*	20
Batch number: 112081026003D	Sample number(s): 6352971-6352977 UNSPK: 6352971 BKG: 6352971								
Barium	-114 (2)	-193 (2)	75-125	6	20	143	167	15	20
Batch number: 112085708003	Sample number(s): 6352971-6352977 UNSPK: 6352971 BKG: 6352971								
Aluminum	2588 (2)	2606 (2)	75-125	1	20	15,300	15,900	4	20
Boron	94	98	84-115	5	20	7.15	7.09	1 (1)	20
Calcium	241 (2)	223 (2)	75-125	2	20	2,560	2,640	3	20
Iron	3265 (2)	3618 (2)	75-125	2	20	19,000	20,500	8	20
Lithium	108	109	82-114	2	20	19.8	20.9	5	20
Magnesium	472 (2)	473 (2)	75-125	0	20	4,190	4,480	7	20
Manganese	253 (2)	205 (2)	75-125	5	20	283	319	12	20
Phosphorus	155 (2)	163 (2)	75-125	2	20	446	475	6	20
Potassium	189*	187*	75-125	0	20	3,770	4,010	6	20
Sodium	99	102	75-125	4	20	79.1 J	84.0 J	6 (1)	20
Strontium	100	102	75-115	3	20	22.7	23.5	3	20
Tin	88	89	80-110	3	20	2.92 J	2.87 J	2 (1)	20
Titanium	356 (2)	369 (2)	75-125	1	20	1,020	1,040	3	20
Zirconium	94	96	75-125	4	20	4.08 J	5.55	31* (1)	20
Batch number: 11210373202A	Sample number(s): 6352971-6352972,6352974-6352977 UNSPK: 6352971 BKG: 6352971								
7a Perchlorate EPA 314.0	104		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11214284201A	Sample number(s): 6352971-6352972,6352974-6352977 UNSPK: 6352971 BKG: 6352971								
11a Anions by 300.0 - Fluoride	40*		80-120			1.5	1.5	2 (1)	20
Batch number: 11221243201A	Sample number(s): 6352971-6352972,6352974-6352977 UNSPK: 6352971 BKG: 6352971								
3a Cr VI by EPA 7199	49*		75-125			0.93 J	0.78 J	18 (1)	20
Batch number: 11214039402A	Sample number(s): 6352971,6352974-6352977 BKG: 6352971								
18a pH by 9045C						6.46	6.58	2	3
Batch number: 11206162401B	Sample number(s): 6352971-6352977 BKG: 6352971								
28a Moisture Content by 160.3						1.1	1.1	2 (1)	20
Moisture Content by 160.3						1.1	1.1	2 (1)	20
Moisture Content by 160.3						1.1	1.1	2 (1)	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257773
Reported: 08/24/11 at 02:33 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11213SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6352971	100	93	120
6352972	99	91	118
6352973	102	93	123
6352975	94	89	128
6352976	99	94	131
6352977	99	93	129
Blank	109	100	112
LCS	105	93	102
MS	99	91	118
MSD	102	93	123
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11214SLK026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6352971	92	91	66	81	90	78
6352972	74	73	56	67	76	65
6352973	96	95	70	89	97	80
6352975	94	95	68	87	98	80
6352976	99	96	77	83	89	82
6352977	98	96	74	83	88	79
Blank	98	96	73	82	87	78
LCS	110	107	75	87	93	80
MS	74	73	56	67	76	65
MSD	96	95	70	89	97	80
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112130011A

	2,4-Dichlorophenylacetic acid
6352971	84
6352972	79
6352973	78
6352975	40
6352976	70

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257773
Reported: 08/24/11 at 02:33 PM

Surrogate Quality Control

6352977	83
Blank	110
LCS	115
MS	79
MSD	78
Limits:	36-156

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112140009A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6352971	68	102
6352972	88	92
6352973	98	96
6352975	78	129*
6352976	87	52
6352977	87	102
Blank	90	81
LCS	95	86
LCSD	84	82
MS	88	92
MSD	98	96
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 112140011A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6352971	78	118
6352972	67	96
6352973	77	108
6352975	78	694*
6352976	72	52
6352977	62	160*
Blank	63	93
LCS	76	99
MS	67	96
MSD	77	108
Limits:	50-130	20-120

Analysis Name: 21a Glycols by 8015B
Batch number: 112040001A

	Tetramethylene glycol
6352976	93
6352977	92
Blank	123
LCS	104
MS	97
MSD	91
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257773
Reported: 08/24/11 at 02:33 PM

Surrogate Quality Control

Batch number: 112080002A

	Chlorobenzene	Orthoterphenyl
6352976	83	106
6352977	85	106
Blank	86	108
LCS	85	105
MS	91	112
MSD	86	109
Limits:	37-125	47-145

Analysis Name: 19a Alcohols by 8015B
Batch number: 112080024A

	Acetone
6352976	105
6352977	98
Blank	98
LCS	100
MS	72
MSD	100
Limits:	42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 112140032A

	n-Triacontane-d62
6352976	76
6352977	60
Blank	83
LCS	83
MS	66
MSD	65
Limits:	50-150

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

13013 / 1357773 / 6352971-77

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS								SS ONLY		SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCT's EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-211-SA6-SS-0.0-0.5MS	7/21/11	1023	SOIL	NONE	2-SS Sleeve			X	X																MS/MSD
SL-211-SA6-SS-0.0-0.5MS	7/21/11	1023	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X	X	X	X									MS/MSD
SL-214-SA6-SS-0.0-0.5	7/21/11	0907	SOIL	NONE	1-SS Sleeve			X	X																
SL-214-SA6-SS-0.0-0.5	7/21/11	0907	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-216-SA6-SS-0.0-0.5	7/21/11	0949	SOIL	NONE	1-SS Sleeve			X	X																
SL-216-SA6-SS-0.0-0.5	7/21/11	0949	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X	X						X	X	X
SL-219-SA6-SS-0.0-0.5	7/21/11	0925	SOIL	NONE	1-SS Sleeve			X	X																
SL-219-SA6-SS-0.0-0.5	7/21/11	0925	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X	X	X	X	X						X	X	X
SL-228-SA6-SS-0.0-0.5MS	7/21/11	1239	SOIL	NONE	2-SS Sleeve			X	X																MS/MSD
SL-228-SA6-SS-0.0-0.5MS	7/21/11	1239	SOIL	NONE	4-16 oz jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	MS/MSD
SL-237-SA6-SS-0.0-0.5	7/21/11	1400	SOIL	NONE	1-SS Sleeve			X	X																
SL-237-SA6-SS-0.0-0.5	7/21/11	1400	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-240-SA6-SS-0.0-0.5	7/21/11	1501	SOIL	NONE	1-SS Sleeve			X	X																
SL-240-SA6-SS-0.0-0.5	7/21/11	1501	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X
SL-314-SA6-SS-0.0-0.5	7/21/11	1314	SOIL	NONE	1-SS Sleeve			X	X																
SL-314-SA6-SS-0.0-0.5	7/21/11	1314	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	X									
SL-315-SA6-SS-0.0-0.5	7/21/11	1337	SOIL	NONE	1-SS Sleeve			X	X																
SL-315-SA6-SS-0.0-0.5	7/21/11	1337	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X
SL-316-SA6-SS-0.0-0.5	7/21/11	1420	SOIL	NONE	1-SS Sleeve			X	X																
SL-316-SA6-SS-0.0-0.5	7/21/11	1420	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	X									
SL-318-SA6-SS-0.0-0.5	7/21/11	1441	SOIL	NONE	1-SS Sleeve			X	X																
SL-318-SA6-SS-0.0-0.5	7/21/11	1441	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
DUP08-SA6-QC-072111	7/21/11	1249	SOIL	NONE	1-SS Sleeve			X	X																
DUP06-SA6-QC-072111	7/21/11	1249	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	
DUP05-SA6-QC-072111	7/21/11	1040	SOIL	NONE	1-SS Sleeve			X	X																
DUP05-SA6-QC-072111	7/21/11	1040	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	07/21/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
	7/22/11 1210	8754 3340 9674,9685, 9663	

13018
~~12878~~ /1257773/6352971-77
Alle 7/22/11 (SF)

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-073-SA6-SB-4.5	7/21/11	0955	SOIL	NONE	5-Encores										X	X	X										
SL-073-SA6-SB-4.0-5.0	7/21/11	1000	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-081-SA6-SB-4.5	7/21/11	1505	SOIL	NONE	5-Encores										X	X	X										
SL-081-SA6-SB-4.0-5.0	7/21/11	1510	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-081-SA6-SB-9.5	7/21/11	1515	SOIL	NONE	1-Encore												X										
SL-081-SA6-SB-9.0-10.0	7/21/11	1520	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-104-SA6-SB-3.0	7/21/11	1435	SOIL	NONE	5-Encores										X	X	X										
SL-104-SA6-SB-2.5-3.5	7/21/11	1440	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-105-SA6-SB-3.0	7/21/11	1055	SOIL	NONE	5-Encore										X	X	X										
SL-105-SA6-SB-2.5-3.5	7/21/11	1059	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
TB-072111	7/21/11	0800	SOIL	NONE	4-40mL Vials										X	X	X										

Relinquished by: (*Signature*)	Date/Time: 07/21/2011 / 1600	Received for Laboratory by: (*Signature*)
Received by: (*Signature*)	Date/Time: 7/22/11 1010	Airbill No.(s): 8754 3340 9674,9685, 9663

Laboratory:
Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 31, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/22/2011
Group Number: 1257776
SDG: DE206
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-228-SA6-SS-0.0-0.5 Soil	6353026
SL-228-SA6-SS-0.0-0.5MS Soil	6353027
SL-228-SA6-SS-0.0-0.5MSD Soil	6353028
SL-228-SA6-SS-0.0-0.5DUP Soil	6353029
SL-237-SA6-SS-0.0-0.5 Soil	6353030
SL-240-SA6-SS-0.0-0.5 Soil	6353031
SL-314-SA6-SS-0.0-0.5 Soil	6353032
SL-315-SA6-SS-0.0-0.5 Soil	6353033
SL-316-SA6-SS-0.0-0.5 Soil	6353034
SL-318-SA6-SS-0.0-0.5 Soil	6353035
DUP06-SA6-QC-072111 Soil	6353036
DUP05-SA6-QC-072111 Soil	6353037
SL-073-SA6-SB-4.0-5.0 Soil	6353038
SL-081-SA6-SB-4.0-5.0 Soil	6353039
SL-081-SA6-SB-9.0-10.0 Soil	6353040
SL-104-SA6-SB-2.5-3.5 Soil	6353041
SL-105-SA6-SB-2.5-3.5 Soil	6353042
TB-072111 Water	6353043

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

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Analysis Report

COPY TO
1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-228-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353026
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	16.8	U	16.8	33.6		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	17	J	17	170		1
04688	Benzo(a)pyrene	50-32-8	19	J	17	170		1
04688	Benzo(b)fluoranthene	205-99-2	37	J	17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	18	J	17	170		1
04688	Benzo(k)fluoranthene	207-08-9	22	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	54	J	17	340		1
04688	Fluoranthene	206-44-0	94	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	17	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-228-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353026
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenanthrene	85-01-8	61	J	17	170		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	85	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	J	0.68	1.7		1
10138	Acenaphthylene	208-96-8	1.3	J	0.34	1.7		1
10138	Anthracene	120-12-7	5.8		0.34	1.7		1
10138	Butylbenzylphthalate	85-68-7	8.0	J	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	10	J	6.1	18		1
10138	Chrysene	218-01-9	57		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	1.7		0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Fluorene	86-73-7	0.89	J	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.82	J	0.68	1.7		1
10138	Naphthalene	91-20-3	0.96	J	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	240	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-228-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353026
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	0.63	U	0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1

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Sample Description: SL-228-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353026
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E0601 SDG#: DE206-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Chlordane	57-74-9	3.7		0.82	3.5		1
01363	p,p-DDD	72-54-8	0.37	U	0.37	0.37		1
01363	p,p-DDE	72-55-9	3.9		0.34	1.7		5
01363	p,p-DDT	50-29-3	7.9		0.34	1.7		5
01363	Delta BHC	319-86-8	0.12	J	0.037	0.17		1
01363	Dieldrin	60-57-1	0.64	U	0.64	0.64		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.16	U	0.16	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.21	U	0.21	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.25	U	0.25	0.35		1
01363	Endrin Ketone	53494-70-5	0.40		0.067	0.35		1
01363	Heptachlor	76-44-8	0.064	J	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.16	U	0.16	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.47	U	0.47	0.47		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17		5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17		5
10225	Aroclor 5460	11126-42-4	22		5.1	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.7		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.7		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.7		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.7		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.7		5
10225	PCB-1254	11097-69-1	34		1.7	8.7		5
10225	PCB-1260	11096-82-5	2.0	U	2.0	8.7		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.7		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.7		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1

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Sample Description: SL-228-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353026
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	4.9		0.41	1.2		1
10199	EFH (C21-C30)	n.a.	20		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	36		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.84	J	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,500		5.87	19.4		1
07914	Boron	7440-42-8	3.30	J	0.349	4.85		1
01650	Calcium	7440-70-2	2,910		2.43	19.4		1
01654	Iron	7439-89-6	18,400		2.53	19.4		1
01656	Lithium	7439-93-2	21.2		0.60	1.9		1
01657	Magnesium	7439-95-4	4,020		0.427	9.71		1
06958	Manganese	7439-96-5	322		0.0349	0.485		1
10145	Phosphorus	7723-14-0	433		0.340	9.71		1
01662	Potassium	7440-09-7	3,700		11.0	48.5		1
01667	Sodium	7440-23-5	72.0	J	5.78	97.1		1
07968	Strontium	7440-24-6	24.2		0.0243	0.485		1
06969	Tin	7440-31-5	2.91	J	0.311	9.71		1
06970	Titanium	7440-32-6	971		0.0689	0.971		1
10146	Zirconium	7440-67-7	2.37	J	0.447	4.85		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.206		0.0718	0.194		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.57		0.0777	0.388		2
06126	Barium	7440-39-3	108		0.103	0.388		2
06127	Beryllium	7440-41-7	0.537		0.0155	0.0971		2
06128	Cadmium	7440-43-9	0.559		0.0427	0.0971		2
06131	Chromium	7440-47-3	19.9		0.116	0.388		2
06132	Cobalt	7440-48-4	6.19		0.0194	0.0971		2
06133	Copper	7440-50-8	12.5		0.0777	0.388		2
06135	Lead	7439-92-1	21.2		0.0099	0.194		2
06138	Molybdenum	7439-98-7	0.592		0.0485	0.0971		2
06139	Nickel	7440-02-0	14.9		0.0971	0.388		2
06141	Selenium	7782-49-2	0.125	J	0.0563	0.388		2
06142	Silver	7440-22-4	0.512		0.0138	0.0971		2
06145	Thallium	7440-28-0	0.286		0.0291	0.0971		2
06148	Vanadium	7440-62-2	31.3		0.0214	0.0971		2
06149	Zinc	7440-66-6	78.7		0.544	2.91		2

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Analysis Report

Sample Description: SL-228-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353026
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0370	J	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.81	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1	J	0.81	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.78		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.9		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11213SLA026	08/10/2011 20:29	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLL026	08/15/2011 07:22	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11213SLC026	08/04/2011 14:29	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11213SLA026	08/02/2011 08:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11213SLC026	08/02/2011 08:25	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLL026	08/03/2011 06:00	Joseph S Feister	1

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Sample Description: SL-228-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353026
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	15a Energetics by 8330A	SW-846 8330A	1	112140015A	08/05/2011 05:18	Michele D Hamilton	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112070008A	07/28/2011 02:56	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112150006A	08/05/2011 00:34	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140012A	08/25/2011 00:00	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140012A	08/25/2011 00:15	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112140010A	08/04/2011 06:25	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112140012A	08/02/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112140010A	08/02/2011 16:20	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112150006A	08/03/2011 20:00	Elaine F Stoltzfus	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112070008A	07/26/2011 13:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112140015A	08/03/2011 00:45	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112080024A	07/28/2011 19:09	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112040001A	07/23/2011 09:52	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112140032A	08/04/2011 19:02	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112140001A	08/03/2011 20:19	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112140001A	08/02/2011 09:30	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112140032A	08/03/2011 06:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112080024A	07/28/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112040001A	07/23/2011 06:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112095708003	08/02/2011 12:27	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112095708003	08/02/2011 12:27	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112095708003	08/02/2011 12:27	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112095708003	08/02/2011 12:27	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112095708003	08/02/2011 12:27	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112095708003	08/02/2011 12:27	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112095708003	08/02/2011 12:27	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112095708003	08/02/2011 12:27	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112095708003	08/02/2011 12:27	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112095708003	08/02/2011 12:27	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112095708003	08/02/2011 12:27	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112095708003	08/03/2011 10:28	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112095708003	08/02/2011 12:27	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112095708003	08/02/2011 12:27	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112091026003A	08/01/2011 08:00	David K Beck	2
06125	Arsenic	SW-846 6020	1	112091026003A	08/01/2011 08:00	David K Beck	2
06126	Barium	SW-846 6020	1	112091026003D	08/01/2011 08:00	David K Beck	2
06127	Beryllium	SW-846 6020	1	112091026003A	08/01/2011 08:00	David K Beck	2
06128	Cadmium	SW-846 6020	1	112091026003A	08/01/2011 08:00	David K Beck	2
06131	Chromium	SW-846 6020	1	112091026003A	08/01/2011 08:00	David K Beck	2

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Sample Description: SL-228-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353026
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	112091026003A	08/01/2011 08:00	David K Beck	2
06133	Copper	SW-846 6020	1	112091026003A	08/01/2011 08:00	David K Beck	2
06135	Lead	SW-846 6020	1	112091026003A	08/01/2011 08:00	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112091026003C	08/01/2011 08:00	David K Beck	2
06139	Nickel	SW-846 6020	1	112091026003A	08/01/2011 08:00	David K Beck	2
06141	Selenium	SW-846 6020	1	112091026003B	08/01/2011 08:00	David K Beck	2
06142	Silver	SW-846 6020	1	112091026003A	08/01/2011 08:00	David K Beck	2
06145	Thallium	SW-846 6020	1	112091026003A	08/01/2011 08:00	David K Beck	2
06148	Vanadium	SW-846 6020	1	112091026003A	08/01/2011 08:00	David K Beck	2
06149	Zinc	SW-846 6020	1	112091026003A	08/01/2011 08:00	David K Beck	2
00159	Mercury	SW-846 7471A	1	112095711004	07/29/2011 12:14	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112095708003	07/28/2011 08:34	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112091026003	07/29/2011 08:52	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112095711004	07/28/2011 10:31	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11214284202A	08/03/2011 12:23	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11214284202A	08/03/2011 12:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11210373203A	08/02/2011 17:32	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11221243201B	08/10/2011 17:32	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11215102201A	08/03/2011 18:30	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11214284202A	08/02/2011 17:55	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11210373203A	07/29/2011 16:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11215102201A	08/03/2011 09:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039401A	08/02/2011 09:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243201B	08/03/2011 09:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-228-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353027
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	659		16.9	33.8		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 40.2 ng/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		17	170		1
04688	Acenaphthylene	208-96-8	1,700		17	170		1
04688	Aniline	62-53-3	950		170	510		1
04688	Anthracene	120-12-7	1,700		17	170		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	1,700		17	170		1
04688	Benzo(a)pyrene	50-32-8	1,700		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,900		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,700		17	170		1
04688	Benzoic acid	65-85-0	470	J	170	510		1
04688	Benzyl alcohol	100-51-6	1,600		170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		17	170		1
04688	Butylbenzylphthalate	85-68-7	1,700		17	170		1
04688	Di-n-butylphthalate	84-74-2	1,700		17	170		1
04688	Carbazole	86-74-8	1,600		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,500		34	170		1
04688	4-Chloroaniline	106-47-8	530		68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600		17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		17	170		1
04688	2-Chloronaphthalene	91-58-7	1,600		17	170		1
04688	2-Chlorophenol	95-57-8	1,700		17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600		34	170		1
04688	Chrysene	218-01-9	1,800		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	1,800		17	170		1
04688	Dibenzofuran	132-64-9	1,500		17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,500		17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,500		17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,500		17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	960		100	340		1
04688	2,4-Dichlorophenol	120-83-2	1,600		17	170		1
04688	Diethylphthalate	84-66-2	1,600		17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,500		34	170		1
04688	3,5-Dimethylphenol	108-68-9	1,700		34	170		1
04688	Dimethylphthalate	131-11-3	1,600		17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,100		170	510		1
04688	2,4-Dinitrophenol	51-28-5	870	J	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	1,500		34	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,700		17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		17	340		1
04688	Fluoranthene	206-44-0	2,000		17	170		1
04688	Fluorene	86-73-7	1,600		17	170		1
04688	Hexachlorobenzene	118-74-1	1,800		17	170		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-228-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353027
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobutadiene	87-68-3	1,600		68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	3,000		170	510		1
04688	Hexachloroethane	67-72-1	1,600		17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800		17	170		1
04688	Isophorone	78-59-1	1,500		17	170		1
04688	1-Methylnaphthalene	90-12-0	1,600		17	170		1
04688	2-Methylnaphthalene	91-57-6	1,600		17	170		1
04688	2-Methylphenol	95-48-7	1,700		34	170		1
04688	4-Methylphenol	106-44-5	1,600		34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,500		17	170		1
04688	2-Nitroaniline	88-74-4	1,600		17	170		1
04688	3-Nitroaniline	99-09-2	1,400		34	170		1
04688	4-Nitroaniline	100-01-6	1,200		68	170		1
04688	Nitrobenzene	98-95-3	1,600		17	170		1
04688	2-Nitrophenol	88-75-5	1,500		17	170		1
04688	4-Nitrophenol	100-02-7	1,200		170	510		1
04688	N-Nitrosodimethylamine	62-75-9	1,500		34	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600		17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700		17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,700		17	170		1
04688	Pentachlorophenol	87-86-5	1,100		170	510		1
04688	Phenanthrene	85-01-8	1,900		17	170		1
04688	Phenol	108-95-2	1,600		17	170		1
04688	Pyrene	129-00-0	2,000		17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	1,500		17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,600		34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,600		34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	35		0.68	1.7		1
10138	Acenaphthylene	208-96-8	34		0.34	1.7		1
10138	Anthracene	120-12-7	41		0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	56		0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	49		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	76		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	20		0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	55		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	41		6.1	18		1
10138	Di-n-butylphthalate	84-74-2	45		6.1	18		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-228-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353027
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	90		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	18		0.68	1.7		1
10138	Diethylphthalate	84-66-2	38		6.1	18		1
10138	Dimethylphthalate	131-11-3	37		6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	62		6.1	18		1
10138	Fluoranthene	206-44-0	120		0.68	1.7		1
10138	Fluorene	86-73-7	36		0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	23		0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	32		0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	32		0.68	1.7		1
10138	Naphthalene	91-20-3	33		0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	37		0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	36		6.1	18		1
10138	Phenanthrene	85-01-8	68		0.68	1.7		1
10138	Pyrene	129-00-0	96		0.68	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,300		61	120		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,200		41	120		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	240		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	240		1
10132	1,3-Dinitrobenzene	99-65-0	2,200		41	120		1
10132	2,4-Dinitrotoluene	121-14-2	2,100		41	120		1
10132	2,6-Dinitrotoluene	606-20-2	2,300		41	120		1
10132	HMX	2691-41-0	1,900		100	310		1
10132	Nitrobenzene	98-95-3	1,900		41	120		1
10132	Nitroglycerin	55-63-0	43,000		820	2,400		1
10132	2-Nitrotoluene	88-72-2	2,200		82	120		1
10132	3-Nitrotoluene	99-08-1	2,300		100	120		1
10132	4-Nitrotoluene	99-99-0	2,200		82	120		1
10132	PETN	78-11-5	51,000		820	2,400		1
10132	RDX	121-82-4	1,900		51	120		1
10132	Tetryl	479-45-8	2,200		62	120		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,100		41	120		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,300		41	120		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	7.1		1.2	3.7		1
10401	Dalapon	75-99-0	6.7	J	4.5	9.2		1
10401	2,4-DB	94-82-6	8.1		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	7.1		0.82	1.7		1
10401	MCPA	94-74-6	470		77	250		1
10401	MCPP (Mecoprop)	93-65-2	710		76	250		1
10401	2,4,5-T	93-76-5	0.24		0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.33		0.076	0.17		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-228-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353027
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	5,100		610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.29		0.067	0.17		1
01363	Alpha BHC	319-84-6	0.24		0.035	0.17		1
01363	Beta BHC	319-85-7	0.37		0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.28		0.035	0.17		1
01363	Chlordane	57-74-9	6.1		0.82	3.5		1
01363	p,p-DDD	72-54-8	0.75		0.067	0.35		1
01363	p,p-DDE	72-55-9	4.2		0.34	1.7		5
01363	p,p-DDT	50-29-3	8.0		0.34	1.7		5
01363	Delta BHC	319-86-8	0.33		0.037	0.17		1
01363	Dieldrin	60-57-1	0.99		0.067	0.35		1
01363	Endosulfan I	959-98-8	0.22		0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.57		0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.69		0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.84		0.067	0.35		1
01363	Endrin Ketone	53494-70-5	0.51		0.067	0.35		1
01363	Heptachlor	76-44-8	0.37		0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.47		0.035	0.17		1
01363	Methoxychlor	72-43-5	3.7		0.35	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17		5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17		5
10225	Aroclor 5460	11126-42-4	17	J	5.1	17		5
10225	PCB-1016	12674-11-2	17		1.7	8.7		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.7		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.7		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.7		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.7		5
10225	PCB-1254	11097-69-1	20		1.7	8.7		5
10225	PCB-1260	11096-82-5	23		2.0	8.7		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.7		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.7		5
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	1,200		100	510		1
10501	Isopropanol	67-63-0	890		100	510		1
10501	Methanol	67-56-1	1,300		100	510		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	26		5.1	10		1
08283	Ethylene glycol	107-21-1	92		5.1	10		1

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Sample Description: SL-228-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353027
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	120		5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.3	J	1.3	3.6		1
10318	o-Terphenyl	84-15-1	1.7	J	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	J	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.87	J	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	4.1		0.41	1.2		1
10199	EFH (C21-C30)	n.a.	14		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	48		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.95	J	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,000		5.99	19.8		1
07914	Boron	7440-42-8	192		0.356	4.95		1
01650	Calcium	7440-70-2	3,660		2.47	19.8		1
01654	Iron	7439-89-6	19,700		2.58	19.8		1
01656	Lithium	7439-93-2	121		0.61	2.0		1
01657	Magnesium	7439-95-4	4,560		0.435	9.90		1
06958	Manganese	7439-96-5	415		0.0356	0.495		1
10145	Phosphorus	7723-14-0	535		0.346	9.90		1
01662	Potassium	7440-09-7	5,080		11.2	49.5		1
01667	Sodium	7440-23-5	1,020		5.89	99.0		1
07968	Strontium	7440-24-6	121		0.0247	0.495		1
06969	Tin	7440-31-5	366		0.317	9.90		1
06970	Titanium	7440-32-6	1,270		0.0703	0.990		1
10146	Zirconium	7440-67-7	90.3		0.455	4.95		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.519		0.0732	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.33		0.0792	0.396		2
06126	Barium	7440-39-3	117		0.105	0.396		2
06127	Beryllium	7440-41-7	1.25		0.0158	0.0990		2
06128	Cadmium	7440-43-9	1.42		0.0435	0.0990		2
06131	Chromium	7440-47-3	28.2		0.119	0.396		2
06132	Cobalt	7440-48-4	52.7		0.0198	0.0990		2
06133	Copper	7440-50-8	22.0		0.0792	0.396		2
06135	Lead	7439-92-1	23.7		0.0101	0.198		2
06138	Molybdenum	7439-98-7	10.1		0.0495	0.0990		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-228-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353027
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06139	Nickel	7440-02-0	25.0	0.0990	0.396		2
06141	Selenium	7782-49-2	2.05	0.0574	0.396		2
06142	Silver	7440-22-4	10.6	0.0141	0.0990		2
06145	Thallium	7440-28-0	0.621	0.0297	0.0990		2
06148	Vanadium	7440-62-2	39.7	0.0218	0.0990		2
06149	Zinc	7440-66-6	86.7	0.554	2.97		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.210	0.0070	0.0991		1
Wet Chemistry	**EPA 300.0**		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.0	0.81	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	10.6	0.81	1.5		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	460	9.2	30.6		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	28.0	1.0	5.1		5
	SW-846 9012B		mg/kg	mg/kg	mg/kg	mg/kg	
05895	16a Cyanide by 9012B	57-12-5	5.3	0.18	0.51		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	1.9	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11213SLA026	08/10/2011 20:48	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLL026	08/15/2011 07:48	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11213SLC026	08/04/2011 15:01	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11213SLA026	08/02/2011 08:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11213SLC026	08/02/2011 08:25	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLL026	08/03/2011 06:00	Joseph S Feister	1

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Sample Description: SL-228-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353027
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	15a Energetics by 8330A	SW-846 8330A	1	112140015A	08/05/2011 06:00	Michele D Hamilton	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112070008A	07/28/2011 03:06	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112150006A	08/05/2011 01:01	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140012A	08/25/2011 00:30	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140012A	08/25/2011 00:45	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112140010A	08/04/2011 06:43	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112140012A	08/02/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112140010A	08/02/2011 16:20	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112150006A	08/03/2011 20:00	Elaine F Stoltzfus	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112070008A	07/26/2011 13:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112140015A	08/03/2011 00:45	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112080024A	07/28/2011 19:24	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112040001A	07/23/2011 12:26	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112140032A	08/04/2011 19:46	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112140001A	08/03/2011 20:43	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112140001A	08/02/2011 09:30	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112140032A	08/03/2011 06:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112080024A	07/28/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112040001A	07/23/2011 06:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112095708003	08/02/2011 11:03	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112095708003	08/02/2011 11:03	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112095708003	08/02/2011 11:03	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112095708003	08/02/2011 11:03	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112095708003	08/02/2011 11:03	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112095708003	08/02/2011 11:03	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112095708003	08/02/2011 11:03	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112095708003	08/02/2011 11:03	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112095708003	08/02/2011 11:03	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112095708003	08/02/2011 11:03	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112095708003	08/02/2011 11:03	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112095708003	08/03/2011 10:40	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112095708003	08/02/2011 11:03	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112095708003	08/02/2011 11:03	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112091026003A	08/01/2011 08:09	David K Beck	2
06125	Arsenic	SW-846 6020	1	112091026003A	08/01/2011 08:09	David K Beck	2
06126	Barium	SW-846 6020	1	112091026003D	08/01/2011 08:09	David K Beck	2
06127	Beryllium	SW-846 6020	1	112091026003A	08/01/2011 08:09	David K Beck	2
06128	Cadmium	SW-846 6020	1	112091026003A	08/01/2011 08:09	David K Beck	2
06131	Chromium	SW-846 6020	1	112091026003A	08/01/2011 08:09	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-228-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353027
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	112091026003A	08/01/2011 08:09	David K Beck	2
06133	Copper	SW-846 6020	1	112091026003A	08/01/2011 08:09	David K Beck	2
06135	Lead	SW-846 6020	1	112091026003A	08/01/2011 08:09	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112091026003C	08/01/2011 08:09	David K Beck	2
06139	Nickel	SW-846 6020	1	112091026003A	08/01/2011 08:09	David K Beck	2
06141	Selenium	SW-846 6020	1	112091026003B	08/01/2011 08:09	David K Beck	2
06142	Silver	SW-846 6020	1	112091026003A	08/01/2011 08:09	David K Beck	2
06145	Thallium	SW-846 6020	1	112091026003A	08/01/2011 08:09	David K Beck	2
06148	Vanadium	SW-846 6020	1	112091026003A	08/01/2011 08:09	David K Beck	2
06149	Zinc	SW-846 6020	1	112091026003A	08/01/2011 08:09	David K Beck	2
00159	Mercury	SW-846 7471A	1	112095711004	07/29/2011 12:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112095708003	07/28/2011 08:34	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112091026003	07/29/2011 08:52	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112095711004	07/28/2011 10:31	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11214284202A	08/03/2011 12:57	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11214284202A	08/03/2011 12:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11210373203A	08/02/2011 18:18	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11221243201B	08/10/2011 17:53	Elyse P Brunstetter	5
05895	16a Cyanide by 9012B	SW-846 9012B	1	11215102201A	08/03/2011 18:31	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11214284202A	08/02/2011 17:55	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11210373203A	07/29/2011 16:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11215102201A	08/03/2011 09:10	Nancy J Shoop	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243201B	08/03/2011 09:00	Michelle L Lalli	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-228-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353028
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	630		16.8	33.6		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 40.2 ng/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		17	170		1
04688	Acenaphthylene	208-96-8	1,700		17	170		1
04688	Aniline	62-53-3	880		170	510		1
04688	Anthracene	120-12-7	1,700		17	170		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	1,700		17	170		1
04688	Benzo(a)pyrene	50-32-8	1,600		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	1,600		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,700		17	170		1
04688	Benzoic acid	65-85-0	500	J	170	510		1
04688	Benzyl alcohol	100-51-6	1,600		170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		17	170		1
04688	Butylbenzylphthalate	85-68-7	1,700		17	170		1
04688	Di-n-butylphthalate	84-74-2	1,700		17	170		1
04688	Carbazole	86-74-8	1,600		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,500		34	170		1
04688	4-Chloroaniline	106-47-8	570		68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600		17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		17	170		1
04688	2-Chloronaphthalene	91-58-7	1,600		17	170		1
04688	2-Chlorophenol	95-57-8	1,700		17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,500		34	170		1
04688	Chrysene	218-01-9	1,600		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	1,900		17	170		1
04688	Dibenzofuran	132-64-9	1,500		17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,500		17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,500		17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,500		17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,000		100	340		1
04688	2,4-Dichlorophenol	120-83-2	1,600		17	170		1
04688	Diethylphthalate	84-66-2	1,600		17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,500		34	170		1
04688	3,5-Dimethylphenol	108-68-9	1,600		34	170		1
04688	Dimethylphthalate	131-11-3	1,600		17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,100		170	510		1
04688	2,4-Dinitrophenol	51-28-5	860	J	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	1,500		34	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,600		17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		17	340		1
04688	Fluoranthene	206-44-0	1,700		17	170		1
04688	Fluorene	86-73-7	1,500		17	170		1
04688	Hexachlorobenzene	118-74-1	1,800		17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-228-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353028
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobutadiene	87-68-3	1,600		68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	2,800		170	510		1
04688	Hexachloroethane	67-72-1	1,500		17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800		17	170		1
04688	Isophorone	78-59-1	1,600		17	170		1
04688	1-Methylnaphthalene	90-12-0	1,500		17	170		1
04688	2-Methylnaphthalene	91-57-6	1,600		17	170		1
04688	2-Methylphenol	95-48-7	1,700		34	170		1
04688	4-Methylphenol	106-44-5	1,600		34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,500		17	170		1
04688	2-Nitroaniline	88-74-4	1,600		17	170		1
04688	3-Nitroaniline	99-09-2	1,400		34	170		1
04688	4-Nitroaniline	100-01-6	1,200		68	170		1
04688	Nitrobenzene	98-95-3	1,600		17	170		1
04688	2-Nitrophenol	88-75-5	1,500		17	170		1
04688	4-Nitrophenol	100-02-7	1,300		170	510		1
04688	N-Nitrosodimethylamine	62-75-9	1,500		34	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500		17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700		17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,700		17	170		1
04688	Pentachlorophenol	87-86-5	1,300		170	510		1
04688	Phenanthrene	85-01-8	1,700		17	170		1
04688	Phenol	108-95-2	1,500		17	170		1
04688	Pyrene	129-00-0	1,700		17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	1,500		17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,500		34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,600		34	170		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	33		0.68	1.7		1
10138	Acenaphthylene	208-96-8	34		0.34	1.7		1
10138	Anthracene	120-12-7	46		0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	72		0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	51		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	110		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	21		0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	76		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	41		6.1	18		1
10138	Di-n-butylphthalate	84-74-2	45		6.1	18		1

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Sample Description: SL-228-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353028
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Chrysene	218-01-9	140		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	20		0.68	1.7		1
10138	Diethylphthalate	84-66-2	36		6.1	18		1
10138	Dimethylphthalate	131-11-3	36		6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	51		6.1	18		1
10138	Fluoranthene	206-44-0	200		0.68	1.7		1
10138	Fluorene	86-73-7	36		0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	25		0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	32		0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	32		0.68	1.7		1
10138	Naphthalene	91-20-3	32		0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	36		0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	37		6.1	18		1
10138	Phenanthrene	85-01-8	74		0.68	1.7		1
10138	Pyrene	129-00-0	150		0.68	1.7		1
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,200		61	120		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,100		41	120		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	240		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	240		1
10132	1,3-Dinitrobenzene	99-65-0	2,200		41	120		1
10132	2,4-Dinitrotoluene	121-14-2	2,100		41	120		1
10132	2,6-Dinitrotoluene	606-20-2	2,100		41	120		1
10132	HMX	2691-41-0	1,900		100	310		1
10132	Nitrobenzene	98-95-3	2,100		41	120		1
10132	Nitroglycerin	55-63-0	41,000		820	2,400		1
10132	2-Nitrotoluene	88-72-2	2,100		82	120		1
10132	3-Nitrotoluene	99-08-1	2,300		100	120		1
10132	4-Nitrotoluene	99-99-0	2,100		82	120		1
10132	PETN	78-11-5	50,000		820	2,400		1
10132	RDX	121-82-4	1,800		51	120		1
10132	Tetryl	479-45-8	1,700		62	120		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,100		41	120		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,200		41	120		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	4.8		1.2	3.7		1
10401	Dalapon	75-99-0	8.8	J	4.5	9.2		1
10401	2,4-DB	94-82-6	9.0		0.63	1.7		1
10401	Dicamba	1918-00-9	0.71	J	0.41	1.2		1
10401	Dinoseb	88-85-7	0.98	J	0.82	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	8.2		0.82	1.7		1
10401	MCPA	94-74-6	100	J	77	250		1
10401	MCPP (Mecoprop)	93-65-2	710		76	250		1
10401	2,4,5-T	93-76-5	0.25		0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.32		0.076	0.17		1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-228-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353028
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	4,800		610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.29		0.067	0.17		1
01363	Alpha BHC	319-84-6	0.23		0.035	0.17		1
01363	Beta BHC	319-85-7	0.30		0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.28		0.035	0.17		1
01363	Chlordane	57-74-9	5.8		0.82	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	3.4		0.34	1.7		5
01363	p,p-DDT	50-29-3	7.7		0.34	1.7		5
01363	Delta BHC	319-86-8	0.44		0.037	0.17		1
01363	Dieldrin	60-57-1	1.1		0.067	0.35		1
01363	Endosulfan I	959-98-8	0.20		0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.61		0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.71		0.067	0.35		1
01363	Endrin	72-20-8	0.57		0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.84		0.067	0.35		1
01363	Endrin Ketone	53494-70-5	0.73		0.067	0.35		1
01363	Heptachlor	76-44-8	0.37		0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.47		0.035	0.17		1
01363	Methoxychlor	72-43-5	3.8		0.35	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17		5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17		5
10225	Aroclor 5460	11126-42-4	22		5.1	17		5
10225	PCB-1016	12674-11-2	18		1.7	8.7		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.7		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.7		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.7		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.7		5
10225	PCB-1254	11097-69-1	22		1.7	8.7		5
10225	PCB-1260	11096-82-5	24		2.0	8.7		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.7		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.7		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,100		100	510		1
10501	Isopropanol	67-63-0	2,300		100	510		1
10501	Methanol	67-56-1	2,200		100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	25		5.1	10		1
08283	Ethylene glycol	107-21-1	87		5.1	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-228-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353028
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	120		5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.3	J	1.3	3.6		1
10318	o-Terphenyl	84-15-1	1.7	J	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	J	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.82	J	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	5.1		0.41	1.2		1
10199	EFH (C21-C30)	n.a.	19		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	44		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.85	J	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,400		6.11	20.2		1
07914	Boron	7440-42-8	201		0.363	5.05		1
01650	Calcium	7440-70-2	3,610		2.52	20.2		1
01654	Iron	7439-89-6	18,400		2.63	20.2		1
01656	Lithium	7439-93-2	123		0.63	2.0		1
01657	Magnesium	7439-95-4	4,290		0.444	10.1		1
06958	Manganese	7439-96-5	375		0.0363	0.505		1
10145	Phosphorus	7723-14-0	495		0.353	10.1		1
01662	Potassium	7440-09-7	4,860		11.4	50.5		1
01667	Sodium	7440-23-5	1,050		6.01	101		1
07968	Strontium	7440-24-6	124		0.0252	0.505		1
06969	Tin	7440-31-5	376		0.323	10.1		1
06970	Titanium	7440-32-6	1,240		0.0717	1.01		1
10146	Zirconium	7440-67-7	94.5		0.464	5.05		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.488		0.0732	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.13		0.0792	0.396		2
06126	Barium	7440-39-3	114		0.105	0.396		2
06127	Beryllium	7440-41-7	1.24		0.0158	0.0990		2
06128	Cadmium	7440-43-9	1.38		0.0435	0.0990		2
06131	Chromium	7440-47-3	27.7		0.119	0.396		2
06132	Cobalt	7440-48-4	52.5		0.0198	0.0990		2
06133	Copper	7440-50-8	21.7		0.0792	0.396		2
06135	Lead	7439-92-1	23.6		0.0101	0.198		2
06138	Molybdenum	7439-98-7	9.96		0.0495	0.0990		2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-228-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353028
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06139	Nickel	7440-02-0	24.6	0.0990	0.396		2
06141	Selenium	7782-49-2	2.04	0.0574	0.396		2
06142	Silver	7440-22-4	10.4	0.0141	0.0990		2
06145	Thallium	7440-28-0	0.650	0.0297	0.0990		2
06148	Vanadium	7440-62-2	38.7	0.0218	0.0990		2
06149	Zinc	7440-66-6	84.1	0.554	2.97		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.204	0.0070	0.100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	1.9	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11213SLA026	08/10/2011 21:07	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLL026	08/15/2011 08:13	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11213SLC026	08/04/2011 15:33	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11213SLA026	08/02/2011 08:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11213SLC026	08/02/2011 08:25	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLL026	08/03/2011 06:00	Joseph S Feister	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112140015A	08/05/2011 06:43	Michele D Hamilton	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112070008A	07/28/2011 03:15	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112150006A	08/05/2011 01:29	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140012A	08/25/2011 01:00	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140012A	08/25/2011 01:15	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112140010A	08/04/2011 07:02	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112140012A	08/02/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112140010A	08/02/2011 16:20	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112150006A	08/03/2011 20:00	Elaine F Stoltzfus	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112070008A	07/26/2011 13:00	Kelli M Barto	1

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Sample Description: SL-228-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353028
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11137	Energetics Extraction	SW-846 8330	1	112140015A	08/03/2011 00:45	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112080024A	07/28/2011 19:39	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112040001A	07/23/2011 12:38	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112140032A	08/04/2011 20:31	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112140001A	08/03/2011 21:07	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112140001A	08/02/2011 09:30	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112140032A	08/03/2011 06:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112080024A	07/28/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112040001A	07/23/2011 06:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112095708003	08/02/2011 11:07	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112095708003	08/02/2011 11:07	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112095708003	08/02/2011 11:07	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112095708003	08/02/2011 11:07	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112095708003	08/02/2011 11:07	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112095708003	08/02/2011 11:07	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112095708003	08/02/2011 11:07	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112095708003	08/02/2011 11:07	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112095708003	08/02/2011 11:07	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112095708003	08/02/2011 11:07	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112095708003	08/02/2011 11:07	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112095708003	08/03/2011 10:43	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112095708003	08/02/2011 11:07	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112095708003	08/02/2011 11:07	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112091026003A	08/01/2011 08:12	David K Beck	2
06125	Arsenic	SW-846 6020	1	112091026003A	08/01/2011 08:12	David K Beck	2
06126	Barium	SW-846 6020	1	112091026003D	08/01/2011 08:12	David K Beck	2
06127	Beryllium	SW-846 6020	1	112091026003A	08/01/2011 08:12	David K Beck	2
06128	Cadmium	SW-846 6020	1	112091026003A	08/01/2011 08:12	David K Beck	2
06131	Chromium	SW-846 6020	1	112091026003A	08/01/2011 08:12	David K Beck	2
06132	Cobalt	SW-846 6020	1	112091026003A	08/01/2011 08:12	David K Beck	2
06133	Copper	SW-846 6020	1	112091026003A	08/01/2011 08:12	David K Beck	2
06135	Lead	SW-846 6020	1	112091026003A	08/01/2011 08:12	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112091026003C	08/01/2011 08:12	David K Beck	2
06139	Nickel	SW-846 6020	1	112091026003A	08/01/2011 08:12	David K Beck	2
06141	Selenium	SW-846 6020	1	112091026003B	08/01/2011 08:12	David K Beck	2
06142	Silver	SW-846 6020	1	112091026003A	08/01/2011 08:12	David K Beck	2
06145	Thallium	SW-846 6020	1	112091026003A	08/01/2011 08:12	David K Beck	2
06148	Vanadium	SW-846 6020	1	112091026003A	08/01/2011 08:12	David K Beck	2
06149	Zinc	SW-846 6020	1	112091026003A	08/01/2011 08:12	David K Beck	2
00159	Mercury	SW-846 7471A	1	112095711004	07/29/2011 12:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112095708003	07/28/2011 08:34	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112091026003	07/29/2011 08:52	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112095711004	07/28/2011 10:31	James L Mertz	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-228-SA6-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353028
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-228-SA6-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353029
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	4.4	U	4.4	4.4		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

Reporting limits were raised for 2,4-DB due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	3.8		0.82	3.5		1
01363	p,p-DDD	72-54-8	0.37	U	0.37	0.37		1
01363	p,p-DDE	72-55-9	3.4		0.34	1.7		5
01363	p,p-DDT	50-29-3	7.8		0.34	1.7		5
01363	Delta BHC	319-86-8	0.11	J	0.037	0.17		1
01363	Dieldrin	60-57-1	0.64	U	0.64	0.64		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.21	U	0.21	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.20	U	0.20	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.24	J	0.067	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.065	J	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.14	J	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.28	U	0.28	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Reporting limits were raised due to interference from the sample matrix.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	14,700		6.11	20.2		1
07914	Boron	7440-42-8	3.34	J	0.363	5.05		1
01650	Calcium	7440-70-2	3,270		2.52	20.2		1
01654	Iron	7439-89-6	19,500		2.63	20.2		1
01656	Lithium	7439-93-2	21.8		0.63	2.0		1
01657	Magnesium	7439-95-4	4,310		0.444	10.1		1
06958	Manganese	7439-96-5	348		0.0363	0.505		1
10145	Phosphorus	7723-14-0	431		0.353	10.1		1
01662	Potassium	7440-09-7	3,740		11.4	50.5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-228-SA6-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353029
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	72.9	J	6.01	101		1
07968	Strontium	7440-24-6	25.3		0.0252	0.505		1
06969	Tin	7440-31-5	2.73	J	0.323	10.1		1
06970	Titanium	7440-32-6	988		0.0717	1.01		1
10146	Zirconium	7440-67-7	2.59	J	0.464	5.05		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.210		0.0747	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.52		0.0807	0.404		2
06126	Barium	7440-39-3	104		0.107	0.404		2
06127	Beryllium	7440-41-7	0.517		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.495		0.0444	0.101		2
06131	Chromium	7440-47-3	18.6		0.121	0.404		2
06132	Cobalt	7440-48-4	5.57		0.0202	0.101		2
06133	Copper	7440-50-8	12.6		0.0807	0.404		2
06135	Lead	7439-92-1	21.5		0.0103	0.202		2
06138	Molybdenum	7439-98-7	0.595		0.0505	0.101		2
06139	Nickel	7440-02-0	14.8		0.101	0.404		2
06141	Selenium	7782-49-2	0.144	J	0.0585	0.404		2
06142	Silver	7440-22-4	0.550		0.0143	0.101		2
06145	Thallium	7440-28-0	0.254		0.0303	0.101		2
06148	Vanadium	7440-62-2	30.3		0.0222	0.101		2
06149	Zinc	7440-66-6	77.0		0.565	3.03		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0341	J	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.81	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.81	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.92		0.0100	0.0100		1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-228-SA6-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353029
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11626	28a Moisture Content by 160.3	n.a.	1.9	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	1.9	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112150006A	08/05/2011 01:56	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140012A	08/25/2011 01:30	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140012A	08/25/2011 01:46	Melissa McDermott	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112140012A	08/02/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112150006A	08/03/2011 20:00	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112095708003	08/02/2011 10:58	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112095708003	08/02/2011 10:58	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112095708003	08/02/2011 10:58	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112095708003	08/02/2011 10:58	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112095708003	08/02/2011 10:58	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112095708003	08/02/2011 10:58	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112095708003	08/02/2011 10:58	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112095708003	08/02/2011 10:58	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112095708003	08/02/2011 10:58	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112095708003	08/02/2011 10:58	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112095708003	08/02/2011 10:58	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112095708003	08/03/2011 10:36	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112095708003	08/02/2011 10:58	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112095708003	08/02/2011 10:58	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112091026003A	08/01/2011 08:06	David K Beck	2
06125	Arsenic	SW-846 6020	1	112091026003A	08/01/2011 08:06	David K Beck	2
06126	Barium	SW-846 6020	1	112091026003D	08/01/2011 08:06	David K Beck	2
06127	Beryllium	SW-846 6020	1	112091026003A	08/01/2011 08:06	David K Beck	2
06128	Cadmium	SW-846 6020	1	112091026003A	08/01/2011 08:06	David K Beck	2
06131	Chromium	SW-846 6020	1	112091026003A	08/01/2011 08:06	David K Beck	2
06132	Cobalt	SW-846 6020	1	112091026003A	08/01/2011 08:06	David K Beck	2
06133	Copper	SW-846 6020	1	112091026003A	08/01/2011 08:06	David K Beck	2
06135	Lead	SW-846 6020	1	112091026003A	08/01/2011 08:06	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112091026003C	08/01/2011 08:06	David K Beck	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-228-SA6-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353029
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0601 SDG#: DE206-01DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06139	Nickel	SW-846 6020	1	112091026003A	08/01/2011 08:06	David K Beck	2
06141	Selenium	SW-846 6020	1	112091026003B	08/01/2011 08:06	David K Beck	2
06142	Silver	SW-846 6020	1	112091026003A	08/01/2011 08:06	David K Beck	2
06145	Thallium	SW-846 6020	1	112091026003A	08/01/2011 08:06	David K Beck	2
06148	Vanadium	SW-846 6020	1	112091026003A	08/01/2011 08:06	David K Beck	2
06149	Zinc	SW-846 6020	1	112091026003A	08/01/2011 08:06	David K Beck	2
00159	Mercury	SW-846 7471A	1	112095711004	07/29/2011 12:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112095708003	07/28/2011 08:34	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112091026003	07/29/2011 08:52	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112095711004	07/28/2011 10:31	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11214284202A	08/03/2011 12:42	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11214284202A	08/03/2011 12:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11210373203A	08/02/2011 17:55	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11221243201B	08/10/2011 18:30	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11215102201A	08/03/2011 18:32	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11214284202A	08/02/2011 17:55	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11210373203A	07/29/2011 16:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11215102201A	08/03/2011 09:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039401A	08/02/2011 09:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243201B	08/03/2011 09:00	Michelle L Lalli	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

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Analysis Report

Sample Description: SL-237-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-237-SA6-SS-0.0-0.5

LLI Sample # SW 6353030
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:00

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0602 SDG#: DE206-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Chrysene	218-01-9	18	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Fluoranthene	206-44-0	19	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-237-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-237-SA6-SS-0.0-0.5

LLI Sample # SW 6353030
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:00

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0602 SDG#: DE206-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	18	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.35	J	0.34	1.7		1
10138	Anthracene	120-12-7	1.3	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	5.7		0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	5.6		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	13		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	2.3		0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	4.9		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	160		6.1	18		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.3		0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	5.9		0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	11	U	11	11		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

Reporting limits were raised for 2,4-DB due to interference from the sample matrix.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-237-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-237-SA6-SS-0.0-0.5

LLI Sample # SW 6353030
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:00

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0602 SDG#: DE206-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.087	U	0.087	0.17		1
01363	Chlordane	57-74-9	9.1		0.81	3.5		1
01363	p,p-DDD	72-54-8	1.4	U	1.4	1.4		1
01363	p,p-DDE	72-55-9	18		1.3	6.9		20
01363	p,p-DDT	50-29-3	39		1.3	6.9		20
01363	Delta BHC	319-86-8	0.52	U	0.52	0.52		1
01363	Dieldrin	60-57-1	2.3	U	2.3	2.3		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.66	U	0.66	0.66		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.54	U	0.54	0.54		1
01363	Endrin Aldehyde	7421-93-4	0.94	U	0.94	0.94		1
01363	Endrin Ketone	53494-70-5	0.36		0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.63	U	0.63	0.63		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.23	U	0.23	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17		5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17		5
10225	Aroclor 5460	11126-42-4	14	J	5.1	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.6		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6		5
10225	PCB-1254	11097-69-1	36		1.7	8.6		5
10225	PCB-1260	11096-82-5	2.0	U	2.0	8.6		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,400		6.15	20.3		1
07914	Boron	7440-42-8	2.73	J	0.366	5.09		1
01650	Calcium	7440-70-2	2,890		2.54	20.3		1
01654	Iron	7439-89-6	19,000		2.66	20.3		1
01656	Lithium	7439-93-2	25.5		0.63	2.0		1
01657	Magnesium	7439-95-4	4,420		0.448	10.2		1
06958	Manganese	7439-96-5	308		0.0366	0.509		1
10145	Phosphorus	7723-14-0	448		0.356	10.2		1
01662	Potassium	7440-09-7	3,200		11.5	50.9		1
01667	Sodium	7440-23-5	77.9	J	6.05	102		1
07968	Strontium	7440-24-6	22.3		0.0254	0.509		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-237-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-237-SA6-SS-0.0-0.5

LLI Sample # SW 6353030
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:00

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0602 SDG#: DE206-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	2.89	J	0.326	10.2		1
06970	Titanium	7440-32-6	1,010		0.0722	1.02		1
10146	Zirconium	7440-67-7	2.62	J	0.468	5.09		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0788	J	0.0731	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.70		0.0790	0.395		2
06126	Barium	7440-39-3	87.8		0.105	0.395		2
06127	Beryllium	7440-41-7	0.508		0.0158	0.0988		2
06128	Cadmium	7440-43-9	0.630		0.0435	0.0988		2
06131	Chromium	7440-47-3	17.9		0.119	0.395		2
06132	Cobalt	7440-48-4	5.28		0.0198	0.0988		2
06133	Copper	7440-50-8	12.3		0.0790	0.395		2
06135	Lead	7439-92-1	18.8		0.0101	0.198		2
06138	Molybdenum	7439-98-7	0.480		0.0494	0.0988		2
06139	Nickel	7440-02-0	15.7		0.0988	0.395		2
06141	Selenium	7782-49-2	0.149	J	0.0573	0.395		2
06142	Silver	7440-22-4	0.467		0.0140	0.0988		2
06145	Thallium	7440-28-0	0.216		0.0296	0.0988		2
06148	Vanadium	7440-62-2	30.0		0.0217	0.0988		2
06149	Zinc	7440-66-6	93.7		0.553	2.96		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0370	J	0.0070	0.0996		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.62		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-237-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-237-SA6-SS-0.0-0.5

LLI Sample # SW 6353030
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:00

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0602 SDG#: DE206-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLL026	08/15/2011 08:38	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11213SLC026	08/04/2011 16:05	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11213SLC026	08/02/2011 08:25	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLL026	08/03/2011 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112150006A	08/05/2011 03:19	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140012A	08/25/2011 04:02	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140012A	08/25/2011 04:17	Melissa McDermott	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112140010A	08/04/2011 08:35	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112140012A	08/02/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112140010A	08/02/2011 16:20	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112150006A	08/03/2011 20:00	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112095708003	08/02/2011 11:15	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112095708003	08/02/2011 11:15	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112095708003	08/02/2011 11:15	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112095708003	08/02/2011 11:15	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112095708003	08/02/2011 11:15	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112095708003	08/02/2011 11:15	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112095708003	08/02/2011 11:15	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112095708003	08/02/2011 11:15	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112095708003	08/02/2011 11:15	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112095708003	08/02/2011 11:15	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112095708003	08/02/2011 11:15	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112095708003	08/03/2011 10:51	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112095708003	08/02/2011 11:15	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112095708003	08/02/2011 11:15	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112091026003A	08/01/2011 08:18	David K Beck	2
06125	Arsenic	SW-846 6020	1	112091026003A	08/01/2011 08:18	David K Beck	2
06126	Barium	SW-846 6020	1	112091026003D	08/01/2011 08:18	David K Beck	2
06127	Beryllium	SW-846 6020	1	112091026003A	08/01/2011 08:18	David K Beck	2
06128	Cadmium	SW-846 6020	1	112091026003A	08/01/2011 08:18	David K Beck	2
06131	Chromium	SW-846 6020	1	112091026003A	08/01/2011 08:18	David K Beck	2
06132	Cobalt	SW-846 6020	1	112091026003A	08/01/2011 08:18	David K Beck	2
06133	Copper	SW-846 6020	1	112091026003A	08/01/2011 08:18	David K Beck	2
06135	Lead	SW-846 6020	1	112091026003A	08/01/2011 08:18	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112091026003C	08/01/2011 08:18	David K Beck	2
06139	Nickel	SW-846 6020	1	112091026003A	08/01/2011 08:18	David K Beck	2
06141	Selenium	SW-846 6020	1	112091026003B	08/01/2011 08:18	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-237-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-237-SA6-SS-0.0-0.5

LLI Sample # SW 6353030
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:00

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0602 SDG#: DE206-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112091026003A	08/01/2011 08:18	David K Beck	2
06145	Thallium	SW-846 6020	1	112091026003A	08/01/2011 08:18	David K Beck	2
06148	Vanadium	SW-846 6020	1	112091026003A	08/01/2011 08:18	David K Beck	2
06149	Zinc	SW-846 6020	1	112091026003A	08/01/2011 08:18	David K Beck	2
00159	Mercury	SW-846 7471A	1	112095711004	07/29/2011 12:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112095708003	07/28/2011 08:34	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112091026003	07/29/2011 08:52	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112095711004	07/28/2011 10:31	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11214284202A	08/03/2011 13:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11210373203A	08/02/2011 18:41	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11221243201B	08/10/2011 18:51	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11214284202A	08/02/2011 17:55	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11210373203A	07/29/2011 16:00	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039401A	08/02/2011 09:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243201B	08/03/2011 09:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401A	07/28/2011 20:37	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-240-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA6-SS-0.0-0.5

LLI Sample # SW 6353031
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:01

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0603 SDG#: DE206-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	16.6	U	16.6	33.3		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-240-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA6-SS-0.0-0.5

LLI Sample # SW 6353031
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:01

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0603 SDG#: DE206-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.68	U	0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	0.68	U	0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7		1
10138	Pyrene	129-00-0	0.68	U	0.68	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	60	U	60	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	80	U	80	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	80	U	80	240	10000000	1

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Sample Description: SL-240-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA6-SS-0.0-0.5

LLI Sample # SW 6353031
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:01

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0603 SDG#: DE206-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	99	U	99	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	800	U	800	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	80	U	80	120	10000000	1
10132	3-Nitrotoluene	99-08-1	99	U	99	120	10000000	1
10132	4-Nitrotoluene	99-99-0	80	U	80	120	10000000	1
10132	PETN	78-11-5	800	U	800	2,400	10000000	1
10132	RDX	121-82-4	50	U	50	120	10000000	1
10132	Tetryl	479-45-8	61	U	61	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	6.1	U	6.1	6.1		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	120	U	120	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	Reporting limits were raised for MCPA and 2,4-DB due to interference from the sample matrix.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1

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Sample Description: SL-240-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA6-SS-0.0-0.5

LLI Sample # SW 6353031
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:01

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0603 SDG#: DE206-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	3.3	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.17	J	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.38		0.067	0.34		1
01363	p,p-DDT	50-29-3	0.87		0.067	0.34		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.16	J	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.066	J	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.065	U	0.065	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.30	U	0.30	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	5.4		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	2.9		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-240-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA6-SS-0.0-0.5

LLI Sample # SW 6353031
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:01

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0603 SDG#: DE206-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	1.3		0.40	1.2		1
10199	EFH (C21-C30)	n.a.	4.3		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	16		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,000		6.14	20.3		1
07914	Boron	7440-42-8	2.19	J	0.365	5.07		1
01650	Calcium	7440-70-2	3,300		2.54	20.3		1
01654	Iron	7439-89-6	24,200		2.65	20.3		1
01656	Lithium	7439-93-2	30.6		0.63	2.0		1
01657	Magnesium	7439-95-4	5,570		0.446	10.1		1
06958	Manganese	7439-96-5	352		0.0365	0.507		1
10145	Phosphorus	7723-14-0	537		0.355	10.1		1
01662	Potassium	7440-09-7	4,990		11.5	50.7		1
01667	Sodium	7440-23-5	73.8	J	6.03	101		1
07968	Strontium	7440-24-6	25.1		0.0254	0.507		1
06969	Tin	7440-31-5	2.88	J	0.325	10.1		1
06970	Titanium	7440-32-6	1,270		0.0720	1.01		1
10146	Zirconium	7440-67-7	2.47	J	0.467	5.07		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0965	J	0.0736	0.199		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.80		0.0795	0.398		2
06126	Barium	7440-39-3	105		0.105	0.398		2
06127	Beryllium	7440-41-7	0.608		0.0159	0.0994		2
06128	Cadmium	7440-43-9	0.278		0.0437	0.0994		2
06131	Chromium	7440-47-3	27.3		0.119	0.398		2
06132	Cobalt	7440-48-4	7.25		0.0199	0.0994		2
06133	Copper	7440-50-8	13.5		0.0795	0.398		2
06135	Lead	7439-92-1	13.6		0.0101	0.199		2
06138	Molybdenum	7439-98-7	0.644		0.0497	0.0994		2
06139	Nickel	7440-02-0	23.2		0.0994	0.398		2
06141	Selenium	7782-49-2	0.166	J	0.0577	0.398		2
06142	Silver	7440-22-4	0.195		0.0141	0.0994		2
06145	Thallium	7440-28-0	0.298		0.0298	0.0994		2
06148	Vanadium	7440-62-2	42.0		0.0219	0.0994		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-240-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA6-SS-0.0-0.5

LLI Sample # SW 6353031
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:01

Submitted: 07/22/2011 10:10
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0603 SDG#: DE206-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg		mg/kg	mg/kg	mg/kg	
06149	Zinc	7440-66-6	68.3		0.557	2.98		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0184	J	0.0066	0.0942		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.80	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.9		0.80	1.5		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	6.41		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	1.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11213SLA026	08/10/2011 21:46	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLL026	08/15/2011 09:03	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11213SLC026	08/04/2011 16:38	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11213SLA026	08/02/2011 08:30	Olivia Arosemena	1

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Sample Description: SL-240-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA6-SS-0.0-0.5

LLI Sample # SW 6353031
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:01

Submitted: 07/22/2011 10:10
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0603 SDG#: DE206-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11213SLC026	08/02/2011 08:25	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLL026	08/03/2011 06:00	Joseph S Feister	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112140015A	08/05/2011 07:25	Michele D Hamilton	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112070008A	07/28/2011 03:25	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112150006A	08/05/2011 03:47	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140012A	08/24/2011 23:29	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112140010A	08/04/2011 08:53	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112140012A	08/02/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112140010A	08/02/2011 16:20	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112150006A	08/03/2011 20:00	Elaine F Stoltzfus	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112070008A	07/26/2011 13:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112140015A	08/03/2011 00:45	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112080024A	07/28/2011 19:54	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112040001A	07/23/2011 10:05	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112140032A	08/04/2011 16:05	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112140001A	08/03/2011 19:30	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112140001A	08/02/2011 09:30	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112140032A	08/03/2011 06:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112080024A	07/28/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112040001A	07/23/2011 06:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112095708003	08/02/2011 11:28	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112095708003	08/02/2011 11:28	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112095708003	08/02/2011 11:28	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112095708003	08/02/2011 11:28	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112095708003	08/02/2011 11:28	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112095708003	08/02/2011 11:28	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112095708003	08/02/2011 11:28	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112095708003	08/02/2011 11:28	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112095708003	08/02/2011 11:28	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112095708003	08/02/2011 11:28	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112095708003	08/02/2011 11:28	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112095708003	08/03/2011 10:55	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112095708003	08/02/2011 11:28	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112095708003	08/02/2011 11:28	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112091026003A	08/01/2011 08:21	David K Beck	2
06125	Arsenic	SW-846 6020	1	112091026003A	08/01/2011 08:21	David K Beck	2
06126	Barium	SW-846 6020	1	112091026003D	08/01/2011 08:21	David K Beck	2
06127	Beryllium	SW-846 6020	1	112091026003A	08/01/2011 08:21	David K Beck	2

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Sample Description: SL-240-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA6-SS-0.0-0.5

LLI Sample # SW 6353031
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:01

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0603 SDG#: DE206-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112091026003A	08/01/2011 08:21	David K Beck	2
06131	Chromium	SW-846 6020	1	112091026003A	08/01/2011 08:21	David K Beck	2
06132	Cobalt	SW-846 6020	1	112091026003A	08/01/2011 08:21	David K Beck	2
06133	Copper	SW-846 6020	1	112091026003A	08/01/2011 08:21	David K Beck	2
06135	Lead	SW-846 6020	1	112091026003A	08/01/2011 08:21	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112091026003C	08/01/2011 08:21	David K Beck	2
06139	Nickel	SW-846 6020	1	112091026003A	08/01/2011 08:21	David K Beck	2
06141	Selenium	SW-846 6020	1	112091026003B	08/01/2011 08:21	David K Beck	2
06142	Silver	SW-846 6020	1	112091026003A	08/01/2011 08:21	David K Beck	2
06145	Thallium	SW-846 6020	1	112091026003A	08/01/2011 08:21	David K Beck	2
06148	Vanadium	SW-846 6020	1	112091026003A	08/01/2011 08:21	David K Beck	2
06149	Zinc	SW-846 6020	1	112091026003A	08/01/2011 08:21	David K Beck	2
00159	Mercury	SW-846 7471A	1	112095711004	07/29/2011 12:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112095708003	07/28/2011 08:34	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112091026003	07/29/2011 08:52	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112095711004	07/28/2011 10:31	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11214284202A	08/03/2011 13:25	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11214284202A	08/03/2011 13:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11210373203A	08/02/2011 19:27	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11221243201B	08/10/2011 18:58	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11215102201A	08/03/2011 18:33	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11214284202A	08/02/2011 17:55	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11210373203A	07/29/2011 16:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11215102201A	08/03/2011 09:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039401A	08/02/2011 09:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243201B	08/03/2011 09:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-314-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-314-SA6-SS-0.0-0.5

LLI Sample # SW 6353032
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 13:14

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0604 SDG#: DE206-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(b)fluoranthene	205-99-2	21	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1

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SSFL Area IV Collocated Soil Sampling
SL-314-SA6-SS-0.0-0.5

LLI Sample # SW 6353032
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 13:14

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0604 SDG#: DE206-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	1.1	J	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.36	J	0.34	1.7		1
10138	Anthracene	120-12-7	2.4		0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	13		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	10		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	3.8		0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	8.5		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	21		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	1.0	J	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	27		6.1	18		1
10138	Fluoranthene	206-44-0	34		0.67	1.7		1
10138	Fluorene	86-73-7	0.70	J	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.2		0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.84	J	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	15		0.67	1.7		1
10138	Pyrene	129-00-0	29		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	0.62	U	0.62	1.7		1
10401	Dicamba	1918-00-9	0.60	J	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	240	J	75	250		1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
	MCPP was detected in the method blank. MCPP was not detected in the method blank associated with the reextraction. The hold time had expired prior to the reextraction therefore, all results are reported from the original							

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Sample Description: SL-314-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-314-SA6-SS-0.0-0.5

LLI Sample # SW 6353032
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 13:14

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Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0604 SDG#: DE206-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	extract. Similar results were obtained in both extracts with the exception that MCPP was not detected in the reextract.							
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.1		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	1.3	U	1.3	3.4		20
01363	Alpha BHC	319-84-6	0.69	U	0.69	3.4		20
01363	Beta BHC	319-85-7	1.2	U	1.2	3.4		20
01363	Gamma BHC - Lindane	58-89-9	0.69	U	0.69	3.4		20
01363	Chlordane	57-74-9	16	U	16	69		20
01363	p,p-DDD	72-54-8	44		1.3	6.9		20
01363	p,p-DDE	72-55-9	1,600		67	340		1000
01363	p,p-DDT	50-29-3	780		67	340		1000
01363	Delta BHC	319-86-8	4.7		0.73	3.4		20
01363	Dieldrin	60-57-1	34		1.3	6.9		20
01363	Endosulfan I	959-98-8	0.89	U	0.89	3.4		20
01363	Endosulfan II	33213-65-9	5.0	U	5.0	6.9		20
01363	Endosulfan Sulfate	1031-07-8	1.3	U	1.3	6.9		20
01363	Endrin	72-20-8	1.3	U	1.3	6.9		20
01363	Endrin Aldehyde	7421-93-4	2.7	U	2.7	6.9		20
01363	Endrin Ketone	53494-70-5	1.3	U	1.3	6.9		20
01363	Heptachlor	76-44-8	1.2	U	1.2	3.4		20
01363	Heptachlor Epoxide	1024-57-3	3.0	U	3.0	3.4		20
01363	Methoxychlor	72-43-5	6.9	U	6.9	34		20
01363	Mirex	2385-85-5	1.3	U	1.3	6.9		20
01363	Toxaphene	8001-35-2	45	U	45	130		20
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	10	U	10	33		10
10225	Aroclor 5442	12642-23-8	10	U	10	33		10
10225	Aroclor 5460	11126-42-4	42		10	33		10
10225	PCB-1016	12674-11-2	3.3	U	3.3	17		10
10225	PCB-1221	11104-28-2	3.3	U	3.3	17		10
10225	PCB-1232	11141-16-5	3.3	U	3.3	17		10
10225	PCB-1242	53469-21-9	3.3	U	3.3	17		10
10225	PCB-1248	12672-29-6	3.3	U	3.3	17		10
10225	PCB-1254	11097-69-1	3.3	U	3.3	17		10
10225	PCB-1260	11096-82-5	29		3.9	17		10
10225	PCB-1262	37324-23-5	3.3	U	3.3	17		10
10225	PCB-1268	11100-14-4	3.3	U	3.3	17		10
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	19,900		5.83	19.3		1
07914	Boron	7440-42-8	3.91	J	0.347	4.82		1
01650	Calcium	7440-70-2	4,890		2.41	19.3		1

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Sample Description: SL-314-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-314-SA6-SS-0.0-0.5

LLI Sample # SW 6353032
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 13:14

Submitted: 07/22/2011 10:10
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0604 SDG#: DE206-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	24,600		2.52	19.3		1
01656	Lithium	7439-93-2	31.1		0.60	1.9		1
01657	Magnesium	7439-95-4	5,520		0.424	9.64		1
06958	Manganese	7439-96-5	405		0.0347	0.482		1
10145	Phosphorus	7723-14-0	713		0.337	9.64		1
01662	Potassium	7440-09-7	4,960		10.9	48.2		1
01667	Sodium	7440-23-5	106		5.74	96.4		1
07968	Strontium	7440-24-6	41.2		0.0241	0.482		1
06969	Tin	7440-31-5	3.37	J	0.308	9.64		1
06970	Titanium	7440-32-6	1,270		0.0684	0.964		1
10146	Zirconium	7440-67-7	2.92	J	0.443	4.82		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.104	J	0.0727	0.197		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.77		0.0786	0.393		2
06126	Barium	7440-39-3	130		0.104	0.393		2
06127	Beryllium	7440-41-7	0.651		0.0157	0.0983		2
06128	Cadmium	7440-43-9	1.77		0.0432	0.0983		2
06131	Chromium	7440-47-3	40.9		0.118	0.393		2
06132	Cobalt	7440-48-4	7.19		0.0197	0.0983		2
06133	Copper	7440-50-8	88.0		0.0786	0.393		2
06135	Lead	7439-92-1	80.6		0.0100	0.197		2
06138	Molybdenum	7439-98-7	0.848		0.0491	0.0983		2
06139	Nickel	7440-02-0	21.3		0.0983	0.393		2
06141	Selenium	7782-49-2	0.139	J	0.0570	0.393		2
06142	Silver	7440-22-4	1.38		0.0140	0.0983		2
06145	Thallium	7440-28-0	0.318		0.0295	0.0983		2
06148	Vanadium	7440-62-2	39.2		0.0216	0.0983		2
06149	Zinc	7440-66-6	254		2.75	14.7		10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0759	J	0.0066	0.0941		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.80	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1		0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

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Sample Description: SL-314-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-314-SA6-SS-0.0-0.5

LLI Sample # SW 6353032
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 13:14

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

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E0604 SDG#: DE206-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.34	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLL026	08/15/2011	09:53	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11213SLC026	08/04/2011	23:05	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11213SLC026	08/02/2011	08:25	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLL026	08/03/2011	06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112150006A	08/05/2011	04:15	Anita M Dale	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112140035A	08/10/2011	13:07	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140012A	08/25/2011	06:03	Melissa McDermott	20
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140012A	08/26/2011	15:48	Melissa McDermott	1000
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112140010A	08/04/2011	09:12	Sarah M Snyder	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112140012A	08/02/2011	18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112140010A	08/02/2011	16:20	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112150006A	08/03/2011	20:00	Elaine F Stoltzfus	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112140035A	08/03/2011	09:30	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112095708003	08/02/2011	11:32	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112095708003	08/02/2011	11:32	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112095708003	08/02/2011	11:32	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112095708003	08/02/2011	11:32	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112095708003	08/02/2011	11:32	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112095708003	08/02/2011	11:32	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-314-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-314-SA6-SS-0.0-0.5

LLI Sample # SW 6353032
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 13:14

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0604 SDG#: DE206-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	112095708003	08/02/2011 11:32	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112095708003	08/02/2011 11:32	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112095708003	08/02/2011 11:32	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112095708003	08/02/2011 11:32	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112095708003	08/02/2011 11:32	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112095708003	08/03/2011 11:05	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112095708003	08/02/2011 11:32	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112095708003	08/02/2011 11:32	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112091026003A	08/01/2011 08:30	David K Beck	2
06125	Arsenic	SW-846 6020	1	112091026003A	08/01/2011 08:30	David K Beck	2
06126	Barium	SW-846 6020	1	112091026003D	08/01/2011 08:30	David K Beck	2
06127	Beryllium	SW-846 6020	1	112091026003A	08/01/2011 08:30	David K Beck	2
06128	Cadmium	SW-846 6020	1	112091026003A	08/01/2011 08:30	David K Beck	2
06131	Chromium	SW-846 6020	1	112091026003A	08/01/2011 08:30	David K Beck	2
06132	Cobalt	SW-846 6020	1	112091026003A	08/01/2011 08:30	David K Beck	2
06133	Copper	SW-846 6020	1	112091026003A	08/01/2011 08:30	David K Beck	2
06135	Lead	SW-846 6020	1	112091026003A	08/01/2011 08:30	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112091026003C	08/01/2011 08:30	David K Beck	2
06139	Nickel	SW-846 6020	1	112091026003A	08/01/2011 08:30	David K Beck	2
06141	Selenium	SW-846 6020	1	112091026003B	08/01/2011 08:30	David K Beck	2
06142	Silver	SW-846 6020	1	112091026003A	08/01/2011 08:30	David K Beck	2
06145	Thallium	SW-846 6020	1	112091026003A	08/01/2011 08:30	David K Beck	2
06148	Vanadium	SW-846 6020	1	112091026003A	08/01/2011 08:30	David K Beck	2
06149	Zinc	SW-846 6020	1	112091026003A	08/02/2011 14:27	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	112095711004	07/29/2011 12:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112095708003	07/28/2011 08:34	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112091026003	07/29/2011 08:52	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112095711004	07/28/2011 10:31	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11214284202A	08/03/2011 13:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11210373203A	08/02/2011 19:50	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11221243201B	08/10/2011 19:13	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11214284202A	08/02/2011 17:55	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11210373203A	07/29/2011 16:00	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039401A	08/02/2011 09:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243201B	08/03/2011 09:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401A	07/28/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-315-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-315-SA6-SS-0.0-0.5

LLI Sample # SW 6353033
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 13:37

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0605 SDG#: DE206-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	168	U	168	336		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(b)fluoranthene	205-99-2	20	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	20	J	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Chrysene	218-01-9	27	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,500		17	340		1
04688	Fluoranthene	206-44-0	32	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-315-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-315-SA6-SS-0.0-0.5

LLI Sample # SW 6353033
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 13:37

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0605 SDG#: DE206-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	32	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.5		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.5		5
10138	Anthracene	120-12-7	2.2	J	1.7	8.5		5
10138	Benzo(a)anthracene	56-55-3	8.8		3.4	8.5		5
10138	Benzo(a)pyrene	50-32-8	9.0		3.4	8.5		5
10138	Benzo(g,h,i)perylene	191-24-2	4.9	J	3.4	8.5		5
10138	Benzo(k)fluoranthene	207-08-9	7.2	J	3.4	8.5		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.5		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.5		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.5		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.5		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.5		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.5		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.5		5
10138	Phenanthrene	85-01-8	8.3	J	3.4	8.5		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	57	U	57	110	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	38	U	38	110	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	75	U	75	230	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	75	U	75	230	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-315-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-315-SA6-SS-0.0-0.5

LLI Sample # SW 6353033
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 13:37

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0605 SDG#: DE206-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	38	U	38	110	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	38	U	38	110	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	38	U	38	110	10000000	1
10132	HMX	2691-41-0	94	U	94	280	10000000	1
10132	Nitrobenzene	98-95-3	38	U	38	110	10000000	1
10132	Nitroglycerin	55-63-0	750	U	750	2,300	10000000	1
10132	2-Nitrotoluene	88-72-2	75	U	75	110	10000000	1
10132	3-Nitrotoluene	99-08-1	94	U	94	110	10000000	1
10132	4-Nitrotoluene	99-99-0	75	U	75	110	10000000	1
10132	PETN	78-11-5	750	U	750	2,300	10000000	1
10132	RDX	121-82-4	47	U	47	110	10000000	1
10132	Tetryl	479-45-8	58	U	58	110	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	38	U	38	110	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	38	U	38	110	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	2.6	U	2.6	2.6		1
10401	Dicamba	1918-00-9	0.75	J	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	730		76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.46		0.076	0.17		1

MCPP was detected in the method blank. MCPP was not detected in the method blank associated with the reextraction. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that MCPP and 2,4,5-TP were not detected in the reextract.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	750	J	610	1,500		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-315-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-315-SA6-SS-0.0-0.5

LLI Sample # SW 6353033
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 13:37

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0605 SDG#: DE206-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	1.3	U	1.3	3.4		20
01363	Alpha BHC	319-84-6	0.69	U	0.69	3.4		20
01363	Beta BHC	319-85-7	1.2	U	1.2	3.4		20
01363	Gamma BHC - Lindane	58-89-9	0.69	U	0.69	3.4		20
01363	Chlordane	57-74-9	32	J	16	69		20
01363	p,p-DDD	72-54-8	31		1.3	6.9		20
01363	p,p-DDE	72-55-9	460		13	69		200
01363	p,p-DDT	50-29-3	470		34	170		500
01363	Delta BHC	319-86-8	3.8		0.73	3.4		20
01363	Dieldrin	60-57-1	51	J	13	69		200
01363	Endosulfan I	959-98-8	0.90	U	0.90	3.4		20
01363	Endosulfan II	33213-65-9	3.1	U	3.1	6.9		20
01363	Endosulfan Sulfate	1031-07-8	2.6	J	1.3	6.9		20
01363	Endrin	72-20-8	1.3	U	1.3	6.9		20
01363	Endrin Aldehyde	7421-93-4	3.0	J	1.3	6.9		20
01363	Endrin Ketone	53494-70-5	5.1	U	5.1	6.9		20
01363	Heptachlor	76-44-8	1.2	U	1.2	3.4		20
01363	Heptachlor Epoxide	1024-57-3	3.9	U	3.9	3.9		20
01363	Methoxychlor	72-43-5	6.9	U	6.9	34		20
01363	Mirex	2385-85-5	1.3	U	1.3	6.9		20
01363	Toxaphene	8001-35-2	45	U	45	130		20

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	20	U	20	67		20
10225	Aroclor 5442	12642-23-8	20	U	20	67		20
10225	Aroclor 5460	11126-42-4	150		20	67		20
10225	PCB-1016	12674-11-2	6.7	U	6.7	35		20
10225	PCB-1221	11104-28-2	6.7	U	6.7	35		20
10225	PCB-1232	11141-16-5	6.7	U	6.7	35		20
10225	PCB-1242	53469-21-9	6.7	U	6.7	35		20
10225	PCB-1248	12672-29-6	120		6.7	35		20
10225	PCB-1254	11097-69-1	6.7	U	6.7	35		20
10225	PCB-1260	11096-82-5	7.9	U	7.9	35		20
10225	PCB-1262	37324-23-5	6.7	U	6.7	35		20
10225	PCB-1268	11100-14-4	6.7	U	6.7	35		20
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-315-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-315-SA6-SS-0.0-0.5

LLI Sample # SW 6353033
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 13:37

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0605 SDG#: DE206-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C15-C20)	n.a.	3.4	J	2.0	6.1		5
10199	EFH (C21-C30)	n.a.	33		2.0	6.1		5
10199	EFH (C30 - C40)	n.a.	130		2.0	6.1		5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.1		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,000		5.92	19.6		1
07914	Boron	7440-42-8	2.81	J	0.352	4.90		1
01650	Calcium	7440-70-2	2,900		2.45	19.6		1
01654	Iron	7439-89-6	19,300		2.56	19.6		1
01656	Lithium	7439-93-2	25.8		0.61	2.0		1
01657	Magnesium	7439-95-4	4,300		0.431	9.79		1
06958	Manganese	7439-96-5	287		0.0352	0.490		1
10145	Phosphorus	7723-14-0	515		0.343	9.79		1
01662	Potassium	7440-09-7	3,720		11.1	49.0		1
01667	Sodium	7440-23-5	80.7	J	5.83	97.9		1
07968	Strontium	7440-24-6	27.4		0.0245	0.490		1
06969	Tin	7440-31-5	3.09	J	0.313	9.79		1
06970	Titanium	7440-32-6	1,000		0.0695	0.979		1
10146	Zirconium	7440-67-7	2.57	J	0.450	4.90		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.115	J	0.0746	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.76		0.0807	0.403		2
06126	Barium	7440-39-3	96.1		0.107	0.403		2
06127	Beryllium	7440-41-7	0.484		0.0161	0.101		2
06128	Cadmium	7440-43-9	1.04		0.0444	0.101		2
06131	Chromium	7440-47-3	33.3		0.121	0.403		2
06132	Cobalt	7440-48-4	5.17		0.0202	0.101		2
06133	Copper	7440-50-8	47.4		0.0807	0.403		2
06135	Lead	7439-92-1	45.3		0.0103	0.202		2
06138	Molybdenum	7439-98-7	0.577		0.0504	0.101		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-315-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-315-SA6-SS-0.0-0.5

LLI Sample # SW 6353033
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 13:37

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0605 SDG#: DE206-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	14.6		0.101	0.403		2
06141	Selenium	7782-49-2	0.109	J	0.0585	0.403		2
06142	Silver	7440-22-4	0.727		0.0143	0.101		2
06145	Thallium	7440-28-0	0.224		0.0302	0.101		2
06148	Vanadium	7440-62-2	30.6		0.0222	0.101		2
06149	Zinc	7440-66-6	130		0.565	3.02		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.115		0.0069	0.0988		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.81	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.81	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.51	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.87		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.8		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11213SLA026	08/10/2011 22:06	Matthew S Woods	10

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-315-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-315-SA6-SS-0.0-0.5

LLI Sample # SW 6353033
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 13:37

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0605 SDG#: DE206-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLL026	08/15/2011 10:18	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11213SLC026	08/04/2011 23:37	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11213SLA026	08/02/2011 08:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11213SLC026	08/02/2011 08:25	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLL026	08/03/2011 06:00	Joseph S Feister	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112140015A	08/05/2011 08:08	Michele D Hamilton	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112070008A	07/28/2011 03:34	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112150006A	08/05/2011 04:42	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140012A	08/25/2011 05:48	Melissa McDermott	200
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140012A	08/25/2011 06:18	Melissa McDermott	20
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140012A	08/26/2011 16:02	Melissa McDermott	500
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112140010A	08/05/2011 14:30	Sarah M Snyder	20
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112140012A	08/02/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112140010A	08/02/2011 16:20	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112150006A	08/03/2011 20:00	Elaine F Stoltzfus	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112070008A	07/26/2011 13:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112140015A	08/03/2011 00:45	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112080024A	07/28/2011 20:09	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112040001A	07/23/2011 10:18	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112140032A	08/05/2011 12:32	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112140001A	08/03/2011 21:55	Tracy A Cole	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112140001A	08/02/2011 09:30	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112140032A	08/03/2011 06:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112080024A	07/28/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112040001A	07/23/2011 06:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112095708003	08/02/2011 11:36	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112095708003	08/02/2011 11:36	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112095708003	08/02/2011 11:36	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112095708003	08/02/2011 11:36	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112095708003	08/02/2011 11:36	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112095708003	08/02/2011 11:36	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112095708003	08/02/2011 11:36	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112095708003	08/02/2011 11:36	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112095708003	08/02/2011 11:36	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112095708003	08/02/2011 11:36	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112095708003	08/02/2011 11:36	Joanne M Gates	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-315-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-315-SA6-SS-0.0-0.5

LLI Sample # SW 6353033
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 13:37

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0605 SDG#: DE206-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112095708003	08/03/2011 11:09	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112095708003	08/02/2011 11:36	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112095708003	08/02/2011 11:36	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112091026003A	08/01/2011 08:33	David K Beck	2
06125	Arsenic	SW-846 6020	1	112091026003A	08/01/2011 08:33	David K Beck	2
06126	Barium	SW-846 6020	1	112091026003D	08/01/2011 08:33	David K Beck	2
06127	Beryllium	SW-846 6020	1	112091026003A	08/01/2011 08:33	David K Beck	2
06128	Cadmium	SW-846 6020	1	112091026003A	08/01/2011 08:33	David K Beck	2
06131	Chromium	SW-846 6020	1	112091026003A	08/01/2011 08:33	David K Beck	2
06132	Cobalt	SW-846 6020	1	112091026003A	08/01/2011 08:33	David K Beck	2
06133	Copper	SW-846 6020	1	112091026003A	08/01/2011 08:33	David K Beck	2
06135	Lead	SW-846 6020	1	112091026003A	08/01/2011 08:33	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112091026003C	08/01/2011 08:33	David K Beck	2
06139	Nickel	SW-846 6020	1	112091026003A	08/01/2011 08:33	David K Beck	2
06141	Selenium	SW-846 6020	1	112091026003B	08/01/2011 08:33	David K Beck	2
06142	Silver	SW-846 6020	1	112091026003A	08/01/2011 08:33	David K Beck	2
06145	Thallium	SW-846 6020	1	112091026003A	08/01/2011 08:33	David K Beck	2
06148	Vanadium	SW-846 6020	1	112091026003A	08/01/2011 08:33	David K Beck	2
06149	Zinc	SW-846 6020	1	112091026003A	08/01/2011 08:33	David K Beck	2
00159	Mercury	SW-846 7471A	1	112095711004	07/29/2011 12:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112095708003	07/28/2011 08:34	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112091026003	07/29/2011 08:52	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112095711004	07/28/2011 10:31	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11214284202A	08/03/2011 13:53	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11214284202A	08/03/2011 13:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11210373203A	08/02/2011 20:13	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11221243201B	08/10/2011 19:34	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11215102201A	08/03/2011 18:34	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11214284202A	08/02/2011 17:55	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11210373203A	07/29/2011 16:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11215102201A	08/03/2011 09:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039401A	08/02/2011 09:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243201B	08/03/2011 09:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-316-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-316-SA6-SS-0.0-0.5

LLI Sample # SW 6353034
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:20

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0606 SDG#: DE206-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(b)fluoranthene	205-99-2	20	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Chrysene	218-01-9	21	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	56	J	17	340		1
04688	Fluoranthene	206-44-0	27	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-316-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-316-SA6-SS-0.0-0.5

LLI Sample # SW 6353034
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:20

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0606 SDG#: DE206-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	27	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	1.0	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	5.0		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	5.3		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	2.0		0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	4.7		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	27		6.0	18		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.6	J	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	4.6		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	3.5	U	3.5	3.5		1
10401	Dicamba	1918-00-9	0.52	U	0.52	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1

Reporting limits were raised for dicamba and 2,4-DB due to interference from the sample matrix.

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Sample Description: SL-316-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-316-SA6-SS-0.0-0.5

LLI Sample # SW 6353034
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:20

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0606 SDG#: DE206-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.0		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	11		0.81	3.4		1
01363	p,p-DDD	72-54-8	4.0	J	1.3	6.9		20
01363	p,p-DDE	72-55-9	250		13	69		200
01363	p,p-DDT	50-29-3	410		13	69		200
01363	Delta BHC	319-86-8	0.48	U	0.48	0.48		1
01363	Dieldrin	60-57-1	19	J	13	69		200
01363	Endosulfan I	959-98-8	0.089	U	0.089	0.17		1
01363	Endosulfan II	33213-65-9	1.7		0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	1.3	U	1.3	6.9		20
01363	Endrin Aldehyde	7421-93-4	0.83		0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.96		0.067	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	6.9	U	6.9	33		200
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.48	U	0.48	0.48		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	10	U	10	33		10
10225	Aroclor 5442	12642-23-8	10	U	10	33		10
10225	Aroclor 5460	11126-42-4	74		10	33		10
10225	PCB-1016	12674-11-2	3.3	U	3.3	17		10
10225	PCB-1221	11104-28-2	3.3	U	3.3	17		10
10225	PCB-1232	11141-16-5	3.3	U	3.3	17		10
10225	PCB-1242	53469-21-9	3.3	U	3.3	17		10
10225	PCB-1248	12672-29-6	50		3.3	17		10
10225	PCB-1254	11097-69-1	3.3	U	3.3	17		10
10225	PCB-1260	11096-82-5	3.9	U	3.9	17		10
10225	PCB-1262	37324-23-5	3.3	U	3.3	17		10
10225	PCB-1268	11100-14-4	3.3	U	3.3	17		10
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	13,800		5.98	19.8		1
07914	Boron	7440-42-8	1.97	J	0.356	4.94		1
01650	Calcium	7440-70-2	2,530		2.47	19.8		1
01654	Iron	7439-89-6	17,900		2.58	19.8		1
01656	Lithium	7439-93-2	24.1		0.61	2.0		1
01657	Magnesium	7439-95-4	4,090		0.435	9.88		1
06958	Manganese	7439-96-5	278		0.0356	0.494		1
10145	Phosphorus	7723-14-0	396		0.346	9.88		1

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Sample Description: SL-316-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-316-SA6-SS-0.0-0.5

LLI Sample # SW 6353034
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:20

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0606 SDG#: DE206-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	3,200		11.2	49.4		1
01667	Sodium	7440-23-5	76.7	J	5.88	98.8		1
07968	Strontium	7440-24-6	22.1		0.0247	0.494		1
06969	Tin	7440-31-5	3.02	J	0.316	9.88		1
06970	Titanium	7440-32-6	987		0.0702	0.988		1
10146	Zirconium	7440-67-7	2.27	J	0.455	4.94		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.124	J	0.0724	0.196		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.74		0.0783	0.391		2
06126	Barium	7440-39-3	85.9		0.104	0.391		2
06127	Beryllium	7440-41-7	0.478		0.0157	0.0979		2
06128	Cadmium	7440-43-9	0.752		0.0431	0.0979		2
06131	Chromium	7440-47-3	23.4		0.117	0.391		2
06132	Cobalt	7440-48-4	5.20		0.0196	0.0979		2
06133	Copper	7440-50-8	19.5		0.0783	0.391		2
06135	Lead	7439-92-1	51.4		0.010	0.196		2
06138	Molybdenum	7439-98-7	0.550		0.0489	0.0979		2
06139	Nickel	7440-02-0	14.0		0.0979	0.391		2
06141	Selenium	7782-49-2	0.107	J	0.0568	0.391		2
06142	Silver	7440-22-4	0.753		0.0139	0.0979		2
06145	Thallium	7440-28-0	0.212		0.0294	0.0979		2
06148	Vanadium	7440-62-2	31.5		0.0215	0.0979		2
06149	Zinc	7440-66-6	101		0.548	2.94		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0578	J	0.0069	0.0976		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.80	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.4		0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.21		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.80		0.50	0.50		1

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Sample Description: SL-316-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-316-SA6-SS-0.0-0.5

LLI Sample # SW 6353034
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:20

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0606 SDG#: DE206-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLL026	08/15/2011 10:43	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11213SLC026	08/05/2011 00:09	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11213SLC026	08/02/2011 08:25	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLL026	08/03/2011 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112150006A	08/05/2011 05:10	Anita M Dale	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112140035A	08/04/2011 16:11	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140012A	08/25/2011 04:33	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140012A	08/25/2011 04:48	Melissa McDermott	20
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140012A	08/26/2011 16:17	Melissa McDermott	200
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112140010A	08/05/2011 14:48	Sarah M Snyder	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112140012A	08/02/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112140010A	08/02/2011 16:20	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112150006A	08/03/2011 20:00	Elaine F Stoltzfus	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112140035A	08/03/2011 09:30	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112095708003	08/02/2011 11:41	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112095708003	08/02/2011 11:41	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112095708003	08/02/2011 11:41	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112095708003	08/02/2011 11:41	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112095708003	08/02/2011 11:41	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112095708003	08/02/2011 11:41	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112095708003	08/02/2011 11:41	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112095708003	08/02/2011 11:41	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112095708003	08/02/2011 11:41	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112095708003	08/02/2011 11:41	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112095708003	08/02/2011 11:41	Joanne M Gates	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-316-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-316-SA6-SS-0.0-0.5

LLI Sample # SW 6353034
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:20

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0606 SDG#: DE206-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112095708003	08/03/2011 11:13	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112095708003	08/02/2011 11:41	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112095708003	08/02/2011 11:41	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112091026003A	08/01/2011 08:36	David K Beck	2
06125	Arsenic	SW-846 6020	1	112091026003A	08/01/2011 08:36	David K Beck	2
06126	Barium	SW-846 6020	1	112091026003D	08/01/2011 08:36	David K Beck	2
06127	Beryllium	SW-846 6020	1	112091026003A	08/01/2011 08:36	David K Beck	2
06128	Cadmium	SW-846 6020	1	112091026003A	08/01/2011 08:36	David K Beck	2
06131	Chromium	SW-846 6020	1	112091026003A	08/01/2011 08:36	David K Beck	2
06132	Cobalt	SW-846 6020	1	112091026003A	08/01/2011 08:36	David K Beck	2
06133	Copper	SW-846 6020	1	112091026003A	08/01/2011 08:36	David K Beck	2
06135	Lead	SW-846 6020	1	112091026003A	08/01/2011 08:36	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112091026003C	08/01/2011 08:36	David K Beck	2
06139	Nickel	SW-846 6020	1	112091026003A	08/01/2011 08:36	David K Beck	2
06141	Selenium	SW-846 6020	1	112091026003B	08/01/2011 08:36	David K Beck	2
06142	Silver	SW-846 6020	1	112091026003A	08/01/2011 08:36	David K Beck	2
06145	Thallium	SW-846 6020	1	112091026003A	08/01/2011 08:36	David K Beck	2
06148	Vanadium	SW-846 6020	1	112091026003A	08/01/2011 08:36	David K Beck	2
06149	Zinc	SW-846 6020	1	112091026003A	08/01/2011 08:36	David K Beck	2
00159	Mercury	SW-846 7471A	1	112095711004	07/29/2011 12:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112095708003	07/28/2011 08:34	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112091026003	07/29/2011 08:52	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112095711004	07/28/2011 10:31	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11214284202A	08/03/2011 14:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11210373203A	08/02/2011 20:36	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11221243201B	08/10/2011 19:56	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11214284202A	08/02/2011 17:55	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11210373203A	07/29/2011 16:00	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039401A	08/02/2011 09:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243201B	08/03/2011 09:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401A	07/28/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-318-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-318-SA6-SS-0.0-0.5

LLI Sample # SW 6353035
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:41

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0607 SDG#: DE206-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(g,h,i)perylene	191-24-2	20	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	44	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

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Sample Description: SL-318-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-318-SA6-SS-0.0-0.5

LLI Sample # SW 6353035
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:41

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0607 SDG#: DE206-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	38		0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.97	J	0.34	1.7		1
10138	Anthracene	120-12-7	23		0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	95		0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	70		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	110		0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	52		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	8.8	J	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	8.0	J	6.1	18		1
10138	Chrysene	218-01-9	130		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	5.0		0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	290		0.68	1.7		1
10138	Fluorene	86-73-7	20		0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	15		0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	3.1		0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	2.8		0.68	1.7		1
10138	Naphthalene	91-20-3	3.1		0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	240		0.68	1.7		1
10138	Pyrene	129-00-0	290		0.68	1.7		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	4.8	U	4.8	4.8		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	16	U	16	16		1
10401	Dicamba	1918-00-9	0.69	U	0.69	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	7.2		0.82	1.7		1
10401	MCPA	94-74-6	78	U	78	260		1
10401	MCPP (Mecoprop)	93-65-2	600	U	600	600		1
10401	2,4,5-T	93-76-5	1.7	U	1.7	1.7		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1

Reporting limits were raised for dicamba, MCPP, 2,4-D, 2,4,5-T, and 2,4-DB due to interference from the sample matrix.
The surrogate data is outside the QC limits due to unresolvable

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-318-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-318-SA6-SS-0.0-0.5

LLI Sample # SW 6353035
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:41

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0607 SDG#: DE206-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
matrix problems evident in the sample chromatogram.								
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	10		0.82	3.5		1
01363	p,p-DDD	72-54-8	5.0	J	1.3	6.9		20
01363	p,p-DDE	72-55-9	19		1.3	6.9		20
01363	p,p-DDT	50-29-3	83		3.4	17		50
01363	Delta BHC	319-86-8	0.80		0.037	0.17		1
01363	Dieldrin	60-57-1	2.2	U	2.2	6.9		20
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.48	U	0.48	0.48		1
01363	Endosulfan Sulfate	1031-07-8	0.45	U	0.45	0.45		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.63	U	0.63	0.63		1
01363	Endrin Ketone	53494-70-5	0.33	J	0.067	0.35		1
01363	Heptachlor	76-44-8	0.46		0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.59	U	0.59	0.59		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.33	U	0.33	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17		5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17		5
10225	Aroclor 5460	11126-42-4	54		5.1	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.7		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.7		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.7		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.7		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.7		5
10225	PCB-1254	11097-69-1	39		1.7	8.7		5
10225	PCB-1260	11096-82-5	2.0	U	2.0	8.7		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.7		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.7		5
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,600		6.00	19.8		1
07914	Boron	7440-42-8	2.59	J	0.357	4.96		1
01650	Calcium	7440-70-2	3,140		2.48	19.8		1
01654	Iron	7439-89-6	19,300		2.59	19.8		1
01656	Lithium	7439-93-2	27.6		0.61	2.0		1
01657	Magnesium	7439-95-4	4,600		0.436	9.92		1
06958	Manganese	7439-96-5	288		0.0357	0.496		1
10145	Phosphorus	7723-14-0	504		0.347	9.92		1
01662	Potassium	7440-09-7	3,880		11.2	49.6		1
01667	Sodium	7440-23-5	80.2	J	5.90	99.2		1

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Sample Description: SL-318-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-318-SA6-SS-0.0-0.5

LLI Sample # SW 6353035
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:41

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0607 SDG#: DE206-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07968	Strontium	7440-24-6	24.3		0.0248	0.496		1
06969	Tin	7440-31-5	2.91	J	0.317	9.92		1
06970	Titanium	7440-32-6	1,050		0.0704	0.992		1
10146	Zirconium	7440-67-7	2.68	J	0.456	4.96		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.145	J	0.0741	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.81		0.0801	0.401		2
06126	Barium	7440-39-3	116		0.106	0.401		2
06127	Beryllium	7440-41-7	0.613		0.0160	0.100		2
06128	Cadmium	7440-43-9	0.722		0.0441	0.100		2
06131	Chromium	7440-47-3	25.7		0.120	0.401		2
06132	Cobalt	7440-48-4	6.85		0.0200	0.100		2
06133	Copper	7440-50-8	17.7		0.0801	0.401		2
06135	Lead	7439-92-1	35.3		0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.834		0.0501	0.100		2
06139	Nickel	7440-02-0	18.3		0.100	0.401		2
06141	Selenium	7782-49-2	0.167	J	0.0581	0.401		2
06142	Silver	7440-22-4	0.758		0.0142	0.100		2
06145	Thallium	7440-28-0	0.291		0.0300	0.100		2
06148	Vanadium	7440-62-2	38.2		0.0220	0.100		2
06149	Zinc	7440-66-6	108		0.561	3.00		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0501	J	0.0070	0.0988		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.77		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-318-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-318-SA6-SS-0.0-0.5

LLI Sample # SW 6353035
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:41

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0607 SDG#: DE206-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLL026	08/15/2011 11:08	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11213SLC026	08/05/2011 00:41	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11213SLC026	08/02/2011 08:25	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLL026	08/03/2011 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112150006A	08/05/2011 05:37	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140012A	08/25/2011 05:03	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140012A	08/25/2011 05:18	Melissa McDermott	20
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140012A	08/26/2011 16:31	Melissa McDermott	50
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112140010A	08/04/2011 10:08	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112140012A	08/02/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112140010A	08/02/2011 16:20	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112150006A	08/03/2011 20:00	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112095708003	08/02/2011 11:45	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112095708003	08/02/2011 11:45	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112095708003	08/02/2011 11:45	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112095708003	08/02/2011 11:45	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112095708003	08/02/2011 11:45	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112095708003	08/02/2011 11:45	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112095708003	08/02/2011 11:45	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112095708003	08/02/2011 11:45	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112095708003	08/02/2011 11:45	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112095708003	08/02/2011 11:45	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112095708003	08/02/2011 11:45	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112095708003	08/03/2011 11:17	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112095708003	08/02/2011 11:45	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112095708003	08/02/2011 11:45	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112091026003A	08/01/2011 08:39	David K Beck	2
06125	Arsenic	SW-846 6020	1	112091026003A	08/01/2011 08:39	David K Beck	2
06126	Barium	SW-846 6020	1	112091026003D	08/01/2011 08:39	David K Beck	2
06127	Beryllium	SW-846 6020	1	112091026003A	08/01/2011 08:39	David K Beck	2
06128	Cadmium	SW-846 6020	1	112091026003A	08/01/2011 08:39	David K Beck	2
06131	Chromium	SW-846 6020	1	112091026003A	08/01/2011 08:39	David K Beck	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-318-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-318-SA6-SS-0.0-0.5

LLI Sample # SW 6353035
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:41

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0607 SDG#: DE206-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	112091026003A	08/01/2011 08:39	David K Beck	2
06133	Copper	SW-846 6020	1	112091026003A	08/01/2011 08:39	David K Beck	2
06135	Lead	SW-846 6020	1	112091026003A	08/01/2011 08:39	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112091026003C	08/01/2011 08:39	David K Beck	2
06139	Nickel	SW-846 6020	1	112091026003A	08/01/2011 08:39	David K Beck	2
06141	Selenium	SW-846 6020	1	112091026003B	08/01/2011 08:39	David K Beck	2
06142	Silver	SW-846 6020	1	112091026003A	08/01/2011 08:39	David K Beck	2
06145	Thallium	SW-846 6020	1	112091026003A	08/01/2011 08:39	David K Beck	2
06148	Vanadium	SW-846 6020	1	112091026003A	08/01/2011 08:39	David K Beck	2
06149	Zinc	SW-846 6020	1	112091026003A	08/01/2011 08:39	David K Beck	2
00159	Mercury	SW-846 7471A	1	112095711004	07/29/2011 12:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112095708003	07/28/2011 08:34	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112091026003	07/29/2011 08:52	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112095711004	07/28/2011 10:31	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11214284202A	08/03/2011 14:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11210373203A	08/02/2011 20:59	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11221243201B	08/10/2011 20:18	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11214284202A	08/02/2011 17:55	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11210373203A	07/29/2011 16:00	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039401A	08/02/2011 09:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243201B	08/03/2011 09:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401A	07/28/2011 20:37	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP06-SA6-QC-072111 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA6-QC-072111

LLI Sample # SW 6353036
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:49

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0608 SDG#: DE206-08FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	16.9	U	16.9	33.7		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Chrysene	218-01-9	33	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	40	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1

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Sample Description: DUP06-SA6-QC-072111 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA6-QC-072111

LLI Sample # SW 6353036
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:49

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0608 SDG#: DE206-08FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.86	J	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.71	J	0.34	1.7		1
10138	Anthracene	120-12-7	2.6		0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	13		0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	12		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	29		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	3.9		0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	12		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Dibenz(a,h)anthracene	53-70-3	1.2	J	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	47		0.68	1.7		1
10138	Fluorene	86-73-7	1.0	J	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.0		0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.75	J	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.89	J	0.68	1.7		1
10138	Naphthalene	91-20-3	1.0	J	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	26		0.68	1.7		1
10138	Pyrene	129-00-0	43		0.68	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	57	U	57	110	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	38	U	38	110	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	75	U	75	230	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	75	U	75	230	10000000	1

*=This limit was used in the evaluation of the final result
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Sample Description: DUP06-SA6-QC-072111 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA6-QC-072111

LLI Sample # SW 6353036
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:49

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0608 SDG#: DE206-08FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	38	U	38	110	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	38	U	38	110	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	38	U	38	110	10000000	1
10132	HMX	2691-41-0	94	U	94	280	10000000	1
10132	Nitrobenzene	98-95-3	38	U	38	110	10000000	1
10132	Nitroglycerin	55-63-0	750	U	750	2,300	10000000	1
10132	2-Nitrotoluene	88-72-2	75	U	75	110	10000000	1
10132	3-Nitrotoluene	99-08-1	94	U	94	110	10000000	1
10132	4-Nitrotoluene	99-99-0	75	U	75	110	10000000	1
10132	PETN	78-11-5	750	U	750	2,300	10000000	1
10132	RDX	121-82-4	47	U	47	110	10000000	1
10132	Tetryl	479-45-8	58	U	58	110	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	38	U	38	110	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	38	U	38	110	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	5.9	U	5.9	5.9		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	Reporting limits were raised for 2,4-DB due to interference from the sample matrix.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP06-SA6-QC-072111 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA6-QC-072111

LLI Sample # SW 6353036
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:49

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0608 SDG#: DE206-08FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	4.1		0.81	3.5		1
01363	p,p-DDD	72-54-8	0.32	U	0.32	0.35		1
01363	p,p-DDE	72-55-9	10		0.67	3.5		10
01363	p,p-DDT	50-29-3	14		0.67	3.5		10
01363	Delta BHC	319-86-8	0.15	J	0.037	0.17		1
01363	Dieldrin	60-57-1	0.58	U	0.58	0.58		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.16	U	0.16	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.23	U	0.23	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.22	U	0.22	0.35		1
01363	Endrin Ketone	53494-70-5	0.35	U	0.35	0.35		1
01363	Heptachlor	76-44-8	0.081	J	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.14	U	0.14	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.46	U	0.46	0.46		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	11		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	12		0.34	1.7		1
10225	PCB-1260	11096-82-5	6.9		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP06-SA6-QC-072111 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA6-QC-072111

LLI Sample # SW 6353036
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:49

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0608 SDG#: DE206-08FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	3.4		0.41	1.2		1
10199	EFH (C21-C30)	n.a.	11		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	30		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.56	J	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,800		5.98	19.8		1
07914	Boron	7440-42-8	3.25	J	0.356	4.94		1
01650	Calcium	7440-70-2	2,800		2.47	19.8		1
01654	Iron	7439-89-6	17,200		2.58	19.8		1
01656	Lithium	7439-93-2	20.4		0.61	2.0		1
01657	Magnesium	7439-95-4	3,830		0.435	9.89		1
06958	Manganese	7439-96-5	307		0.0356	0.494		1
10145	Phosphorus	7723-14-0	410		0.346	9.89		1
01662	Potassium	7440-09-7	3,450		11.2	49.4		1
01667	Sodium	7440-23-5	69.3	J	5.88	98.9		1
07968	Strontium	7440-24-6	23.1		0.0247	0.494		1
06969	Tin	7440-31-5	2.80	J	0.316	9.89		1
06970	Titanium	7440-32-6	935		0.0702	0.989		1
10146	Zirconium	7440-67-7	2.49	J	0.455	4.94		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.188	J	0.0746	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.33		0.0807	0.403		2
06126	Barium	7440-39-3	99.6		0.107	0.403		2
06127	Beryllium	7440-41-7	0.498		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.485		0.0444	0.101		2
06131	Chromium	7440-47-3	18.1		0.121	0.403		2
06132	Cobalt	7440-48-4	5.47		0.0202	0.101		2
06133	Copper	7440-50-8	11.5		0.0807	0.403		2
06135	Lead	7439-92-1	19.7		0.0103	0.202		2
06138	Molybdenum	7439-98-7	0.547		0.0504	0.101		2
06139	Nickel	7440-02-0	14.2		0.101	0.403		2
06141	Selenium	7782-49-2	0.117	J	0.0585	0.403		2
06142	Silver	7440-22-4	0.490		0.0143	0.101		2
06145	Thallium	7440-28-0	0.236		0.0302	0.101		2
06148	Vanadium	7440-62-2	28.7		0.0222	0.101		2

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Sample Description: DUP06-SA6-QC-072111 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA6-QC-072111

LLI Sample # SW 6353036
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:49

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0608 SDG#: DE206-08FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06149	Zinc	7440-66-6	76.5		0.565	3.02		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0337	J	0.0071	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.81	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1	J	0.81	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.67	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.00		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.8		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11213SLA026	08/10/2011	22:25	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLL026	08/15/2011	11:34	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11213SLC026	08/05/2011	01:12	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11213SLA026	08/02/2011	08:30	Olivia Arosemena	1

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Sample Description: DUP06-SA6-QC-072111 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA6-QC-072111

LLI Sample # SW 6353036
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:49

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0608 SDG#: DE206-08FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11213SLC026	08/02/2011 08:25	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLL026	08/03/2011 06:00	Joseph S Feister	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112140015A	08/05/2011 08:50	Michele D Hamilton	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112070008A	07/28/2011 03:44	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112150006A	08/05/2011 06:05	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140012A	08/24/2011 23:45	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140012A	08/26/2011 16:46	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112140010A	08/04/2011 10:26	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112140012A	08/02/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112140010A	08/02/2011 16:20	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112150006A	08/03/2011 20:00	Elaine F Stoltzfus	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112070008A	07/26/2011 13:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112140015A	08/03/2011 00:45	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112080024A	07/28/2011 20:24	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112040001A	07/23/2011 10:30	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112140032A	08/04/2011 21:15	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112140001A	08/03/2011 19:54	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112140001A	08/02/2011 09:30	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112140032A	08/03/2011 06:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112080024A	07/28/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112040001A	07/23/2011 06:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112095708003	08/02/2011 11:49	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112095708003	08/02/2011 11:49	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112095708003	08/02/2011 11:49	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112095708003	08/02/2011 11:49	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112095708003	08/02/2011 11:49	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112095708003	08/02/2011 11:49	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112095708003	08/02/2011 11:49	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112095708003	08/02/2011 11:49	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112095708003	08/02/2011 11:49	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112095708003	08/02/2011 11:49	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112095708003	08/02/2011 11:49	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112095708003	08/03/2011 11:21	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112095708003	08/02/2011 11:49	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112095708003	08/02/2011 11:49	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112091026003A	08/01/2011 08:42	David K Beck	2
06125	Arsenic	SW-846 6020	1	112091026003A	08/01/2011 08:42	David K Beck	2
06126	Barium	SW-846 6020	1	112091026003D	08/01/2011 08:42	David K Beck	2

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Sample Description: DUP06-SA6-QC-072111 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA6-QC-072111

LLI Sample # SW 6353036
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:49

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0608 SDG#: DE206-08FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	112091026003A	08/01/2011 08:42	David K Beck	2
06128	Cadmium	SW-846 6020	1	112091026003A	08/01/2011 08:42	David K Beck	2
06131	Chromium	SW-846 6020	1	112091026003A	08/01/2011 08:42	David K Beck	2
06132	Cobalt	SW-846 6020	1	112091026003A	08/01/2011 08:42	David K Beck	2
06133	Copper	SW-846 6020	1	112091026003A	08/01/2011 08:42	David K Beck	2
06135	Lead	SW-846 6020	1	112091026003A	08/01/2011 08:42	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112091026003C	08/01/2011 08:42	David K Beck	2
06139	Nickel	SW-846 6020	1	112091026003A	08/01/2011 08:42	David K Beck	2
06141	Selenium	SW-846 6020	1	112091026003B	08/01/2011 08:42	David K Beck	2
06142	Silver	SW-846 6020	1	112091026003A	08/01/2011 08:42	David K Beck	2
06145	Thallium	SW-846 6020	1	112091026003A	08/01/2011 08:42	David K Beck	2
06148	Vanadium	SW-846 6020	1	112091026003A	08/01/2011 08:42	David K Beck	2
06149	Zinc	SW-846 6020	1	112091026003A	08/01/2011 08:42	David K Beck	2
00159	Mercury	SW-846 7471A	1	112095711004	07/29/2011 12:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112095708003	07/28/2011 08:34	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112091026003	07/29/2011 08:52	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112095711004	07/28/2011 10:31	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11214284202A	08/03/2011 15:04	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11214284202A	08/03/2011 15:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11210373203A	08/02/2011 21:22	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11221243201B	08/10/2011 20:25	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11215102201A	08/03/2011 18:35	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11214284202A	08/02/2011 17:55	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11210373203A	07/29/2011 16:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11215102201A	08/03/2011 09:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039401A	08/02/2011 09:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243201B	08/03/2011 09:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP05-SA6-QC-072111 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA6-QC-072111

LLI Sample # SW 6353037
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:40

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0609 SDG#: DE206-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(g,h,i)perylene	191-24-2	21	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP05-SA6-QC-072111 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA6-QC-072111

LLI Sample # SW 6353037
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:40

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0609 SDG#: DE206-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4		5
10138	Acenaphthylene	208-96-8	1.8	J	1.7	8.4		5
10138	Anthracene	120-12-7	5.7	J	1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	33		3.4	8.4		5
10138	Benzo(a)pyrene	50-32-8	34		3.4	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	80		3.4	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	42		3.4	8.4		5
10138	Di-n-butylphthalate	84-74-2	35	J	30	91		5
10138	Chrysene	218-01-9	85		1.7	8.4		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	J	3.4	8.4		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	56	J	30	91		5
10138	Fluoranthene	206-44-0	160		3.4	8.4		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	11		3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4		5
10138	Phenanthrene	85-01-8	55		3.4	8.4		5
10138	Pyrene	129-00-0	140		3.4	8.4		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	8.7	U	8.7	8.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	Reporting limits were raised for 2,4-DB due to interference from the sample							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP05-SA6-QC-072111 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA6-QC-072111

LLI Sample # SW 6353037
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:40

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0609 SDG#: DE206-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
matrix.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	6.7		0.81	3.4		1
01363	p,p-DDD	72-54-8	0.46	U	0.46	0.46		1
01363	p,p-DDE	72-55-9	1.6	U	1.6	1.6		1
01363	p,p-DDT	50-29-3	7.4		0.33	1.7		5
01363	Delta BHC	319-86-8	0.12	U	0.12	0.17		1
01363	Dieldrin	60-57-1	1.8	U	1.8	1.8		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.47	U	0.47	0.47		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.49	U	0.49	0.49		1
01363	Endrin Aldehyde	7421-93-4	0.89	U	0.89	0.89		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.32	U	0.32	0.32		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.41	U	0.41	0.41		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17		5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17		5
10225	Aroclor 5460	11126-42-4	51		5.1	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.6		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6		5
10225	PCB-1254	11097-69-1	23		1.7	8.6		5
10225	PCB-1260	11096-82-5	20		2.0	8.6		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,200		6.07	20.1		1
07914	Boron	7440-42-8	2.55	J	0.361	5.02		1
01650	Calcium	7440-70-2	2,950		2.51	20.1		1
01654	Iron	7439-89-6	21,200		2.62	20.1		1
01656	Lithium	7439-93-2	21.3		0.62	2.0		1
01657	Magnesium	7439-95-4	4,610		0.441	10.0		1
06958	Manganese	7439-96-5	324		0.0361	0.502		1
10145	Phosphorus	7723-14-0	475		0.351	10.0		1
01662	Potassium	7440-09-7	4,110		11.3	50.2		1
01667	Sodium	7440-23-5	85.1	J	5.97	100		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP05-SA6-QC-072111 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA6-QC-072111

LLI Sample # SW 6353037
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:40

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0609 SDG#: DE206-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07968	Strontium	7440-24-6	24.9		0.0251	0.502		1
06969	Tin	7440-31-5	2.90	J	0.321	10.0		1
06970	Titanium	7440-32-6	1,150		0.0712	1.00		1
10146	Zirconium	7440-67-7	2.77	J	0.461	5.02		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.116	J	0.0721	0.195		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.52		0.0779	0.390		2
06126	Barium	7440-39-3	119		0.103	0.390		2
06127	Beryllium	7440-41-7	0.587		0.0156	0.0974		2
06128	Cadmium	7440-43-9	0.728		0.0429	0.0974		2
06131	Chromium	7440-47-3	23.8		0.117	0.390		2
06132	Cobalt	7440-48-4	6.29		0.0195	0.0974		2
06133	Copper	7440-50-8	16.8		0.0779	0.390		2
06135	Lead	7439-92-1	36.7		0.0099	0.195		2
06138	Molybdenum	7439-98-7	0.627		0.0487	0.0974		2
06139	Nickel	7440-02-0	19.0		0.0974	0.390		2
06141	Selenium	7782-49-2	0.129	J	0.0565	0.390		2
06142	Silver	7440-22-4	1.23		0.0138	0.0974		2
06145	Thallium	7440-28-0	0.284		0.0292	0.0974		2
06148	Vanadium	7440-62-2	36.7		0.0214	0.0974		2
06149	Zinc	7440-66-6	110		0.546	2.92		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0466	J	0.0070	0.0995		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.46	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.61		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP05-SA6-QC-072111 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA6-QC-072111

LLI Sample # SW 6353037
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:40

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0609 SDG#: DE206-09FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLL026	08/15/2011 11:59	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11213SLC026	08/05/2011 01:44	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11213SLC026	08/02/2011 08:25	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLL026	08/03/2011 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112150006A	08/05/2011 06:33	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140012A	08/25/2011 02:00	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112140012A	08/25/2011 02:16	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112140010A	08/04/2011 10:45	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112140012A	08/02/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112140010A	08/02/2011 16:20	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112150006A	08/03/2011 20:00	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112095708003	08/03/2011 11:24	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112095708003	08/02/2011 11:54	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112095708003	08/02/2011 11:54	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112095708003	08/03/2011 11:24	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112095708003	08/02/2011 11:54	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112095708003	08/02/2011 11:54	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112095708003	08/03/2011 11:24	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112095708003	08/02/2011 11:54	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112095708003	08/02/2011 11:54	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112095708003	08/02/2011 11:54	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112095708003	08/03/2011 11:24	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112095708003	08/03/2011 11:24	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112095708003	08/03/2011 11:24	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112095708003	08/02/2011 11:54	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112091026003A	08/01/2011 08:45	David K Beck	2
06125	Arsenic	SW-846 6020	1	112091026003A	08/01/2011 08:45	David K Beck	2
06126	Barium	SW-846 6020	1	112091026003D	08/01/2011 08:45	David K Beck	2
06127	Beryllium	SW-846 6020	1	112091026003A	08/01/2011 08:45	David K Beck	2
06128	Cadmium	SW-846 6020	1	112091026003A	08/01/2011 08:45	David K Beck	2
06131	Chromium	SW-846 6020	1	112091026003A	08/01/2011 08:45	David K Beck	2
06132	Cobalt	SW-846 6020	1	112091026003A	08/01/2011 08:45	David K Beck	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP05-SA6-QC-072111 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA6-QC-072111

LLI Sample # SW 6353037
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:40

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0609 SDG#: DE206-09FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	112091026003A	08/01/2011 08:45	David K Beck	2
06135	Lead	SW-846 6020	1	112091026003A	08/01/2011 08:45	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112091026003C	08/01/2011 08:45	David K Beck	2
06139	Nickel	SW-846 6020	1	112091026003A	08/01/2011 08:45	David K Beck	2
06141	Selenium	SW-846 6020	1	112091026003B	08/01/2011 08:45	David K Beck	2
06142	Silver	SW-846 6020	1	112091026003A	08/01/2011 08:45	David K Beck	2
06145	Thallium	SW-846 6020	1	112091026003A	08/01/2011 08:45	David K Beck	2
06148	Vanadium	SW-846 6020	1	112091026003A	08/01/2011 08:45	David K Beck	2
06149	Zinc	SW-846 6020	1	112091026003A	08/01/2011 08:45	David K Beck	2
00159	Mercury	SW-846 7471A	1	112095711004	07/29/2011 12:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112095708003	07/28/2011 08:34	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112091026003	07/29/2011 08:52	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112095711004	07/28/2011 10:31	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11214284202A	08/03/2011 15:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11210373203A	08/02/2011 21:45	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11221243201B	08/10/2011 20:47	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11214284202A	08/02/2011 17:55	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11210373203A	07/29/2011 16:00	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039401A	08/02/2011 09:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243201B	08/03/2011 09:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401A	07/28/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-073-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA6-SB-4.0-5.0

LLI Sample # SW 6353038
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:00

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0610 SDG#: DE206-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	10		7.4	8.9		1.01
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1.01
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1.01
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.4		1.01
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1.01
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1.01
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		1.01
06192	2-Butanone	78-93-3	1.3	U	1.3	8.9		1.01
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1.01
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1.01
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		1.01
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.4		1.01
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1.01
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1.01
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1.01
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1.01
06192	Chloromethane	74-87-3	0.37	U	0.37	4.4		1.01
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.4		1.01
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.4		1.01
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		1.01
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		1.01
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1.01
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1.01
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4		1.01
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.4		1.01
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1.01
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		1.01
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1.01
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1.01
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		1.01
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1.01
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1.01
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1.01
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1.01
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1.01
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1.01
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1.01
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		1.01
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1.01
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1.01
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1.01
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		1.01
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.4		1.01
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		1.01
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		1.01
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1.01
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1.01
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9		1.01
06192	Methylene Chloride	75-09-2	13		0.27	4.4		1.01
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1.01

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Sample Description: SL-073-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA6-SB-4.0-5.0

LLI Sample # SW 6353038
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:00

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0610 SDG#: DE206-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1.01
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1.01
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		1.01
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1.01
06192	Toluene	108-88-3	0.18	J	0.09	4.4		1.01
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.4		1.01
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1.01
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1.01
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		1.01
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		1.01
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1.01
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.4		1.01
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1.01
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1.01
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1.01
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1.01
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1.01
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		24.08
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(g,h,i)perylene	191-24-2	78	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	22	J	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	23	J	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1

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Sample Description: SL-073-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA6-SB-4.0-5.0

LLI Sample # SW 6353038
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:00

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0610 SDG#: DE206-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	38	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	62		3.7	9.2		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.2		5
10138	Anthracene	120-12-7	210		1.8	9.2		5
10138	Benzo(a)anthracene	56-55-3	630		3.7	9.2		5
10138	Benzo(a)pyrene	50-32-8	410		3.7	9.2		5
10138	Benzo(b)fluoranthene	205-99-2	690		3.7	9.2		5
10138	Benzo(k)fluoranthene	207-08-9	320		3.7	9.2		5
10138	Chrysene	218-01-9	590		1.8	9.2		5
10138	Dibenz(a,h)anthracene	53-70-3	28		3.7	9.2		5
10138	Fluoranthene	206-44-0	1,300		3.7	9.2		5

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Sample Description: SL-073-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA6-SB-4.0-5.0

LLI Sample # SW 6353038
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:00

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0610 SDG#: DE206-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	44		3.7	9.2		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	84		3.7	9.2		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.2		5
10138	2-Methylnaphthalene	91-57-6	4.2	J	3.7	9.2		5
10138	Naphthalene	91-20-3	5.0	J	3.7	9.2		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.2		5
10138	Phenanthrene	85-01-8	650		3.7	9.2		5
10138	Pyrene	129-00-0	1,100		3.7	9.2		5
	Reporting limits were raised due to interference from the sample matrix.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	2.0	U	2.0	10		226.45
	Reporting limits were raised due to sample foaming.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.5	U	5.5	18		5
10225	Aroclor 5442	12642-23-8	5.5	U	5.5	18		5
10225	Aroclor 5460	11126-42-4	180		5.5	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.4		5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.4		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.4		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.4		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.4		5
10225	PCB-1254	11097-69-1	180		1.8	9.4		5
10225	PCB-1260	11096-82-5	2.1	U	2.1	9.4		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.4		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.4		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1

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Sample Description: SL-073-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA6-SB-4.0-5.0

LLI Sample # SW 6353038
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:00

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0610 SDG#: DE206-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	11	U	11	33		25
10199	EFH (C15-C20)	n.a.	11	U	11	33		25
10199	EFH (C21-C30)	n.a.	140		11	33		25
10199	EFH (C30 - C40)	n.a.	430		11	33		25
10199	EFH (C8-C11)	n.a.	11	U	11	33		25
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		6.59	21.8		1
07914	Boron	7440-42-8	0.682	J	0.392	5.45		1
01650	Calcium	7440-70-2	15,900		2.72	21.8		1
01654	Iron	7439-89-6	23,800		2.84	21.8		1
01656	Lithium	7439-93-2	21.5		0.68	2.2		1
01657	Magnesium	7439-95-4	4,890		0.479	10.9		1
06958	Manganese	7439-96-5	270		0.0392	0.545		1
10145	Phosphorus	7723-14-0	433		0.381	10.9		1
01662	Potassium	7440-09-7	2,670		12.3	54.5		1
01667	Sodium	7440-23-5	539		6.48	109		1
07968	Strontium	7440-24-6	43.3		0.0272	0.545		1
06969	Tin	7440-31-5	3.02	J	0.349	10.9		1
06970	Titanium	7440-32-6	1,060		0.0773	1.09		1
10146	Zirconium	7440-67-7	3.46	J	0.501	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0775	U	0.0775	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.28		0.0838	0.419		2
06126	Barium	7440-39-3	57.5		0.111	0.419		2
06127	Beryllium	7440-41-7	0.280		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.106		0.0461	0.105		2
06131	Chromium	7440-47-3	9.89		0.126	0.419		2
06132	Cobalt	7440-48-4	4.32		0.0210	0.105		2
06133	Copper	7440-50-8	12.7		0.0838	0.419		2
06135	Lead	7439-92-1	6.28		0.0107	0.210		2
06138	Molybdenum	7439-98-7	0.445		0.0524	0.105		2
06139	Nickel	7440-02-0	6.49		0.105	0.419		2
06141	Selenium	7782-49-2	0.0681	J	0.0608	0.419		2
06142	Silver	7440-22-4	0.0251	J	0.0149	0.105		2
06145	Thallium	7440-28-0	0.128		0.0314	0.105		2
06148	Vanadium	7440-62-2	22.8		0.0230	0.105		2
06149	Zinc	7440-66-6	42.8		0.587	3.14		2

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Sample Description: SL-073-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA6-SB-4.0-5.0

LLI Sample # SW 6353038
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:00

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0610 SDG#: DE206-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	7.20		0.150	2.14		20
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.88	U	0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	10.6		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	9.1		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-073-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B112071AA	07/26/2011 14:09	Kerri E Legerlotz	1.01
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112062AA	07/25/2011 17:25	Jason M Long	24.08
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201120324990	07/22/2011 14:38	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201120324990	07/22/2011 14:51	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201120324990	07/22/2011 14:51	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201120324990	07/22/2011 14:39	Larry E Bevins	n.a.
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLL026	08/15/2011 12:24	Florida A Cimino	1

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Sample Description: SL-073-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA6-SB-4.0-5.0

LLI Sample # SW 6353038
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:00

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0610 SDG#: DE206-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11213SLC026	08/05/2011 02:16	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11213SLC026	08/02/2011 08:25	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLL026	08/03/2011 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11206A34A	07/25/2011 15:38	Marie D John	226.45
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120324990	07/22/2011 14:38	Larry E Bevins	n.a.
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112140035A	08/04/2011 16:17	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112140010A	08/04/2011 11:03	Sarah M Snyder	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112140010A	08/02/2011 16:20	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112140035A	08/03/2011 09:30	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112080024A	07/28/2011 20:39	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112040001A	07/23/2011 11:22	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112140032A	08/05/2011 13:17	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112140001A	08/03/2011 22:19	Tracy A Cole	25
11238	EFH Extraction - Soils	SW-846 3550B	1	112140001A	08/02/2011 09:30	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112140032A	08/03/2011 06:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112080024A	07/28/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112040001A	07/23/2011 06:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112095708003	08/02/2011 11:58	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112095708003	08/02/2011 11:58	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112095708003	08/02/2011 11:58	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112095708003	08/02/2011 11:58	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112095708003	08/02/2011 11:58	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112095708003	08/02/2011 11:58	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112095708003	08/02/2011 11:58	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112095708003	08/02/2011 11:58	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112095708003	08/02/2011 11:58	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112095708003	08/02/2011 11:58	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112095708003	08/02/2011 11:58	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112095708003	08/03/2011 11:28	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112095708003	08/02/2011 11:58	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112095708003	08/02/2011 11:58	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112091026003A	08/01/2011 08:48	David K Beck	2
06125	Arsenic	SW-846 6020	1	112091026003A	08/01/2011 08:48	David K Beck	2
06126	Barium	SW-846 6020	1	112091026003D	08/01/2011 08:48	David K Beck	2
06127	Beryllium	SW-846 6020	1	112091026003A	08/01/2011 08:48	David K Beck	2
06128	Cadmium	SW-846 6020	1	112091026003A	08/01/2011 08:48	David K Beck	2
06131	Chromium	SW-846 6020	1	112091026003A	08/01/2011 08:48	David K Beck	2
06132	Cobalt	SW-846 6020	1	112091026003A	08/01/2011 08:48	David K Beck	2
06133	Copper	SW-846 6020	1	112091026003A	08/01/2011 08:48	David K Beck	2

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Sample Description: SL-073-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA6-SB-4.0-5.0

LLI Sample # SW 6353038
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:00

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0610 SDG#: DE206-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	112091026003A	08/01/2011 08:48	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112091026003C	08/01/2011 08:48	David K Beck	2
06139	Nickel	SW-846 6020	1	112091026003A	08/01/2011 08:48	David K Beck	2
06141	Selenium	SW-846 6020	1	112091026003B	08/01/2011 08:48	David K Beck	2
06142	Silver	SW-846 6020	1	112091026003A	08/01/2011 08:48	David K Beck	2
06145	Thallium	SW-846 6020	1	112091026003A	08/01/2011 08:48	David K Beck	2
06148	Vanadium	SW-846 6020	1	112091026003A	08/01/2011 08:48	David K Beck	2
06149	Zinc	SW-846 6020	1	112091026003A	08/01/2011 08:48	David K Beck	2
00159	Mercury	SW-846 7471A	1	112095711004	07/29/2011 12:53	Damary Valentin	20
05708	SW SW846 ICP Digest	SW-846 3050B	1	112095708003	07/28/2011 08:34	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112091026003	07/29/2011 08:52	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112095711004	07/28/2011 10:31	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11214284202A	08/03/2011 15:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11210373203A	08/02/2011 22:08	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11221243201B	08/10/2011 20:54	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11214284202A	08/02/2011 17:55	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11210373203A	07/29/2011 16:00	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039401B	08/02/2011 09:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243201B	08/03/2011 09:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401A	07/28/2011 20:37	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-081-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA6-SB-4.0-5.0

LLI Sample # SW 6353039
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:10

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0611 SDG#: DE206-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.0	J	7.0	8.4		0.97
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.97
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.97
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.97
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.97
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.97
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.97
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.97
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.97
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.97
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.97
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.97
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.97
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.97
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.97
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.97
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.97
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.97
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.97
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.97
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.97
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.97
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.97
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.97
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.97
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.97
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.97
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.97
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.97
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.97
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.97
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.97
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.97
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.97
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.97
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.97
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.97
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.97
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.97
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.97
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.97
06192	Methylene Chloride	75-09-2	12		0.25	4.2		0.97
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.97

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Sample Description: SL-081-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA6-SB-4.0-5.0

LLI Sample # SW 6353039
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:10

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0611 SDG#: DE206-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.97
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.97
06192	Toluene	108-88-3	0.12	J	0.08	4.2		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.97
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.97
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.97
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.97
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.97
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.97
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.97
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.97
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.97
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		24.27
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: SL-081-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA6-SB-4.0-5.0

LLI Sample # SW 6353039
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:10

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

E0611 SDG#: DE206-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1

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Sample Description: SL-081-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA6-SB-4.0-5.0

LLI Sample # SW 6353039
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:10

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0611 SDG#: DE206-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.32
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1

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SSFL Area IV Collocated Soil Sampling
SL-081-SA6-SB-4.0-5.0

LLI Sample # SW 6353039
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0611 SDG#: DE206-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	0.97	J	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,600		6.31	20.9		1
07914	Boron	7440-42-8	0.573	J	0.375	5.21		1
01650	Calcium	7440-70-2	3,790		2.61	20.9		1
01654	Iron	7439-89-6	22,900		2.72	20.9		1
01656	Lithium	7439-93-2	29.0		0.65	2.1		1
01657	Magnesium	7439-95-4	6,010		0.459	10.4		1
06958	Manganese	7439-96-5	306		0.0375	0.521		1
10145	Phosphorus	7723-14-0	406		0.365	10.4		1
01662	Potassium	7440-09-7	2,770		11.8	52.1		1
01667	Sodium	7440-23-5	126		6.21	104		1
07968	Strontium	7440-24-6	14.9		0.0261	0.521		1
06969	Tin	7440-31-5	3.18	J	0.334	10.4		1
06970	Titanium	7440-32-6	1,230		0.0740	1.04		1
10146	Zirconium	7440-67-7	2.45	J	0.480	5.21		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0803	U	0.0803	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.21		0.0868	0.434		2
06126	Barium	7440-39-3	79.8		0.115	0.434		2
06127	Beryllium	7440-41-7	0.477		0.0174	0.108		2
06128	Cadmium	7440-43-9	0.0584	J	0.0477	0.108		2
06131	Chromium	7440-47-3	20.1		0.130	0.434		2
06132	Cobalt	7440-48-4	5.61		0.0217	0.108		2
06133	Copper	7440-50-8	8.32		0.0868	0.434		2
06135	Lead	7439-92-1	4.11		0.0111	0.217		2
06138	Molybdenum	7439-98-7	0.411		0.0542	0.108		2
06139	Nickel	7440-02-0	12.4		0.108	0.434		2
06141	Selenium	7782-49-2	0.0769	J	0.0629	0.434		2
06142	Silver	7440-22-4	0.0334	J	0.0154	0.108		2
06145	Thallium	7440-28-0	0.257		0.0325	0.108		2
06148	Vanadium	7440-62-2	36.9		0.0239	0.108		2
06149	Zinc	7440-66-6	52.1		0.607	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075	U	0.0075	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-081-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA6-SB-4.0-5.0

LLI Sample # SW 6353039
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:10

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0611 SDG#: DE206-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.4		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.26		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.8		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-081-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B112071AA	07/26/2011 14:31	Kerri E Legerlotz	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112062AA	07/25/2011 17:45	Jason M Long	24.27
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201120324990	07/22/2011 14:35	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201120324990	07/22/2011 14:51	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201120324990	07/22/2011 14:51	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201120324990	07/22/2011 14:36	Larry E Bevins	n.a.
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLL026	08/15/2011 12:49	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11213SLC026	08/05/2011 02:48	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11213SLC026	08/02/2011 08:25	Katheryne V Sponheimer	1

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Sample Description: SL-081-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA6-SB-4.0-5.0

LLI Sample # SW 6353039
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:10

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E0611 SDG#: DE206-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLL026	08/03/2011 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11206A34A	07/25/2011 16:12	Marie D John	24.32
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120324990	07/22/2011 14:35	Larry E Bevins	n.a.
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112140035A	08/04/2011 16:23	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112140010A	08/04/2011 11:22	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112140010A	08/02/2011 16:20	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112140035A	08/03/2011 09:30	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112080024A	07/28/2011 20:54	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112040001A	07/23/2011 11:34	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112140032A	08/05/2011 11:03	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112140001A	08/03/2011 18:42	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112140001A	08/02/2011 09:30	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112140032A	08/03/2011 06:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112080024A	07/28/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112040001A	07/23/2011 06:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112095708003	08/02/2011 12:02	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112095708003	08/02/2011 12:02	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112095708003	08/02/2011 12:02	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112095708003	08/02/2011 12:02	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112095708003	08/02/2011 12:02	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112095708003	08/02/2011 12:02	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112095708003	08/02/2011 12:02	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112095708003	08/02/2011 12:02	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112095708003	08/02/2011 12:02	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112095708003	08/02/2011 12:02	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112095708003	08/02/2011 12:02	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112095708003	08/03/2011 11:32	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112095708003	08/02/2011 12:02	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112095708003	08/02/2011 12:02	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112091026003A	08/01/2011 08:51	David K Beck	2
06125	Arsenic	SW-846 6020	1	112091026003A	08/01/2011 08:51	David K Beck	2
06126	Barium	SW-846 6020	1	112091026003D	08/01/2011 08:51	David K Beck	2
06127	Beryllium	SW-846 6020	1	112091026003A	08/01/2011 08:51	David K Beck	2
06128	Cadmium	SW-846 6020	1	112091026003A	08/01/2011 08:51	David K Beck	2
06131	Chromium	SW-846 6020	1	112091026003A	08/01/2011 08:51	David K Beck	2
06132	Cobalt	SW-846 6020	1	112091026003A	08/01/2011 08:51	David K Beck	2
06133	Copper	SW-846 6020	1	112091026003A	08/01/2011 08:51	David K Beck	2
06135	Lead	SW-846 6020	1	112091026003A	08/01/2011 08:51	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112091026003C	08/01/2011 08:51	David K Beck	2
06139	Nickel	SW-846 6020	1	112091026003A	08/01/2011 08:51	David K Beck	2
06141	Selenium	SW-846 6020	1	112091026003B	08/01/2011 08:51	David K Beck	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-081-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA6-SB-4.0-5.0

LLI Sample # SW 6353039
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Project Name: SSFL Area IV Collocated Soil Sampling

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E0611 SDG#: DE206-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112091026003A	08/01/2011 08:51	David K Beck	2
06145	Thallium	SW-846 6020	1	112091026003A	08/01/2011 08:51	David K Beck	2
06148	Vanadium	SW-846 6020	1	112091026003A	08/01/2011 08:51	David K Beck	2
06149	Zinc	SW-846 6020	1	112091026003A	08/01/2011 08:51	David K Beck	2
00159	Mercury	SW-846 7471A	1	112095711004	07/29/2011 12:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112095708003	07/28/2011 08:34	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112091026003	07/29/2011 08:52	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112095711004	07/28/2011 10:31	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11214284202B	08/03/2011 16:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11210373203B	08/02/2011 22:31	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11221243201B	08/10/2011 21:08	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11214284202B	08/02/2011 17:55	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11210373203B	07/29/2011 16:00	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039401B	08/02/2011 09:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243201B	08/03/2011 09:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401A	07/28/2011 20:37	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-081-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA6-SB-9.0-10.0

LLI Sample # SW 6353040
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:20

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0612 SDG#: DE206-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-081-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA6-SB-9.0-10.0

LLI Sample # SW 6353040
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:20

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0612 SDG#: DE206-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	190	U	190	190		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.81
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1

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Sample Description: SL-081-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA6-SB-9.0-10.0

LLI Sample # SW 6353040
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:20

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0612 SDG#: DE206-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.66	J	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,800		6.55	21.6		1
07914	Boron	7440-42-8	0.561	J	0.390	5.41		1
01650	Calcium	7440-70-2	5,180		2.71	21.6		1
01654	Iron	7439-89-6	20,200		2.82	21.6		1
01656	Lithium	7439-93-2	26.9		0.67	2.2		1
01657	Magnesium	7439-95-4	5,810		0.476	10.8		1
06958	Manganese	7439-96-5	289		0.0390	0.541		1
10145	Phosphorus	7723-14-0	429		0.379	10.8		1
01662	Potassium	7440-09-7	2,710		12.2	54.1		1
01667	Sodium	7440-23-5	157		6.44	108		1
07968	Strontium	7440-24-6	15.6		0.0271	0.541		1
06969	Tin	7440-31-5	3.12	J	0.346	10.8		1
06970	Titanium	7440-32-6	1,130		0.0768	1.08		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-081-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA6-SB-9.0-10.0

LLI Sample # SW 6353040
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:20

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0612 SDG#: DE206-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	1.91	J	0.498	5.41		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0793	U	0.0793	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.73		0.0858	0.429		2
06126	Barium	7440-39-3	78.9		0.114	0.429		2
06127	Beryllium	7440-41-7	0.533		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.100	J	0.0472	0.107		2
06131	Chromium	7440-47-3	18.7		0.129	0.429		2
06132	Cobalt	7440-48-4	5.90		0.0214	0.107		2
06133	Copper	7440-50-8	8.62		0.0858	0.429		2
06135	Lead	7439-92-1	4.64		0.0109	0.214		2
06138	Molybdenum	7439-98-7	0.458		0.0536	0.107		2
06139	Nickel	7440-02-0	13.6		0.107	0.429		2
06141	Selenium	7782-49-2	0.119	J	0.0622	0.429		2
06142	Silver	7440-22-4	0.0435	J	0.0152	0.107		2
06145	Thallium	7440-28-0	0.270		0.0322	0.107		2
06148	Vanadium	7440-62-2	37.0		0.0236	0.107		2
06149	Zinc	7440-66-6	56.5		0.600	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078	U	0.0078	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.5		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.38		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-081-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA6-SB-9.0-10.0

LLI Sample # SW 6353040
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:20

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0612 SDG#: DE206-12

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-081-SA6-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLL026	08/15/2011 13:14	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11213SLC026	08/05/2011 03:19	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11213SLC026	08/02/2011 08:25	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLL026	08/03/2011 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11206A34A	07/25/2011 19:49	Marie D John	22.81
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120324990	07/22/2011 14:46	Larry E Bevins	n.a.
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112140035A	08/04/2011 16:29	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112140010A	08/04/2011 11:41	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112140010A	08/02/2011 16:20	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112140035A	08/03/2011 09:30	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112080024A	07/28/2011 21:09	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112040001A	07/23/2011 11:47	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112140032A	08/04/2011 12:23	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112140001A	08/03/2011 18:18	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112140001A	08/02/2011 09:30	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112140032A	08/03/2011 06:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112080024A	07/28/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112040001A	07/23/2011 06:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112095708003	08/02/2011 12:06	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112095708003	08/02/2011 12:06	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112095708003	08/02/2011 12:06	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112095708003	08/02/2011 12:06	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112095708003	08/02/2011 12:06	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112095708003	08/02/2011 12:06	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112095708003	08/02/2011 12:06	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112095708003	08/02/2011 12:06	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112095708003	08/02/2011 12:06	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112095708003	08/02/2011 12:06	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112095708003	08/02/2011 12:06	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112095708003	08/03/2011 11:36	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-081-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA6-SB-9.0-10.0

LLI Sample # SW 6353040
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:20

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0612 SDG#: DE206-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112095708003	08/02/2011 12:06	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112095708003	08/02/2011 12:06	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112091026003A	08/01/2011 08:54	David K Beck	2
06125	Arsenic	SW-846 6020	1	112091026003A	08/01/2011 08:54	David K Beck	2
06126	Barium	SW-846 6020	1	112091026003D	08/01/2011 08:54	David K Beck	2
06127	Beryllium	SW-846 6020	1	112091026003A	08/01/2011 08:54	David K Beck	2
06128	Cadmium	SW-846 6020	1	112091026003A	08/01/2011 08:54	David K Beck	2
06131	Chromium	SW-846 6020	1	112091026003A	08/01/2011 08:54	David K Beck	2
06132	Cobalt	SW-846 6020	1	112091026003A	08/01/2011 08:54	David K Beck	2
06133	Copper	SW-846 6020	1	112091026003A	08/01/2011 08:54	David K Beck	2
06135	Lead	SW-846 6020	1	112091026003A	08/01/2011 08:54	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112091026003C	08/01/2011 08:54	David K Beck	2
06139	Nickel	SW-846 6020	1	112091026003A	08/01/2011 08:54	David K Beck	2
06141	Selenium	SW-846 6020	1	112091026003B	08/01/2011 08:54	David K Beck	2
06142	Silver	SW-846 6020	1	112091026003A	08/01/2011 08:54	David K Beck	2
06145	Thallium	SW-846 6020	1	112091026003A	08/01/2011 08:54	David K Beck	2
06148	Vanadium	SW-846 6020	1	112091026003A	08/01/2011 08:54	David K Beck	2
06149	Zinc	SW-846 6020	1	112091026003A	08/01/2011 08:54	David K Beck	2
00159	Mercury	SW-846 7471A	1	112095711004	07/29/2011 12:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112095708003	07/28/2011 08:34	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112091026003	07/29/2011 08:52	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112095711004	07/28/2011 10:31	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11214284202B	08/03/2011 15:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11210373203B	08/03/2011 00:04	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11221243201B	08/10/2011 21:23	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11214284202B	08/02/2011 17:55	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11210373203B	07/29/2011 16:00	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039401B	08/02/2011 09:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243201B	08/03/2011 09:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401A	07/28/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-104-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA6-SB-2.5-3.5

LLI Sample # SW 6353041
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:40

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0613 SDG#: DE206-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.6		7.0	8.4		0.97
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.97
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.97
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.97
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.97
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.97
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.97
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.97
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.97
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.97
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.97
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.97
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.97
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.97
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.97
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.97
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.97
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.97
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.97
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.97
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.97
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.97
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.97
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.97
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.97
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.97
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.97
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.97
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.97
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.97
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.97
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.97
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.97
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.97
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.97
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.97
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.97
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.97
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.97
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.97
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.97
06192	Methylene Chloride	75-09-2	10		0.25	4.2		0.97
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.97

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-104-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA6-SB-2.5-3.5

LLI Sample # SW 6353041
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:40

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0613 SDG#: DE206-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.97
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.97
06192	Toluene	108-88-3	0.18	J	0.08	4.2		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.97
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.97
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.97
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.97
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.97
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.97
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.97
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.97
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.97
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		22.05
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-104-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA6-SB-2.5-3.5

LLI Sample # SW 6353041
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:40

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0613 SDG#: DE206-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.0		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.0		5
10138	Anthracene	120-12-7	4.6	J	1.8	9.0		5
10138	Benzo(a)anthracene	56-55-3	51		3.6	9.0		5
10138	Benzo(a)pyrene	50-32-8	46		3.6	9.0		5
10138	Benzo(b)fluoranthene	205-99-2	75		3.6	9.0		5
10138	Benzo(g,h,i)perylene	191-24-2	12		3.6	9.0		5
10138	Benzo(k)fluoranthene	207-08-9	29		3.6	9.0		5
10138	Chrysene	218-01-9	67		1.8	9.0		5
10138	Dibenz(a,h)anthracene	53-70-3	3.8	J	3.6	9.0		5
10138	Fluoranthene	206-44-0	85		3.6	9.0		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-104-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA6-SB-2.5-3.5

LLI Sample # SW 6353041
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:40

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0613 SDG#: DE206-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	3.6	U	3.6	9.0		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	11		3.6	9.0		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.0		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.0		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.0		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.0		5
10138	Phenanthrene	85-01-8	21		3.6	9.0		5
10138	Pyrene	129-00-0	98		3.6	9.0		5
Reporting limits were raised due to interference from the sample matrix.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		24.18
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	8.7		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	3.3		0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-104-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA6-SB-2.5-3.5

LLI Sample # SW 6353041
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:40

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0613 SDG#: DE206-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	11	U	11	32		25
10199	EFH (C15-C20)	n.a.	11	U	11	32		25
10199	EFH (C21-C30)	n.a.	78		11	32		25
10199	EFH (C30 - C40)	n.a.	370		11	32		25
10199	EFH (C8-C11)	n.a.	11	U	11	32		25
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,500		6.43	21.2		1
07914	Boron	7440-42-8	0.608	J	0.382	5.31		1
01650	Calcium	7440-70-2	3,910		2.66	21.2		1
01654	Iron	7439-89-6	20,000		2.77	21.2		1
01656	Lithium	7439-93-2	26.6		0.66	2.1		1
01657	Magnesium	7439-95-4	5,400		0.467	10.6		1
06958	Manganese	7439-96-5	264		0.0382	0.531		1
10145	Phosphorus	7723-14-0	384		0.372	10.6		1
01662	Potassium	7440-09-7	2,800		12.0	53.1		1
01667	Sodium	7440-23-5	189		6.32	106		1
07968	Strontium	7440-24-6	15.0		0.0266	0.531		1
06969	Tin	7440-31-5	2.76	J	0.340	10.6		1
06970	Titanium	7440-32-6	1,130		0.0754	1.06		1
10146	Zirconium	7440-67-7	2.20	J	0.489	5.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0771	U	0.0771	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.43		0.0833	0.417		2
06126	Barium	7440-39-3	77.2		0.110	0.417		2
06127	Beryllium	7440-41-7	0.519		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.107		0.0458	0.104		2
06131	Chromium	7440-47-3	18.1		0.125	0.417		2
06132	Cobalt	7440-48-4	5.57		0.0208	0.104		2
06133	Copper	7440-50-8	19.8		0.0833	0.417		2
06135	Lead	7439-92-1	7.47		0.0106	0.208		2
06138	Molybdenum	7439-98-7	0.694		0.0521	0.104		2
06139	Nickel	7440-02-0	12.1		0.104	0.417		2
06141	Selenium	7782-49-2	0.0983	J	0.0604	0.417		2
06142	Silver	7440-22-4	0.0314	J	0.0148	0.104		2
06145	Thallium	7440-28-0	0.257		0.0313	0.104		2
06148	Vanadium	7440-62-2	35.6		0.0229	0.104		2
06149	Zinc	7440-66-6	58.9		0.583	3.13		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0307	J	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-104-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA6-SB-2.5-3.5

LLI Sample # SW 6353041
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:40

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0613 SDG#: DE206-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.1		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.66		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.7		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-104-SA6-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B112071AA	07/26/2011	14:53	Kerri E Legerlotz	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112062AA	07/25/2011	18:05	Jason M Long	22.05
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201120324990	07/22/2011	14:42	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201120324990	07/22/2011	14:51	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201120324990	07/22/2011	14:51	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201120324990	07/22/2011	14:43	Larry E Bevins	n.a.
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLL026	08/15/2011	20:36	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11213SLC026	08/05/2011	03:51	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11213SLC026	08/02/2011	08:25	Katheryne V Sponheimer	1

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Sample Description: SL-104-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA6-SB-2.5-3.5

LLI Sample # SW 6353041
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:40

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0613 SDG#: DE206-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLL026	08/03/2011 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11206A34A	07/25/2011 16:47	Marie D John	24.18
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120324990	07/22/2011 14:42	Larry E Bevins	n.a.
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112140035A	08/04/2011 16:36	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112140010A	08/04/2011 11:59	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112140010A	08/02/2011 16:20	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112140035A	08/03/2011 09:30	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112080024A	07/28/2011 21:24	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112040001A	07/23/2011 12:00	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112140032A	08/05/2011 11:47	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112140001A	08/03/2011 22:43	Tracy A Cole	25
11238	EFH Extraction - Soils	SW-846 3550B	1	112140001A	08/02/2011 09:30	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112140032A	08/03/2011 06:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112080024A	07/28/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112040001A	07/23/2011 06:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112095708003	08/02/2011 12:18	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112095708003	08/02/2011 12:18	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112095708003	08/02/2011 12:18	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112095708003	08/02/2011 12:18	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112095708003	08/02/2011 12:18	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112095708003	08/02/2011 12:18	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112095708003	08/02/2011 12:18	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112095708003	08/02/2011 12:18	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112095708003	08/02/2011 12:18	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112095708003	08/02/2011 12:18	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112095708003	08/02/2011 12:18	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112095708003	08/03/2011 11:39	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112095708003	08/02/2011 12:18	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112095708003	08/02/2011 12:18	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112091026003A	08/01/2011 08:57	David K Beck	2
06125	Arsenic	SW-846 6020	1	112091026003A	08/01/2011 08:57	David K Beck	2
06126	Barium	SW-846 6020	1	112091026003D	08/01/2011 08:57	David K Beck	2
06127	Beryllium	SW-846 6020	1	112091026003A	08/01/2011 08:57	David K Beck	2
06128	Cadmium	SW-846 6020	1	112091026003A	08/01/2011 08:57	David K Beck	2
06131	Chromium	SW-846 6020	1	112091026003A	08/01/2011 08:57	David K Beck	2
06132	Cobalt	SW-846 6020	1	112091026003A	08/01/2011 08:57	David K Beck	2
06133	Copper	SW-846 6020	1	112091026003A	08/01/2011 08:57	David K Beck	2
06135	Lead	SW-846 6020	1	112091026003A	08/01/2011 08:57	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112091026003C	08/01/2011 08:57	David K Beck	2
06139	Nickel	SW-846 6020	1	112091026003A	08/01/2011 08:57	David K Beck	2
06141	Selenium	SW-846 6020	1	112091026003B	08/01/2011 08:57	David K Beck	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-104-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA6-SB-2.5-3.5

LLI Sample # SW 6353041
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:40

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0613 SDG#: DE206-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112091026003A	08/01/2011 08:57	David K Beck	2
06145	Thallium	SW-846 6020	1	112091026003A	08/01/2011 08:57	David K Beck	2
06148	Vanadium	SW-846 6020	1	112091026003A	08/01/2011 08:57	David K Beck	2
06149	Zinc	SW-846 6020	1	112091026003A	08/01/2011 08:57	David K Beck	2
00159	Mercury	SW-846 7471A	1	112095711004	07/29/2011 12:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112095708003	07/28/2011 08:34	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112091026003	07/29/2011 08:52	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112095711004	07/28/2011 10:31	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11214284202B	08/03/2011 16:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11210373203B	08/03/2011 00:27	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11221243201B	08/10/2011 21:37	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11214284202B	08/02/2011 17:55	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11210373203B	07/29/2011 16:00	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039401B	08/02/2011 09:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243201B	08/03/2011 09:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401A	07/28/2011 20:37	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-105-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA6-SB-2.5-3.5

LLI Sample # SW 6353042
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:59

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0614 SDG#: DE206-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3	J	6.5	7.8		0.89
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.89
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.89
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.89
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.89
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.89
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.89
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.89
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.89
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.89
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.89
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.89
06192	Methylene Chloride	75-09-2	13		0.23	3.9		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.89

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Sample Description: SL-105-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA6-SB-2.5-3.5

LLI Sample # SW 6353042
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:59

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0614 SDG#: DE206-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.89
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.89
06192	Toluene	108-88-3	0.10	J	0.08	3.9		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.9		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.89
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.89
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.4
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: SL-105-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA6-SB-2.5-3.5

LLI Sample # SW 6353042
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:59

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0614 SDG#: DE206-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1

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Sample Description: SL-105-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA6-SB-2.5-3.5

LLI Sample # SW 6353042
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:59

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0614 SDG#: DE206-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.48
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	2.2	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	1.2	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	320	J	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1

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Sample Description: SL-105-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA6-SB-2.5-3.5

LLI Sample # SW 6353042
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:59

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0614 SDG#: DE206-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	1.4		0.44	1.3		1
10199	EFH (C21-C30)	n.a.	1.8		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	6.0		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,900		6.41	21.2		1
07914	Boron	7440-42-8	0.482	J	0.382	5.30		1
01650	Calcium	7440-70-2	4,160		2.65	21.2		1
01654	Iron	7439-89-6	22,600		2.77	21.2		1
01656	Lithium	7439-93-2	27.1		0.66	2.1		1
01657	Magnesium	7439-95-4	5,810		0.466	10.6		1
06958	Manganese	7439-96-5	283		0.0382	0.530		1
10145	Phosphorus	7723-14-0	362		0.371	10.6		1
01662	Potassium	7440-09-7	2,650		12.0	53.0		1
01667	Sodium	7440-23-5	178		6.31	106		1
07968	Strontium	7440-24-6	15.5		0.0265	0.530		1
06969	Tin	7440-31-5	3.11	J	0.339	10.6		1
06970	Titanium	7440-32-6	1,200		0.0753	1.06		1
10146	Zirconium	7440-67-7	2.70	J	0.488	5.30		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.264		0.0792	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.11		0.0856	0.428		2
06126	Barium	7440-39-3	89.8		0.113	0.428		2
06127	Beryllium	7440-41-7	0.567		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.0835	J	0.0471	0.107		2
06131	Chromium	7440-47-3	20.7		0.128	0.428		2
06132	Cobalt	7440-48-4	7.47		0.0214	0.107		2
06133	Copper	7440-50-8	9.92		0.0856	0.428		2
06135	Lead	7439-92-1	5.42		0.0109	0.214		2
06138	Molybdenum	7439-98-7	0.637		0.0535	0.107		2
06139	Nickel	7440-02-0	12.6		0.107	0.428		2
06141	Selenium	7782-49-2	0.0917	J	0.0621	0.428		2
06142	Silver	7440-22-4	0.0298	J	0.0152	0.107		2
06145	Thallium	7440-28-0	0.284		0.0321	0.107		2
06148	Vanadium	7440-62-2	40.3		0.0235	0.107		2
06149	Zinc	7440-66-6	56.1		0.599	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0137	J	0.0075	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-105-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA6-SB-2.5-3.5

LLI Sample # SW 6353042
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:59

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0614 SDG#: DE206-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.9		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.34		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-105-SA6-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B112071AA	07/26/2011	15:15	Kerri E Legerlotz	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112062AA	07/25/2011	18:25	Jason M Long	22.4
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201120324990	07/22/2011	14:31	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201120324990	07/22/2011	14:51	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201120324990	07/22/2011	14:51	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201120324990	07/22/2011	14:32	Larry E Bevins	n.a.
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLL026	08/15/2011	21:01	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11213SLC026	08/05/2011	04:23	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11213SLC026	08/02/2011	08:25	Katheryne V Sponheimer	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-105-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA6-SB-2.5-3.5

LLI Sample # SW 6353042
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:59

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0614 SDG#: DE206-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLL026	08/03/2011 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11206A34A	07/25/2011 22:52	Marie D John	21.48
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120324990	07/22/2011 14:31	Larry E Bevins	n.a.
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112140035A	08/04/2011 16:42	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112140010A	08/04/2011 12:18	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112140010A	08/02/2011 16:20	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112140035A	08/03/2011 09:30	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112080024A	07/28/2011 21:39	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112040001A	07/23/2011 12:13	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112140032A	08/04/2011 13:07	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112140001A	08/03/2011 19:06	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112140001A	08/02/2011 09:30	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112140032A	08/03/2011 06:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112080024A	07/28/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112040001A	07/23/2011 06:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112095708003	08/02/2011 12:23	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112095708003	08/02/2011 12:23	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112095708003	08/02/2011 12:23	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112095708003	08/02/2011 12:23	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112095708003	08/02/2011 12:23	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112095708003	08/02/2011 12:23	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112095708003	08/02/2011 12:23	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112095708003	08/02/2011 12:23	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112095708003	08/02/2011 12:23	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112095708003	08/02/2011 12:23	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112095708003	08/02/2011 12:23	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112095708003	08/03/2011 11:50	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112095708003	08/02/2011 12:23	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112095708003	08/02/2011 12:23	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112091026003A	08/01/2011 09:06	David K Beck	2
06125	Arsenic	SW-846 6020	1	112091026003A	08/01/2011 09:06	David K Beck	2
06126	Barium	SW-846 6020	1	112091026003D	08/01/2011 09:06	David K Beck	2
06127	Beryllium	SW-846 6020	1	112091026003A	08/01/2011 09:06	David K Beck	2
06128	Cadmium	SW-846 6020	1	112091026003A	08/01/2011 09:06	David K Beck	2
06131	Chromium	SW-846 6020	1	112091026003A	08/01/2011 09:06	David K Beck	2
06132	Cobalt	SW-846 6020	1	112091026003A	08/01/2011 09:06	David K Beck	2
06133	Copper	SW-846 6020	1	112091026003A	08/01/2011 09:06	David K Beck	2
06135	Lead	SW-846 6020	1	112091026003A	08/01/2011 09:06	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112091026003C	08/01/2011 09:06	David K Beck	2
06139	Nickel	SW-846 6020	1	112091026003A	08/01/2011 09:06	David K Beck	2
06141	Selenium	SW-846 6020	1	112091026003B	08/01/2011 09:06	David K Beck	2

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Sample Description: SL-105-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA6-SB-2.5-3.5

LLI Sample # SW 6353042
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:59

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0614 SDG#: DE206-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112091026003A	08/01/2011 09:06	David K Beck	2
06145	Thallium	SW-846 6020	1	112091026003A	08/01/2011 09:06	David K Beck	2
06148	Vanadium	SW-846 6020	1	112091026003A	08/01/2011 09:06	David K Beck	2
06149	Zinc	SW-846 6020	1	112091026003A	08/01/2011 09:06	David K Beck	2
00159	Mercury	SW-846 7471A	1	112095711004	07/29/2011 12:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112095708003	07/28/2011 08:34	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112091026003	07/29/2011 08:52	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112095711004	07/28/2011 10:31	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11214284202B	08/03/2011 16:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11210373203B	08/03/2011 00:50	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11221243201B	08/10/2011 21:52	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11214284202B	08/02/2011 17:55	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11210373203B	07/29/2011 16:00	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039401B	08/02/2011 09:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243201B	08/03/2011 09:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401A	07/28/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: TB-072111 Water
SSFL Area IV Collocated Soil Sampling
TB-072111

LLI Sample # WW 6353043
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 08:00

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0615 SDG#: DE206-15TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Lancaster Laboratories

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Analysis Report

Sample Description: TB-072111 Water
SSFL Area IV Collocated Soil Sampling
TB-072111

LLI Sample # WW 6353043
LLI Group # 1257776
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 08:00

Submitted: 07/22/2011 10:10
Reported: 08/31/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0615 SDG#: DE206-15TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260B	SW-846 8260B	1	Y112062AA	07/25/2011 22:36	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112061AA	07/25/2011 11:09	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E112061AA	07/25/2011 11:09	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y112062AA	07/25/2011 22:36	Frank A Valla, Jr	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11206C20A	07/26/2011 00:09	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11206C20A	07/26/2011 00:09	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257776
Reported: 08/31/11 at 01:02 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B112071AA	Sample number(s): 6353038-6353039,6353041-6353042									
Acetone	6.7	U	6.7	8.0	ug/kg	111	105	32-209	6	30
Benzene	0.10	U	0.10	4.0	ug/kg	110	109	80-120	1	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	94	95	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	105	105	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	103	103	78-120	0	30
Bromoform	0.40	U	0.40	4.0	ug/kg	95	94	70-120	2	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	85	85	32-162	0	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	111	105	46-153	5	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	103	101	72-120	2	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	100	100	75-120	0	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	96	97	75-120	1	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	109	107	69-122	2	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100	100	80-120	0	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	80	82	37-154	1	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	112	112	43-146	1	30
Chloroform	0.12	U	0.12	4.0	ug/kg	108	106	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	105	106	54-132	0	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	96	96	78-120	0	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	98	97	79-120	1	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	97	94	22-131	4	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	101	95	58-120	6	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	96	96	77-120	0	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	102	100	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	108	106	80-120	2	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	98	98	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	95	96	78-120	0	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	95	95	79-120	0	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	111	107	20-120	3	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	110	110	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	108	107	71-129	1	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	124*	124*	73-123	1	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	108	107	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	109	107	79-120	2	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	106	106	80-120	0	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	102	102	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	109	107	72-123	2	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	111	110	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	102	103	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	95	98	77-120	2	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	101	100	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	140*	134*	61-126	4	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	120	118	78-120	2	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	100	98	57-120	2	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	110	103	45-155	6	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	100	100	76-120	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257776
Reported: 08/31/11 at 01:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	99	99	75-120	0	30
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	108	107	74-121	1	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	124	122	61-134	2	30
Methylene Chloride	1.7	J	0.24	4.0	ug/kg	114	113	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	102	101	77-120	0	30
Styrene	0.10	U	0.10	4.0	ug/kg	102	100	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	97	96	80-120	1	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	98	96	71-123	2	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	99	99	77-120	1	30
Toluene	0.08	U	0.08	4.0	ug/kg	100	100	80-120	0	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	96	95	64-120	1	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	95	95	68-120	0	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	109	106	71-125	3	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	102	102	80-120	0	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	107	106	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	109	106	58-133	3	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	102	97	71-123	5	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	99	98	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	98	99	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	105	104	53-120	1	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	103	102	80-120	0	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	100	99	80-120	0	30
Batch number: E112061AA	Sample number(s): 6353043									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	112	118	80-123	5	30
Batch number: E112062AA	Sample number(s): 6353038-6353039,6353041-6353042									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	99	96	70-130	3	30
Batch number: Y112062AA	Sample number(s): 6353043									
Acetone	6	U	6.	20	ug/l	82	81	49-234	0	30
Benzene	0.5	U	0.5	5	ug/l	101	102	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	115	118	80-120	2	30
Bromochloromethane	1	U	1.	5	ug/l	114	116	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	99	100	80-120	1	30
Bromoform	1	U	1.	5	ug/l	103	103	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	76	78	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	80	82	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	96	97	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	99	101	78-120	2	30
tert-Butylbenzene	1	U	1.	5	ug/l	106	107	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	100	99	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	105	107	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	78	82	49-129	5	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	101	106	56-129	5	30
Chloroform	0.8	U	0.8	5	ug/l	100	101	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	77	80	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	112	113	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	111	113	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	80	77	38-136	4	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	94	94	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	99	102	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	99	101	80-120	2	30
Dibromomethane	1	U	1.	5	ug/l	100	101	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	105	104	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	115	116	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	110	112	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	71	72	47-120	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257776
Reported: 08/31/11 at 01:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1-Dichloroethane	1	U	1.	5	ug/l	103	103	79-120	1	30
1,2-Dichloroethane	1	U	1.	5	ug/l	103	103	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	90	92	74-123	3	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	104	106	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	103	105	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	98	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	96	98	80-120	2	30
2,2-Dichloropropane	1	U	1.	5	ug/l	96	99	77-124	3	30
1,1-Dichloropropene	1	U	1.	5	ug/l	104	106	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	104	106	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	91	95	79-120	5	30
Ethylbenzene	0.8	U	0.8	5	ug/l	95	98	79-120	3	30
Freon 113	2	U	2.	10	ug/l	91	92	69-128	1	30
Freon 133a	2	U	2.	5	ug/l	80	78	77-120	3	30
Hexachlorobutadiene	2	U	2.	5	ug/l	98	103	58-120	6	30
2-Hexanone	3	U	3.	10	ug/l	74	76	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	101	103	77-120	2	30
p-Isopropyltoluene	1	U	1.	5	ug/l	106	107	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	97	99	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	81	82	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	99	100	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	96	97	80-120	2	30
Styrene	1	U	1.	5	ug/l	97	98	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	104	105	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	92	94	71-120	2	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	110	111	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	96	100	79-120	4	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	112	116	65-120	3	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	106	109	67-120	3	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	98	101	75-127	3	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	96	98	80-120	2	30
Trichloroethene	1	U	1.	5	ug/l	104	104	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	74	75	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	99	101	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	105	106	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	103	106	75-120	3	30
Vinyl Chloride	1	U	1.	5	ug/l	80	83	65-125	4	30
m+p-Xylene	0.8	U	0.8	5	ug/l	99	101	80-120	3	30
o-Xylene	0.8	U	0.8	5	ug/l	96	99	80-120	3	30
Batch number: 11213SLA026	Sample number(s): 6353026-6353028,6353031,6353033,6353036									
N-Nitrosodimethylamine	40.2		16.7	33.3	ng/kg	100		70-130		
Batch number: 11213SLC026	Sample number(s): 6353026-6353028,6353030-6353042									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	92		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	89		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	97		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	99		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	79		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	87		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	76		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	79		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	108		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	115		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	103		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	75		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	111		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	102		79-121		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257776
Reported: 08/31/11 at 01:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	103		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	113		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	99		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	76		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	86		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	89		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	95		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	86		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	98		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	98		72-119		
Batch number: 11214SLL026	Sample number(s): 6353026-6353028,6353030-6353042									
Acenaphthene	17	U	17.	170	ug/kg	93		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	99		75-122		
Aniline	170 U		170.	500	ug/kg	62		20-115		
Anthracene	17	U	17.	170	ug/kg	97		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	34		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	92		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	97		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	106		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	103		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	98		67-125		
Benzoic acid	170 U		170.	500	ug/kg	76		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	86		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	103		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	96		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	97		79-112		
Carbazole	17	U	17.	170	ug/kg	91		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	27		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	96		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	91		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	92		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	95		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	95		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	94		74-115		
Chrysene	17	U	17.	170	ug/kg	92		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	102		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	90		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	87		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	44		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	95		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	95		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	94		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	101		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	94		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	76		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	61		18-133		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257776
Reported: 08/31/11 at 01:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	91		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	97		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	101		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	96		75-117		
Fluoranthene	17	U	17.	170	ug/kg	95		78-116		
Fluorene	17	U	17.	170	ug/kg	94		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	101		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	94		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	96		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	87		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	103		64-119		
Isophorone	17	U	17.	170	ug/kg	93		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	93		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	93		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	96		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	92		66-117		
Naphthalene	17	U	17.	170	ug/kg	91		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	93		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	81		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	62		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	94		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	92		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	79		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	87		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	89		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	106		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	68		51-117		
Phenanthrene	17	U	17.	170	ug/kg	93		77-113		
Phenol	17	U	17.	170	ug/kg	88		58-112		
Pyrene	17	U	17.	170	ug/kg	95		75-115		
Tetralin	170	U	170.	170	ug/kg	141*		70-130		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	91		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	92		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	96		78-111		
Batch number: 11206A34A	Sample number(s): 6353038-6353042									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	73	71	67-119	3	30
Batch number: 11206C20A	Sample number(s): 6353043									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	91	100	75-135	10	30
Batch number: 112140015A	Sample number(s): 6353026-6353028,6353031,6353033,6353036									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	106		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	106		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	85	85	54-134	0	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	85	85	54-134	0	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	110		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	102		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	104		80-120		
HMX	100	U	100.	300	ug/kg	92		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	104		80-120		
Nitroglycerin	800		800.	2,400	ug/kg	80		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257776
Reported: 08/31/11 at 01:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Nitrotoluene	80	U	80.	120	ug/kg	103		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	110		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	102		80-120		
PETN	800	U	800.	2,400	ug/kg	95		80-120		
RDX	50	U	50.	120	ug/kg	92		75-131		
Tetryl	61	U	61.	120	ug/kg	91		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	104		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	112		80-120		
Batch number: 112070008A	Sample number(s): 6353026-6353028,6353031,6353033,6353036									
20a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	90		80-126		
Batch number: 112150006A	Sample number(s): 6353026-6353037									
2,4-D	1.2	U	1.2	3.6	ug/kg	96		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	67		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	86		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	73		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	10		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	114		62-170		
MCPA	76	U	76.	250	ug/kg	64		60-130		
MCPP (Mecoprop)	81	J	75.	250	ug/kg	78		54-137		
2,4,5-T	0.085	J	0.082	0.17	ug/kg	89		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	81		68-114		
Batch number: 112140035A	Sample number(s): 6353032,6353034,6353038-6353042									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	114		85-115		
Batch number: 112140010A	Sample number(s): 6353026-6353028,6353030-6353042									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	83	71	36-106	16	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	81		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	89		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112140012A	Sample number(s): 6353026-6353037									
Aldrin	0.066	U	0.066	0.17	ug/kg	67		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	62		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	81		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	71		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	97		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	92		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	106		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	84		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	91		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	88		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	106		63-127		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257776
Reported: 08/31/11 at 01:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	105		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	93		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	88		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	103		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	79		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	88		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	113		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112040001A	Sample number(s): 6353026-6353028,6353031,6353033,6353036,6353038-6353042									
Diethylene glycol	5.0	U	5.0	10	mg/kg	86		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	85		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	80		75-125		
Batch number: 112080024A	Sample number(s): 6353026-6353028,6353031,6353033,6353036,6353038-6353042									
Ethanol	100	U	100.	500	ug/kg	92		71-129		
Isopropanol	100	U	100.	500	ug/kg	92		75-125		
Methanol	100	U	100.	500	ug/kg	85		68-129		
Batch number: 112140001A	Sample number(s): 6353026-6353028,6353031,6353033,6353036,6353038-6353042									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	77		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	82		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	81		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	80		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	70		54-107		
Batch number: 112140032A	Sample number(s): 6353026-6353028,6353031,6353033,6353036,6353038-6353042									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	85		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	102		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
Batch number: 112091026003A	Sample number(s): 6353026-6353042									
Antimony	0.0733	U	0.0733	0.198	mg/kg	59		40-224		
Arsenic	0.0792	U	0.0792	0.396	mg/kg	96		78-122		
Beryllium	0.0158	U	0.0158	0.0990	mg/kg	96		80-120		
Cadmium	0.0436	U	0.0436	0.0990	mg/kg	95		81-119		
Chromium	0.119	U	0.119	0.396	mg/kg	105		77-123		
Cobalt	0.0198	U	0.0198	0.0990	mg/kg	94		80-119		
Copper	0.126	J	0.0792	0.396	mg/kg	100		78-122		
Lead	0.0214	J	0.0101	0.198	mg/kg	96		77-123		
Nickel	0.0990	U	0.0990	0.396	mg/kg	101		80-120		
Silver	0.0141	U	0.0141	0.0990	mg/kg	97		66-134		
Thallium	0.0297	U	0.0297	0.0990	mg/kg	98		75-124		
Vanadium	0.0218	U	0.0218	0.0990	mg/kg	109		76-124		
Zinc	0.554	U	0.554	2.97	mg/kg	98		79-121		
Batch number: 112091026003B	Sample number(s): 6353026-6353042									
Selenium	0.0574	U	0.0574	0.396	mg/kg	99		77-123		
Batch number: 112091026003C	Sample number(s): 6353026-6353042									
Molybdenum	0.0495	U	0.0495	0.0990	mg/kg	99		76-123		
Batch number: 112091026003D	Sample number(s): 6353026-6353042									
Barium	0.105	U	0.105	0.396	mg/kg	97		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257776
Reported: 08/31/11 at 01:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112095708003	Sample number(s): 6353026-6353042									
Aluminum	7.99	J	5.99	19.8	mg/kg	137		42-158		
Boron	1.43	J	0.356	4.95	mg/kg	101		66-134		
Calcium	17.3	J	2.48	19.8	mg/kg	98		79-121		
Iron	4.29	J	2.58	19.8	mg/kg	115		51-149		
Lithium	0.61	U	0.61	2.0	mg/kg	97		80-120		
Magnesium	1.24	J	0.436	9.90	mg/kg	115		64-136		
Manganese	0.0356	U	0.0356	0.495	mg/kg	97		78-122		
Phosphorus	1.48	J	0.347	9.90	mg/kg	101		80-120		
Potassium	11.2	U	11.2	49.5	mg/kg	108		69-131		
Sodium	5.89	U	5.89	99.0	mg/kg	102		71-129		
Strontium	0.101	J	0.0248	0.495	mg/kg	97		81-119		
Tin	1.80	J	0.317	9.90	mg/kg	92		74-126		
Titanium	0.0703	U	0.0703	0.990	mg/kg	161		40-186		
Zirconium	0.455	U	0.455	4.95	mg/kg	100		80-120		
Batch number: 112095711004	Sample number(s): 6353026-6353042									
Mercury	0.0070	U	0.0070	0.0993	mg/kg	97		72-128		
Batch number: 11210373203A	Sample number(s): 6353026-6353027,6353029-6353038									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	88		85-115		
Batch number: 11210373203B	Sample number(s): 6353039-6353042									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	88		85-115		
Batch number: 11214284202A	Sample number(s): 6353026-6353027,6353029-6353038									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	99		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	109		90-110		
Batch number: 11214284202B	Sample number(s): 6353039-6353042									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	99		90-110		
Batch number: 11215102201A	Sample number(s): 6353026-6353027,6353029,6353031,6353033,6353036									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	101		80-120		
Batch number: 11221243201B	Sample number(s): 6353026-6353027,6353029-6353042									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	92		80-120		
Batch number: 11214039401A	Sample number(s): 6353026,6353029-6353037									
17a pH by 9045C						100		95-105		
Batch number: 11214039401B	Sample number(s): 6353038-6353042									
17a pH by 9045C						100		95-105		
Batch number: 11209162401A	Sample number(s): 6353030,6353032,6353034-6353035,6353037-6353042									
Moisture Content by 160.3						100		80-120		
Batch number: 11222162401A	Sample number(s): 6353026-6353029,6353031,6353033,6353036									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257776
Reported: 08/31/11 at 01:02 PM
Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11213SLA026	Sample number(s): 6353026-6353028,6353031,6353033,6353036 UNSPK: 6353026								
N-Nitrosodimethylamine	78	75	70-130	5	30				
Batch number: 11213SLC026	Sample number(s): 6353026-6353028,6353030-6353042 UNSPK: 6353026								
Acenaphthene	100	95	63-105	5	30				
Acenaphthylene	96	98	67-114	2	30				
Anthracene	104	117*	73-115	10	30				
Benzo(a)anthracene	123	170*	59-128	25	30				
Benzo(a)pyrene	113	120	58-142	5	30				
Benzo(b)fluoranthene	119	219*	54-163	36*	30				
Benzo(g,h,i)perylene	43	47	33-141	6	30				
Benzo(k)fluoranthene	128	190*	57-153	32*	30				
Butylbenzylphthalate	97	96	57-173	1	30				
Di-n-butylphthalate	103	104	65-148	0	30				
Chrysene	97	246*	67-123	44*	30				
Dibenz(a,h)anthracene	49	52	22-133	6	30				
Diethylphthalate	111	105	70-136	5	30				
Dimethylphthalate	110	106	74-118	4	30				
Bis(2-Ethylhexyl)phthalate	116	85	39-167	19	30				
Fluoranthene	197*	438*	51-149	50*	30				
Fluorene	104	103	66-122	1	30				
Indeno(1,2,3-cd)pyrene	51	58	21-143	9	30				
1-Methylnaphthalene	95	95	72-123	0	30				
2-Methylnaphthalene	91	91	64-103	1	30				
Naphthalene	94	91	61-102	3	30				
N-Nitrosodimethylamine	108	106	48-113	2	30				
Di-n-octylphthalate	105	110	40-192	4	30				
Phenanthrene	131*	150*	62-122	9	30				
Pyrene	160*	317*	51-131	43*	30				
Batch number: 11214SLL026	Sample number(s): 6353026-6353028,6353030-6353042 UNSPK: 6353026								
Acenaphthene	93	92	75-115	0	30				
Acenaphthylene	100	99	81-110	2	30				
Aniline	56	52	18-116	7	30				
Anthracene	101	99	75-115	2	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	99	98	65-122	1	30				
Benzo(a)pyrene	98	96	57-126	2	30				
Benzo(b)fluoranthene	97	93	59-125	5	30				
Benzo(g,h,i)perylene	108	106	59-127	2	30				
Benzo(k)fluoranthene	98	97	56-132	2	30				
Benzoic acid	28	30	10-173	6	30				
Benzyl alcohol	93	91	67-115	2	30				
4-Bromophenyl-phenylether	105	106	67-129	1	30				
Butylbenzylphthalate	100	103	73-134	3	30				
Di-n-butylphthalate	99	100	67-123	1	30				
Carbazole	94	94	64-120	0	30				
4-Chloro-3-methylphenol	89	90	62-122	0	30				
4-Chloroaniline	31	33	13-107	6	30				
bis(2-Chloroethoxy)methane	93	94	75-104	1	30				
bis(2-Chloroethyl)ether	97	94	60-116	3	30				
bis(2-Chloroisopropyl)ether	97	96	55-142	1	30				
2-Chloronaphthalene	97	94	50-141	3	30				
2-Chlorophenol	101	98	73-121	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257776
Reported: 08/31/11 at 01:02 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Chlorophenyl-phenylether	94	91	80-109	3	30				
Chrysene	101	94	62-128	7	30				
Dibenz(a,h)anthracene	107	110	65-125	3	30				
Dibenzofuran	90	88	71-112	2	30				
1,2-Dichlorobenzene	90	89	66-108	2	30				
1,3-Dichlorobenzene	90	87	63-109	3	30				
1,4-Dichlorobenzene	90	87	58-108	3	30				
3,3'-Dichlorobenzidine	56	60	28-109	6	30				
2,4-Dichlorophenol	94	93	66-123	0	30				
Diethylphthalate	94	94	66-118	0	30				
2,4-Dimethylphenol	89	89	68-118	0	30				
3,5-Dimethylphenol	99	97	71-127	2	30				
Dimethylphthalate	96	95	64-118	1	30				
4,6-Dinitro-2-methylphenol	67	67	11-126	1	30				
2,4-Dinitrophenol	26	25	20-143	1	30				
2,4-Dinitrotoluene	88	86	56-129	2	30				
2,6-Dinitrotoluene	98	93	69-123	5	30				
1,2-Diphenylhydrazine	106	109	71-129	3	30				
bis(2-Ethylhexyl)phthalate	101	103	63-122	2	30				
Fluoranthene	110	92	73-112	18	30				
Fluorene	94	89	63-121	6	30				
Hexachlorobenzene	107	105	77-114	1	30				
Hexachlorobutadiene	93	96	62-120	3	30				
Hexachlorocyclopentadiene	87	81	10-153	7	30				
Hexachloroethane	94	89	57-109	5	30				
Indeno(1,2,3-cd)pyrene	106	107	61-126	1	30				
Isophorone	91	93	73-102	2	30				
1-Methylnaphthalene	91	91	64-122	1	30				
2-Methylnaphthalene	92	92	76-114	1	30				
2-Methylphenol	100	98	75-111	2	30				
4-Methylphenol	97	95	59-123	2	30				
Naphthalene	90	90	72-116	0	30				
2-Nitroaniline	94	92	67-125	1	30				
3-Nitroaniline	81	82	59-122	1	30				
4-Nitroaniline	71	71	41-109	0	30				
Nitrobenzene	92	94	57-125	3	30				
2-Nitrophenol	91	90	56-127	1	30				
4-Nitrophenol	72	75	37-129	4	30				
N-Nitroso-di-n-propylamine	92	90	60-116	3	30				
N-Nitrosodimethylamine	86	86	47-116	0	30				
N-Nitrosodiphenylamine	101	103	71-122	1	30				
Di-n-octylphthalate	100	102	56-126	1	30				
Pentachlorophenol	66	76	28-127	14	30				
Phenanthrene	109	95	65-125	14	30				
Phenol	94	91	58-126	4	30				
Pyrene	112	97	74-126	14	30				
Tetralin	0*	0*	70-130	0	30				
1,2,4-Trichlorobenzene	90	90	72-115	0	30				
2,4,5-Trichlorophenol	93	91	58-129	3	30				
2,4,6-Trichlorophenol	97	95	56-134	2	30				

Batch number: 112140015A Sample number(s): 6353026-6353028,6353031,6353033,6353036 UNSPK: 6353026

4-Amino-2,6-Dinitrotoluene	111	106	80-127	4	50

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Quality Control Summary

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Reported: 08/31/11 at 01:02 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Amino-4,6-Dinitrotoluene	108	105	80-137	2	50				
1,3-Dinitrobenzene	109	109	38-166	0	50				
2,4-Dinitrotoluene	104	101	80-131	2	50				
2,6-Dinitrotoluene	112	104	80-127	7	50				
HMX	95	91	63-128	4	50				
Nitrobenzene	92	104	80-125	12	50				
Nitroglycerin	87	84	80-120	4	50				
2-Nitrotoluene	106	102	80-122	4	50				
3-Nitrotoluene	114	111	72-119	3	50				
4-Nitrotoluene	105	102	80-125	4	50				
PETN	104	102	80-121	3	50				
RDX	93	90	75-129	3	50				
Tetryl	109	83	55-174	27	50				
1,3,5-Trinitrobenzene	105	101	82-126	4	50				
2,4,6-Trinitrotoluene	112	108	82-130	4	50				
Batch number: 112070008A	Sample number(s): 6353026-6353028,6353031,6353033,6353036 UNSPK: 6353026								
20a Formaldehyde 8315A	100	93	80-120	7	50				
Batch number: 112150006A	Sample number(s): 6353026-6353037 UNSPK: 6353026								
2,4-D	84	56	17-180	39*	35				
Dalapon	32	41	10-125	27	50				
2,4-DB	95	106	10-201	11	50				
Dicamba	0*	84	10-190	200*	50				
Dinoseb	0*	7*	10-46	200*	35				
2,4-DP (Dichlorprop)	84	96	33-178	14	50				
MCPA	55	12	10-213	127*	50				
MCPP (Mecoprop)	84	83	10-184	0	50				
2,4,5-T	29	30	10-156	4	35				
2,4,5-TP	39	37	24-141	3	35				
Batch number: 112140035A	Sample number(s): 6353032,6353034,6353038-6353042 UNSPK: 6353032								
6a Perchlorate EPA 6850	119	120	80-120	1	20				
Batch number: 112140010A	Sample number(s): 6353026-6353028,6353030-6353042 UNSPK: 6353026								
PCB-1016	103	108	29-146	5	50				
PCB-1260	135	144	39-149	6	50				
Batch number: 112140012A	Sample number(s): 6353026-6353037 UNSPK: 6353026								
Aldrin	85	85	16-126	0	50				
Alpha BHC	71	68	10-129	4	50				
Beta BHC	113	91	14-147	22	50				
Gamma BHC - Lindane	79	79	10-140	0	50				
p,p-DDD	110	0*	16-163	200*	50				
p,p-DDE	52 (2)	-70 (2)	18-161	21	50				
p,p-DDT	8 (2)	-27 (2)	10-176	3	50				
Delta BHC	63	97	23-140	29	50				
Dieldrin	143	162*	19-154	13	50				
Endosulfan I	65	59	16-137	10	50				
Endosulfan II	86	92	28-154	7	50				
Endosulfan Sulfate	105	108	21-160	3	50				
Endrin	0*	84	11-149	200*	50				
Endrin Aldehyde	124	124	10-148	0	35				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257776
Reported: 08/31/11 at 01:02 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Endrin Ketone	17*	50	22-165	36	50				
Heptachlor	87	87	13-126	0	50				
Heptachlor Epoxide	139	139	13-157	0	50				
Methoxychlor	103	107	32-147	3	50				
Batch number: 112040001A	Sample number(s): 6353026-6353028,6353031,6353033,6353036,6353038-6353042 UNSPK: 6353026								
Diethylene glycol	13*	13*	59-109	2	20				
Ethylene glycol	47*	44*	63-107	6	20				
Propylene glycol	65	60*	63-107	7	20				
Batch number: 112080024A	Sample number(s): 6353026-6353028,6353031,6353033,6353036,6353038-6353042 UNSPK: 6353026								
Ethanol	48	83	48-130	53*	20				
Isopropanol	35	91	12-149	89*	20				
Methanol	50	87	43-138	55*	20				
Batch number: 112140001A	Sample number(s): 6353026-6353028,6353031,6353033,6353036,6353038-6353042 UNSPK: 6353026								
EFH (C12-C14)	102	96	49-123	6	20				
EFH (C15-C20)	-66*	16*	49-123	23*	20				
EFH (C21-C30)	-268 (2)	-38 (2)	49-123	29*	20				
EFH (C30 - C40)	476 (2)	318 (2)	49-123	9	20				
EFH (C8-C11)	12*	0*	49-123	11	20				
Batch number: 112140032A	Sample number(s): 6353026-6353028,6353031,6353033,6353036,6353038-6353042 UNSPK: 6353026								
m-Terphenyl	80	80	75-125	0	20				
o-Terphenyl	101	102	75-125	1	20				
p-Terphenyl	89	89	75-125	0	20				
Batch number: 112091026003A	Sample number(s): 6353026-6353042 UNSPK: 6353026 BKG: 6353026								
Antimony	26*	24*	75-125	6	20	0.202	0.206	2 (1)	20
Arsenic	89	79	75-125	4	20	3.50	3.46	1	20
Beryllium	91	89	75-125	1	20	0.527	0.507	4	20
Cadmium	87	83	75-125	3	20	0.548	0.485	12 (1)	20
Chromium	84	78	75-125	2	20	19.5	18.3	7	20
Cobalt	94	94	75-125	0	20	6.08	5.47	11	20
Copper	96	92	75-125	1	20	12.3	12.4	1	20
Lead	83 (2)	80 (2)	75-125	0	20	20.8	21.1	1	20
Nickel	103	98	75-125	2	20	14.6	14.5	1	20
Silver	102	100	75-125	2	20	0.502	0.539	7	20
Thallium	84	92	75-125	5	20	0.281	0.249	12 (1)	20
Vanadium	85	75	75-125	3	20	30.7	29.7	3	20
Zinc	81 (2)	55 (2)	75-125	3	20	77.2	75.5	2	20
Batch number: 112091026003B	Sample number(s): 6353026-6353042 UNSPK: 6353026 BKG: 6353026								
Selenium	97	97	75-125	1	20	0.123 J	0.141 J	14 (1)	20
Batch number: 112091026003C	Sample number(s): 6353026-6353042 UNSPK: 6353026 BKG: 6353026								
Molybdenum	96	95	75-125	1	20	0.581	0.583	0	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257776
Reported: 08/31/11 at 01:02 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112091026003D	Sample number(s): 6353026-6353042 UNSPK: 6353026 BKG: 6353026								
Barium	95 (2)	67 (2)	75-125	2	20	106	102	4	20
Batch number: 112095708003	Sample number(s): 6353026-6353042 UNSPK: 6353026 BKG: 6353026								
Aluminum	1762 (2)	1447 (2)	75-125	3	20	14,200	14,400	1	20
Boron	95	98	84-115	5	20	3.23 J	3.28 J	1 (1)	20
Calcium	190 (2)	174 (2)	75-125	1	20	2,850	3,210	12	20
Iron	1318 (2)	25 (2)	75-125	7	20	18,000	19,200	6	20
Lithium	100	101	82-114	2	20	20.8	21.4	3	20
Magnesium	271 (2)	133 (2)	75-125	6	20	3,950	4,230	7	20
Manganese	189 (2)	106 (2)	75-125	10	20	315	341	8	20
Phosphorus	103 (2)	62 (2)	75-125	8	20	425	423	0	20
Potassium	140*	115	75-125	5	20	3,630	3,670	1	20
Sodium	96	97	75-125	3	20	70.7 J	71.5 J	1 (1)	20
Strontium	98	99	75-115	2	20	23.7	24.8	4	20
Tin	92	92	80-110	3	20	2.86 J	2.68 J	7 (1)	20
Titanium	306 (2)	269 (2)	75-125	2	20	953	970	2	20
Zirconium	89	91	75-125	4	20	2.33 J	2.54 J	9 (1)	20
Batch number: 112095711004	Sample number(s): 6353026-6353042 UNSPK: 6353026 BKG: 6353026								
Mercury	105	100	65-135	3	20	0.0363 J	0.0335 J	8 (1)	20
Batch number: 11210373203A	Sample number(s): 6353026-6353027,6353029-6353038 UNSPK: 6353026 BKG: 6353026								
7a Perchlorate EPA 314.0	90		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11210373203B	Sample number(s): 6353039-6353042 UNSPK: 6353039 BKG: 6353039								
7a Perchlorate EPA 314.0	86		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11214284202A	Sample number(s): 6353026-6353027,6353029-6353038 UNSPK: 6353026 BKG: 6353026								
11a Anions by 300.0 - Fluoride	58*		80-120			2.0	2.8	34* (1)	20
11a Anions by 300.0 - Nitrate	94		80-120			1.1 J	1.2 J	7 (1)	20
Batch number: 11214284202B	Sample number(s): 6353039-6353042 UNSPK: 6353040 BKG: 6353040								
11a Anions by 300.0 - Fluoride	93		80-120			4.0	4.1	1 (1)	20
Batch number: 11215102201A	Sample number(s): 6353026-6353027,6353029,6353031,6353033,6353036 UNSPK: 6353026 BKG: 6353026								
16a Cyanide by 9012B	103		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11221243201B	Sample number(s): 6353026-6353027,6353029-6353042 UNSPK: 6353026 BKG: 6353026								
3a Cr VI by EPA 7199	72*		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11214039401A	Sample number(s): 6353026,6353029-6353037 BKG: 6353026								
17a pH by 9045C						6.78	6.92	2	3
Batch number: 11214039401B	Sample number(s): 6353038-6353042 BKG: 6353042								
17a pH by 9045C						8.34	8.31	0	3
Batch number: 11209162401A	Sample number(s): 6353030,6353032,6353034-6353035,6353037-6353042 BKG: P351927								
Moisture Content by 160.3						10.8	10.9	1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257776
Reported: 08/31/11 at 01:02 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11222162401A	Sample number(s): 6353026-6353029,6353031,6353033,6353036							BKG: 6353026	
28a Moisture Content by 160.3						1.9	1.9	1 (1)	20
Moisture Content by 160.3						1.9	1.9	1 (1)	20
Moisture Content by 160.3						1.9	1.9	1 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B112071AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6353038	105	101	95	87
6353039	105	103	94	93
6353041	106	100	93	92
6353042	106	103	94	94
Blank	105	105	92	95
LCS	102	100	97	102
LCSD	101	100	98	102
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E112061AA

	Toluene-d8
6353043	102
Blank	101
LCS	102
LCSD	101
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E112062AA

	Toluene-d8
6353038	98
6353039	98
6353041	99
6353042	98
Blank	99
LCS	99
LCSD	99
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260B

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257776
Reported: 08/31/11 at 01:02 PM

Surrogate Quality Control

Batch number: Y112062AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6353043	100	106	91	88
Blank	101	107	91	88
LCS	101	108	92	92
LCSD	101	107	93	91
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 21a NDMA by 1625C
Batch number: 11213SLA026

	N-Nitrosodimethylamine-d6
6353026	79
6353027	76
6353028	79
6353031	80
6353033	95
6353036	96
Blank	114
LCS	103
MS	76
MSD	79
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11213SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6353026	112	94	92
6353027	108	94	91
6353028	106	90	92
6353030	107	91	93
6353031	104	94	98
6353032	102	91	97
6353033	112	98	107
6353034	99	87	102
6353035	103	88	107
6353036	94	83	100
6353037	102	92	107
6353038	105	94	122
6353039	98	88	110
6353040	90	86	110
6353041	94	93	115
6353042	93	88	109
Blank	100	93	111
LCS	95	87	99
MS	108	94	91
MSD	106	90	92
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11214SLL026

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257776
Reported: 08/31/11 at 01:02 PM

Surrogate Quality Control

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6353026	95	89	91	82	88	88
6353027	97	94	90	87	92	85
6353028	93	91	87	87	90	85
6353030	95	92	88	87	96	86
6353031	85	84	61	81	88	77
6353032	89	89	85	87	94	84
6353033	90	91	82	84	94	80
6353034	84	84	82	86	91	81
6353035	81	80	80	79	86	77
6353036	89	89	81	86	94	82
6353037	82	82	65	82	86	77
6353038	85	85	67	85	91	80
6353039	82	82	83	80	86	84
6353040	83	82	81	80	84	81
6353041	87	86	83	86	92	83
6353042	86	87	79	87	85	83
Blank	88	86	92	82	87	86
LCS	93	91	93	88	90	84
MS	97	94	90	87	92	85
MSD	93	91	87	87	90	85
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11206A34A

	Trifluorotoluene-F
6353038	114
6353039	77
6353040	77
6353041	84
6353042	76
Blank	80
LCS	89
LCSD	85
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11206C20A

	Trifluorotoluene-F
6353043	99
Blank	97
LCS	130
LCSD	134
Limits:	63-135

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112070008A

	Butyraldehyde
6353026	112
6353027	112

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257776
Reported: 08/31/11 at 01:02 PM

Surrogate Quality Control

6353028	103
6353031	115
6353033	113
6353036	110
Blank	108
LCS	112
MS	112
MSD	103
Limits:	64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112140010A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6353026	89	59
6353027	88	52
6353028	86	53
6353030	111	41*
6353031	82	82
6353032	76	0*
6353033	106	0*
6353034	89	0*
6353035	79	0*
6353036	86	48
6353037	87	108
6353038	71	68
6353039	79	73
6353040	82	75
6353041	81	65
6353042	91	74
Blank	95	90
LCS	100	101
LCSD	78	83
MS	88	52
MSD	86	53
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 112140012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6353026	64	45
6353027	76	15*
6353028	75	0*
6353029	55	14*
6353030	63	41
6353031	62	130*
6353032	76	0*
6353033	86	0*
6353034	68	27
6353035	67	22
6353036	56	91
6353037	60	87
Blank	69	105
LCS	55	104
MS	76	15*

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257776
Reported: 08/31/11 at 01:02 PM

Surrogate Quality Control

MSD	75	0*
Limits:	50-130	20-120

Analysis Name: 15a Energetics by 8330A
Batch number: 112140015A

	2-Nitro-m-xylene
6353026	108
6353027	106
6353028	103
6353031	112
6353033	112
6353036	114
Blank	121
LCS	110
LCSD	106
MS	106
MSD	103
Limits:	80-146

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112150006A

	2,4-Dichlorophenylacetic acid
6353026	77
6353027	81
6353028	86
6353029	77
6353030	82
6353031	78
6353032	76
6353033	74
6353034	77
6353035	169*
6353036	69
6353037	73
Blank	93
LCS	101
MS	81
MSD	86
Limits:	36-156

Analysis Name: 19a Glycols by 8015B
Batch number: 112040001A

	Tetramethylene glycol
6353026	84
6353027	97
6353028	91
6353031	89
6353033	94
6353036	91
6353038	90

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257776
Reported: 08/31/11 at 01:02 PM

Surrogate Quality Control

6353039	94
6353040	89
6353041	93
6353042	92
Blank	123
LCS	104
MS	97
MSD	91
Limits:	29-137

Analysis Name: 18a Alcohols by 8015B
Batch number: 112080024A

	Acetone
6353026	95
6353027	72
6353028	100
6353031	107
6353033	123
6353036	106
6353038	90
6353039	93
6353040	87
6353041	90
6353042	91
Blank	98
LCS	100
MS	72
MSD	100
Limits:	42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112140001A

	Chlorobenzene	Orthoterphenyl
6353026	83	99
6353027	76	100
6353028	76	91
6353031	76	96
6353033	78	120
6353036	70	92
6353038	75	120
6353039	70	90
6353040	73	86
6353041	75	102
6353042	71	96
Blank	69	97
LCS	72	87
MS	76	100
MSD	76	91
Limits:	37-125	47-145

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112140032A

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257776
Reported: 08/31/11 at 01:02 PM

Surrogate Quality Control

	n-Triacontane-d62
6353026	63
6353027	66
6353028	65
6353031	67
6353033	62
6353036	79
6353038	53
6353039	82
6353040	78
6353041	64
6353042	79
Blank	83
LCS	83
MS	66
MSD	65
Limits:	50-150

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13013 / 1257776/6353036.43

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-211-SA6-SS-0.0-0.5MS	7/21/11	1023	SOIL	NONE	2-SS Sleeve			X	X																	MS/MSD
SL-211-SA6-SS-0.0-0.5MS	7/21/11	1023	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X	X	X	X										MS/MSD
SL-214-SA6-SS-0.0-0.5	7/21/11	0907	SOIL	NONE	1-SS Sleeve			X	X																	
SL-214-SA6-SS-0.0-0.5	7/21/11	0907	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
SL-216-SA6-SS-0.0-0.5	7/21/11	0949	SOIL	NONE	1-SS Sleeve			X	X																	
SL-216-SA6-SS-0.0-0.5	7/21/11	0949	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-219-SA6-SS-0.0-0.5	7/21/11	0925	SOIL	NONE	1-SS Sleeve			X	X																	
SL-219-SA6-SS-0.0-0.5	7/21/11	0925	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X	X	X	X	X						X	X	X	
SL-228-SA6-SS-0.0-0.5MS	7/21/11	1239	SOIL	NONE	2-SS Sleeve			X	X																	MS/MSD
SL-228-SA6-SS-0.0-0.5MS	7/21/11	1239	SOIL	NONE	4-16 oz.jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	MS/MSD
SL-237-SA6-SS-0.0-0.5	7/21/11	1400	SOIL	NONE	1-SS Sleeve			X	X																	
SL-237-SA6-SS-0.0-0.5	7/21/11	1400	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
SL-240-SA6-SS-0.0-0.5	7/21/11	1501	SOIL	NONE	1-SS Sleeve			X	X																	
SL-240-SA6-SS-0.0-0.5	7/21/11	1501	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-314-SA6-SS-0.0-0.5	7/21/11	1314	SOIL	NONE	1-SS Sleeve			X	X																	
SL-314-SA6-SS-0.0-0.5	7/21/11	1314	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X	X	X	X										
SL-315-SA6-SS-0.0-0.5	7/21/11	1337	SOIL	NONE	1-SS Sleeve			X	X																	
SL-315-SA6-SS-0.0-0.5	7/21/11	1337	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-316-SA6-SS-0.0-0.5	7/21/11	1420	SOIL	NONE	1-SS Sleeve			X	X																	
SL-316-SA6-SS-0.0-0.5	7/21/11	1420	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X	X	X	X										
SL-318-SA6-SS-0.0-0.5	7/21/11	1441	SOIL	NONE	1-SS Sleeve			X	X																	
SL-318-SA6-SS-0.0-0.5	7/21/11	1441	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
DUP06-SA6-QC-072111	7/21/11	1249	SOIL	NONE	1-SS Sleeve			X	X																	
DUP06-SA6-QC-072111	7/21/11	1249	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
DUP05-SA6-QC-072111	7/21/11	1040	SOIL	NONE	1-SS Sleeve			X	X																	
DUP05-SA6-QC-072111	7/21/11	1040	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	07/21/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	7/22/11/1010	8754 3340 9674,9685, 9663	

13013
~~12898~~ / 1257776 / 6353026-43
7/22/11

CHAIN OF CUSTODY RECORD

CDM — SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-073-SA6-SB-4.5	7/21/11	0955	SOIL	NONE	5-Encores										X	X	X										
SL-073-SA6-SB-4.0-5.0	7/21/11	1000	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-081-SA6-SB-4.5	7/21/11	1505	SOIL	NONE	5-Encores										X	X	X										
SL-081-SA6-SB-4.0-5.0	7/21/11	1510	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-081-SA6-SB-9.5	7/21/11	1515	SOIL	NONE	1-Encore												X										
SL-081-SA6-SB-9.0-10.0	7/21/11	1520	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-104-SA6-SB-3.0	7/21/11	1435	SOIL	NONE	5-Encores										X	X	X										
SL-104-SA6-SB-2.5-3.5	7/21/11	1440	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-105-SA6-SB-3.0	7/21/11	1055	SOIL	NONE	5-Encore										X	X	X										
SL-105-SA6-SB-2.5-3.5	7/21/11	1059	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
TB-072111	7/21/11	0800	SOIL	NONE	4-40mL Vials										X	X	X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	07/21/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	7/22/11 / 1810	8754 3340 9674,9685, 9663	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 17, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/22/2011
Group Number: 1257838
SDG: DX116
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-211-SA6-SS-0.0-0.5 Soil	6353211
SL-211-SA6-SS-0.0-0.5MS Soil	6353212
SL-211-SA6-SS-0.0-0.5MSD Soil	6353213
SL-214-SA6-SS-0.0-0.5 Soil	6353214
SL-216-SA6-SS-0.0-0.5 Soil	6353215
SL-219-SA6-SS-0.0-0.5 Soil	6353216

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-211-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6353211
LLI Group # 1257838
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1616 SDG#: DX116-16BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-211-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6353211
LLI Group # 1257838
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1616 SDG#: DX116-16BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.248	J	0.0257	0.966	1
11031	12378-PeCDD	40321-76-4	1.63	JB	0.0640	4.83	1
11031	123478-HxCDD	39227-28-6	3.80	JB	0.0613	4.83	1
11031	123678-HxCDD	57653-85-7	11.3	B	0.0622	4.83	1
11031	123789-HxCDD	19408-74-3	7.05	B	0.0584	4.83	1
11031	1234678-HpCDD	35822-46-9	351	B	0.134	4.83	1
11031	OCDD	3268-87-9	5,120	EB	0.0780	9.66	1
11650	2378-TCDF-Conf	51207-31-9	1.79	BC	0.0492	0.966	1
11031	12378-PeCDF	57117-41-6	1.49	JB	0.0534	4.83	1
11031	23478-PeCDF	57117-31-4	2.02	JB	0.0489	4.83	1
11031	123478-HxCDF	70648-26-9	3.83	JB	0.0692	4.83	1
11031	123678-HxCDF	57117-44-9	2.16	JB	0.0657	4.83	1
11031	123789-HxCDF	72918-21-9	0.993	JB	0.0660	4.83	1
11031	234678-HxCDF	60851-34-5	2.90	JB	0.0585	4.83	1
11031	1234678-HpCDF	67562-39-4	67.4	B	0.0527	4.83	1
11031	1234789-HpCDF	55673-89-7	4.58	JB	0.0595	4.83	1
11031	OCDF	39001-02-0	273	B	0.0346	9.66	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-2378-TCDF-Conf	66	24 - 169
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	92	17 - 157
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	83	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-211-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6353211
LLI Group # 1257838
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1616 SDG#: DX116-16BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-211-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6353211
LLI Group # 1257838
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1616 SDG#: DX116-16BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11214002	08/06/2011 14:36	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11214002	08/09/2011 08:11	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11214002	08/02/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401B	07/25/2011 20:28	Scott W Freisher	1

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Analysis Report

Sample Description: SL-211-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6353212
LLI Group # 1257838
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1616 SDG#: DX116-16MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-211-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6353212
LLI Group # 1257838
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1616 SDG#: DX116-16MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	17.8		0.0307	0.974	1
11031	12378-PeCDD	40321-76-4	95.9	B	0.0701	4.87	1
11031	123478-HxCDD	39227-28-6	97.1	B	0.0850	4.87	1
11031	123678-HxCDD	57653-85-7	104	B	0.0878	4.87	1
11031	123789-HxCDD	19408-74-3	99.1	B	0.0806	4.87	1
11031	1234678-HpCDD	35822-46-9	425	B	0.138	4.87	1
11031	OCDD	3268-87-9	4,250	EB	0.0798	9.74	1
11031	2378-TCDF	51207-31-9	21.2	B	0.113	0.974	1
11031	12378-PeCDF	57117-41-6	100	B	0.0723	4.87	1
11031	23478-PeCDF	57117-31-4	95.4	B	0.0660	4.87	1
11031	123478-HxCDF	70648-26-9	98.1	B	0.0833	4.87	1
11031	123678-HxCDF	57117-44-9	95.9	B	0.0790	4.87	1
11031	123789-HxCDF	72918-21-9	93.8	B	0.0764	4.87	1
11031	234678-HxCDF	60851-34-5	96.7	B	0.0720	4.87	1
11031	1234678-HpCDF	67562-39-4	162	B	0.0651	4.87	1
11031	1234789-HpCDF	55673-89-7	96.8	B	0.0711	4.87	1
11031	OCDF	39001-02-0	477	B	0.0306	9.74	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	83	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-211-SA6-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6353212
LLI Group # 1257838
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1616 SDG#: DX116-16MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-211-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6353212
LLI Group # 1257838
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1616 SDG#: DX116-16MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11214002	08/06/2011 15:33	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11214002	08/02/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401B	07/25/2011 20:28	Scott W Freisher	1

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Analysis Report

Sample Description: SL-211-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6353213
LLI Group # 1257838
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1616 SDG#: DX116-16MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-211-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6353213
LLI Group # 1257838
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1616 SDG#: DX116-16MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	18.7		0.0291	1.01	1
11031	12378-PeCDD	40321-76-4	101	B	0.0684	5.06	1
11031	123478-HxCDD	39227-28-6	105	B	0.0787	5.06	1
11031	123678-HxCDD	57653-85-7	111	B	0.0802	5.06	1
11031	123789-HxCDD	19408-74-3	103	B	0.0707	5.06	1
11031	1234678-HpCDD	35822-46-9	504	B	0.146	5.06	1
11031	OCDD	3268-87-9	5,010	EB	0.0848	10.1	1
11031	2378-TCDF	51207-31-9	22.2	B	0.0965	1.01	1
11031	12378-PeCDF	57117-41-6	98.1	B	0.0563	5.06	1
11031	23478-PeCDF	57117-31-4	100	B	0.0566	5.06	1
11031	123478-HxCDF	70648-26-9	100	B	0.107	5.06	1
11031	123678-HxCDF	57117-44-9	97.6	B	0.0981	5.06	1
11031	123789-HxCDF	72918-21-9	98.0	B	0.0633	5.06	1
11031	234678-HxCDF	60851-34-5	102	B	0.0576	5.06	1
11031	1234678-HpCDF	67562-39-4	197	B	0.0809	5.06	1
11031	1234789-HpCDF	55673-89-7	105	B	0.0755	5.06	1
11031	OCDF	39001-02-0	568	B	0.0410	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	92	25 - 164
13C12-12378-PeCDD	99	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	95	28 - 130
13C12-1234678-HpCDD	95	23 - 140
13C12-OCDD	104	17 - 157
13C12-2378-TCDF	92	24 - 169
13C12-12378-PeCDF	108	24 - 185
13C12-23478-PeCDF	98	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	94	28 - 136
13C12-123789-HxCDF	96	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	85	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-211-SA6-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6353213
LLI Group # 1257838
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1616 SDG#: DX116-16MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-211-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA6-SS-0.0-0.5

LLI Sample # SW 6353213
LLI Group # 1257838
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:23

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1616 SDG#: DX116-16MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11214002	08/06/2011 16:30	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11214002	08/02/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401B	07/25/2011 20:28	Scott W Freisher	1

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Analysis Report

Sample Description: SL-214-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-214-SA6-SS-0.0-0.5

LLI Sample # SW 6353214
LLI Group # 1257838
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:07

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1617 SDG#: DX116-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-214-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-214-SA6-SS-0.0-0.5

LLI Sample # SW 6353214
LLI Group # 1257838
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:07

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1617 SDG#: DX116-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	1.08	0.0422	0.982	1
11031	12378-PeCDD	40321-76-4	10.9 B	0.0777	4.91	1
11031	123478-HxCDD	39227-28-6	26.6 B	0.111	4.91	1
11031	123678-HxCDD	57653-85-7	104 B	0.116	4.91	1
11031	123789-HxCDD	19408-74-3	51.7 B	0.0994	4.91	1
11031	1234678-HpCDD	35822-46-9	4,390 EB	0.294	4.91	1
11031	OCDD	3268-87-9	76,100 EB	0.209	9.82	1
11650	2378-TCDF-Conf	51207-31-9	10.3 BC	0.0686	0.982	1
11031	12378-PeCDF	57117-41-6	7.06 B	0.0876	4.91	1
11031	23478-PeCDF	57117-31-4	13.4 B	0.0849	4.91	1
11031	123478-HxCDF	70648-26-9	22.8 B	0.253	4.91	1
11031	123678-HxCDF	57117-44-9	14.9 B	0.269	4.91	1
11031	123789-HxCDF	72918-21-9	0.0979 U	0.0979	4.91	1
11031	234678-HxCDF	60851-34-5	18.4 B	0.0863	4.91	1
11031	1234678-HpCDF	67562-39-4	908 B	0.287	4.91	1
11031	1234789-HpCDF	55673-89-7	36.8 B	0.132	4.91	1
11031	OCDF	39001-02-0	4,680 EB	0.0584	9.82	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-2378-TCDF-Conf	78	24 - 169
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	109	17 - 157
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	32	26 - 152
13C12-123678-HxCDF	30	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	91	29 - 147

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-214-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-214-SA6-SS-0.0-0.5

LLI Sample # SW 6353214
LLI Group # 1257838
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:07

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1617 SDG#: DX116-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-1234678-HpCDF	35	28 - 143
13C12-1234789-HpCDF	85	26 - 138
13C12-OCDF	95	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-214-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-214-SA6-SS-0.0-0.5

LLI Sample # SW 6353214
LLI Group # 1257838
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:07

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1617 SDG#: DX116-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11214002	08/06/2011 17:26	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11214002	08/09/2011 12:47	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11214002	08/02/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401B	07/25/2011 20:28	Scott W Freisher	1

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Analysis Report

Sample Description: SL-216-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-216-SA6-SS-0.0-0.5

LLI Sample # SW 6353215
LLI Group # 1257838
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:49

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1618 SDG#: DX116-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.89	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-216-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-216-SA6-SS-0.0-0.5

LLI Sample # SW 6353215
LLI Group # 1257838
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:49

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1618 SDG#: DX116-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.474 JB	0.0215	1.01	1
11031	12378-PeCDD	40321-76-4	4.60 JB	0.0411	5.04	1
11031	123478-HxCDD	39227-28-6	13.4 B	0.0630	5.04	1
11031	123678-HxCDD	57653-85-7	27.9 B	0.0664	5.04	1
11031	123789-HxCDD	19408-74-3	26.2 B	0.0645	5.04	1
11031	1234678-HpCDD	35822-46-9	1,230 B	0.191	5.04	1
11031	OCDD	3268-87-9	21,100 EB	0.109	10.1	1
11650	2378-TCDF-Conf	51207-31-9	1.86 BC	0.125	1.01	1
11031	12378-PeCDF	57117-41-6	2.88 JB	0.0304	5.04	1
11031	23478-PeCDF	57117-31-4	3.35 JB	0.0303	5.04	1
11031	123478-HxCDF	70648-26-9	11.9 B	0.0437	5.04	1
11031	123678-HxCDF	57117-44-9	9.10 B	0.0385	5.04	1
11031	123789-HxCDF	72918-21-9	1.58 JB	0.0462	5.04	1
11031	234678-HxCDF	60851-34-5	13.0 B	0.0398	5.04	1
11031	1234678-HpCDF	67562-39-4	362 B	0.0596	5.04	1
11031	1234789-HpCDF	55673-89-7	38.1 B	0.0943	5.04	1
11031	OCDF	39001-02-0	1,840 B	0.0499	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-2378-TCDF-Conf	71	24 - 169
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	103	17 - 157
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	76	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: SL-216-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-216-SA6-SS-0.0-0.5

LLI Sample # SW 6353215
LLI Group # 1257838
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:49

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1618 SDG#: DX116-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	77	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-216-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-216-SA6-SS-0.0-0.5

LLI Sample # SW 6353215
LLI Group # 1257838
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:49

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1618 SDG#: DX116-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11222002	08/11/2011 20:59	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11222002	08/12/2011 22:17	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11222002	08/10/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401B	07/25/2011 20:28	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-219-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-219-SA6-SS-0.0-0.5

LLI Sample # SW 6353216
LLI Group # 1257838
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:25

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1619 SDG#: DX116-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-219-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-219-SA6-SS-0.0-0.5

LLI Sample # SW 6353216
LLI Group # 1257838
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:25

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1619 SDG#: DX116-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0721	J	0.0172	0.999	1
11031	12378-PeCDD	40321-76-4	0.451	JB	0.0346	5.00	1
11031	123478-HxCDD	39227-28-6	1.08	JB	0.0371	5.00	1
11031	123678-HxCDD	57653-85-7	2.52	JB	0.0376	5.00	1
11031	123789-HxCDD	19408-74-3	1.85	JB	0.0339	5.00	1
11031	1234678-HpCDD	35822-46-9	88.2	B	0.0758	5.00	1
11031	OCDD	3268-87-9	1,050	B	0.0424	9.99	1
11650	2378-TCDF-Conf	51207-31-9	0.866	JBC	0.0304	0.999	1
11031	12378-PeCDF	57117-41-6	0.342	JB	0.0245	5.00	1
11031	23478-PeCDF	57117-31-4	0.704	JB	0.0242	5.00	1
11031	123478-HxCDF	70648-26-9	1.13	JB	0.0795	5.00	1
11031	123678-HxCDF	57117-44-9	0.806	JB	0.0904	5.00	1
11031	123789-HxCDF	72918-21-9	0.383	JB	0.0343	5.00	1
11031	234678-HxCDF	60851-34-5	0.890	JB	0.0306	5.00	1
11031	1234678-HpCDF	67562-39-4	19.6	B	0.0648	5.00	1
11031	1234789-HpCDF	55673-89-7	1.61	JB	0.0416	5.00	1
11031	OCDF	39001-02-0	82.4	B	0.0249	9.99	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-2378-TCDF-Conf	65	24 - 169
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	85	17 - 157
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	33	26 - 152
13C12-123678-HxCDF	28	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	43	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	74	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-219-SA6-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-219-SA6-SS-0.0-0.5

LLI Sample # SW 6353216
LLI Group # 1257838
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:25

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1619 SDG#: DX116-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-219-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-219-SA6-SS-0.0-0.5

LLI Sample # SW 6353216
LLI Group # 1257838
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 09:25

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1619 SDG#: DX116-19*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11214002	08/07/2011 00:16	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11214002	08/09/2011 13:53	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11214002	08/02/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11206162401B	07/25/2011 20:28	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257838
Reported: 08/17/11 at 12:24 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11206162401B	Sample number(s): 6353211-6353216								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11214002	Sample number(s): 6353211-6353214,6353216								
2378-TCDD	0.0228 U	0.0228	1.00	ng/kg	93		67-158		
12378-PeCDD	0.0337 J	0.0262	5.00	ng/kg	97		70-142		
123478-HxCDD	0.0896 J	0.0244	5.00	ng/kg	97		70-164		
123678-HxCDD	0.0673 J	0.0253	5.00	ng/kg	95		76-134		
123789-HxCDD	0.0880 J	0.0225	5.00	ng/kg	93		64-162		
1234678-HpCDD	1.14 J	0.0268	5.00	ng/kg	94		70-140		
OCDD	7.54 J	0.0218	10.0	ng/kg	98		78-144		
2378-TCDF	0.0364 J	0.0249	1.00	ng/kg	100		75-158		
2378-TCDF-Conf	0.0381 J	0.0301	1.00	ng/kg	100		75-158		
12378-PeCDF	0.0262 J	0.0150	5.00	ng/kg	94		80-134		
23478-PeCDF	0.0827 J	0.0154	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0447 J	0.0377	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0467 J	0.0380	5.00	ng/kg	95		84-130		
123789-HxCDF	0.0283 J	0.0129	5.00	ng/kg	98		78-130		
234678-HxCDF	0.0193 J	0.0120	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.0913 J	0.0173	5.00	ng/kg	96		82-122		
1234789-HpCDF	0.0388 J	0.0112	5.00	ng/kg	96		78-138		
OCDF	0.147 J	0.0288	10.0	ng/kg	95		63-170		
Batch number: 11222002	Sample number(s): 6353215								
2378-TCDD	0.0120 J	0.0109	1.00	ng/kg	91		67-158		
12378-PeCDD	0.0211 J	0.00990	5.00	ng/kg	96		70-142		
123478-HxCDD	0.0201 J	0.00880	5.00	ng/kg	99		70-164		
123678-HxCDD	0.0380 J	0.00900	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0395 J	0.00820	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.288 J	0.0108	5.00	ng/kg	100		70-140		
OCDD	0.582 J	0.00970	10.0	ng/kg	101		78-144		
2378-TCDF-Conf	0.0580 U	0.0580	1.00	ng/kg	102		75-158		
12378-PeCDF	0.0321 J	0.00550	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0487 J	0.00530	5.00	ng/kg	100		68-160		
123478-HxCDF	0.0276 J	0.00670	5.00	ng/kg	106		72-134		
123678-HxCDF	0.0102 J	0.00590	5.00	ng/kg	105		84-130		
123789-HxCDF	0.0235 J	0.00630	5.00	ng/kg	106		78-130		
234678-HxCDF	0.0245 J	0.00580	5.00	ng/kg	106		70-156		
1234678-HpCDF	0.0535 J	0.00610	5.00	ng/kg	102		82-122		
1234789-HpCDF	0.0287 J	0.00940	5.00	ng/kg	105		78-138		
OCDF	0.102 J	0.0135	10.0	ng/kg	107		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257838
Reported: 08/17/11 at 12:24 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11206162401B	Sample number(s): 6353211-6353216					BKG: P352971			
Moisture Content by 160.3						1.1	1.1	2 (1)	20
Batch number: 11214002	Sample number(s): 6353211-6353214,6353216 UNSPK: 6353211								
2378-TCDD	90	91	67-158	5	25				
12378-PeCDD	97	98	70-142	5	25				
123478-HxCDD	96	100	70-164	8	25				
123678-HxCDD	95	99	76-134	7	25				
123789-HxCDD	95	95	64-162	4	25				
1234678-HpCDD	76	151*	70-140	17	25				
OCDD	-445 (2)	-51 (2)	78-144	16	25				
2378-TCDF	99	100	75-158	5	25				
2378-TCDF-Conf	99	100	75-158	5	25				
12378-PeCDF	101	96	80-134	2	25				
23478-PeCDF	96	97	68-160	5	25				
123478-HxCDF	97	96	72-134	2	25				
123678-HxCDF	96	94	84-130	2	25				
123789-HxCDF	95	96	78-130	4	25				
234678-HxCDF	96	98	70-156	6	25				
1234678-HpCDF	98	128*	82-122	19	25				
1234789-HpCDF	95	99	78-138	8	25				
OCDF	105	146	63-170	17	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11214002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6353211	71	79	72	75	81	81
6353212	75	81	73	75	83	85
6353213	92	98	53	56	94	96
6353214	83	87	32	30	89	91
6353216	72	79	33	28	81	76
Blank	78	83	28	28	84	83
MS	75	81	73	75	83	85
MSD	92	98	53	56	94	96
OPR	72	78	47	57	79	70
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257838
Reported: 08/17/11 at 12:24 PM

Surrogate Quality Control

6353211	83	79	83	80	79	79
6353212	77	80	83	77	80	77
6353213	71	83	85	99	87	88
6353214	35	85	95	84	80	77
6353216	43	76	74	81	76	75
Blank	43	75	73	84	77	76
MS	77	80	83	77	80	77
MSD	71	83	85	99	87	88
OPR	81	66	64	81	82	81
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6353211	82	85	92		81	66
6353212	79	81	88	77	81	
6353213	95	95	104	92	108	
6353214	86	91	109		91	78
6353216	83	83	85		83	65
Blank	86	91	95	78	90	72
MS	79	81	88	77	81	77
MSD	95	95	104	92	108	92
OPR	85	87	92	69	88	69
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11222002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6353215	76	68	69	76	76	77
Blank	70	62	61	69	67	73
OPR	73	67	64	74	73	74
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6353215	94	72	77	77	78	79
Blank	86	67	64	71	74	72
OPR	97	69	64	78	80	77
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6353215	81	89	103		74	71
Blank	76	80	78	57	65	62
OPR	82	88	87	60	72	60
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 / 1257338 / G353211-16

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (subface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH (EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-211-SA6-SS-0.0-0.5MS	7/21/11	1023	SOIL	NONE	2-SS Sleeve			X	X																	MS/MSD
SL-211-SA6-SS-0.0-0.5MS	7/21/11	1023	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X	X	X	X										MS/MSD
SL-214-SA6-SS-0.0-0.5	7/21/11	0907	SOIL	NONE	1-SS Sleeve			X	X																	
SL-214-SA6-SS-0.0-0.5	7/21/11	0907	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
SL-216-SA6-SS-0.0-0.5	7/21/11	0949	SOIL	NONE	1-SS Sleeve			X	X																	
SL-216-SA6-SS-0.0-0.5	7/21/11	0949	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-219-SA6-SS-0.0-0.5	7/21/11	0925	SOIL	NONE	1-SS Sleeve			X	X																	
SL-219-SA6-SS-0.0-0.5	7/21/11	0925	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X	X	X	X	X						X	X	X	
SL-228-SA6-SS-0.0-0.5MS	7/21/11	1239	SOIL	NONE	2-SS Sleeve			X	X																	MS/MSD
SL-228-SA6-SS-0.0-0.5MS	7/21/11	1239	SOIL	NONE	4-16 oz.jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	MS/MSD
SL-237-SA6-SS-0.0-0.5	7/21/11	1400	SOIL	NONE	1-SS Sleeve			X	X																	
SL-237-SA6-SS-0.0-0.5	7/21/11	1400	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
SL-240-SA6-SS-0.0-0.5	7/21/11	1501	SOIL	NONE	1-SS Sleeve			X	X																	
SL-240-SA6-SS-0.0-0.5	7/21/11	1501	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-314-SA6-SS-0.0-0.5	7/21/11	1314	SOIL	NONE	1-SS Sleeve			X	X																	
SL-314-SA6-SS-0.0-0.5	7/21/11	1314	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X	X	X	X										
SL-315-SA6-SS-0.0-0.5	7/21/11	1337	SOIL	NONE	1-SS Sleeve			X	X																	
SL-315-SA6-SS-0.0-0.5	7/21/11	1337	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-316-SA6-SS-0.0-0.5	7/21/11	1420	SOIL	NONE	1-SS Sleeve			X	X																	
SL-316-SA6-SS-0.0-0.5	7/21/11	1420	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X	X	X	X										
SL-318-SA6-SS-0.0-0.5	7/21/11	1441	SOIL	NONE	1-SS Sleeve			X	X																	
SL-318-SA6-SS-0.0-0.5	7/21/11	1441	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
DUP06-SA6-QC-072111	7/21/11	1249	SOIL	NONE	1-SS Sleeve			X	X																	
DUP06-SA6-QC-072111	7/21/11	1249	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
DUP05-SA6-QC-072111	7/21/11	1040	SOIL	NONE	1-SS Sleeve			X	X																	
DUP05-SA6-QC-072111	7/21/11	1040	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	07/21/2011 / 1500		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
	7/22/11 1010	8754 3340 9674,9685, 9663	

13013
~~12E~~ / 1257838 / 6353211-16
Chan 7/22/11

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-073-SA6-SB-4.5	7/21/11	0955	SOIL	NONE	5-Encores										X	X	X										
SL-073-SA6-SB-4.0-5.0	7/21/11	1000	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-081-SA6-SB-4.5	7/21/11	1505	SOIL	NONE	5-Encores										X	X	X										
SL-081-SA6-SB-4.0-5.0	7/21/11	1510	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-081-SA6-SB-9.5	7/21/11	1515	SOIL	NONE	1-Encore												X										
SL-081-SA6-SB-9.0-10.0	7/21/11	1520	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-104-SA6-SB-3.0	7/21/11	1435	SOIL	NONE	5-Encores										X	X	X										
SL-104-SA6-SB-2.5-3.5	7/21/11	1440	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-105-SA6-SB-3.0	7/21/11	1055	SOIL	NONE	5-Encore										X	X	X										
SL-105-SA6-SB-2.5-3.5	7/21/11	1059	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
TB-072111	7/21/11	0800	SOIL	NONE	4-40mL Vials										X	X	X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	07/21/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	7/22/11 / 1010	8754 3340 9674,9685, 9663	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 17, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/22/2011
Group Number: 1257839
SDG: DX117
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-228-SA6-SS-0.0-0.5 Soil	6353217
SL-228-SA6-SS-0.0-0.5MS Soil	6353218
SL-228-SA6-SS-0.0-0.5MSD Soil	6353219
SL-237-SA6-SS-0.0-0.5 Soil	6353220
SL-240-SA6-SS-0.0-0.5 Soil	6353221
SL-314-SA6-SS-0.0-0.5 Soil	6353222
SL-315-SA6-SS-0.0-0.5 Soil	6353223
SL-316-SA6-SS-0.0-0.5 Soil	6353224
SL-318-SA6-SS-0.0-0.5 Soil	6353225
DUP06-SA6-QC-072111 Soil	6353226
DUP05-SA6-QC-072111 Soil	6353227
SL-073-SA6-SB-4.0-5.0 Soil	6353228
SL-081-SA6-SB-4.0-5.0 Soil	6353229
SL-081-SA6-SB-9.0-10.0 Soil	6353230
SL-104-SA6-SB-2.5-3.5 Soil	6353231
SL-105-SA6-SB-2.5-3.5 Soil	6353232

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC	CDM Federal Services Program	Attn: Todd Burgesser
COPY TO		
ELECTRONIC	Data Package Group	

Lancaster Laboratories

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Analysis Report

COPY TO

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-228-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353217
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1701 SDG#: DX117-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-228-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353217
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1701 SDG#: DX117-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.611	J	0.0493	0.973	1
11031	12378-PeCDD	40321-76-4	2.23	JB	0.0945	4.86	1
11031	123478-HxCDD	39227-28-6	7.93	B	0.0833	4.86	1
11031	123678-HxCDD	57653-85-7	23.8	B	0.0817	4.86	1
11031	123789-HxCDD	19408-74-3	10.2	B	0.0798	4.86	1
11031	1234678-HpCDD	35822-46-9	600	B	0.220	4.86	1
11031	OCDD	3268-87-9	5,810	EB	0.187	9.73	1
11031	2378-TCDF	51207-31-9	1.98	BC	0.136	0.973	1
11031	12378-PeCDF	57117-41-6	5.43	B	0.0668	4.86	1
11031	23478-PeCDF	57117-31-4	2.47	JB	0.0628	4.86	1
11031	123478-HxCDF	70648-26-9	4.43	JB	0.0822	4.86	1
11031	123678-HxCDF	57117-44-9	3.35	J	0.0754	4.86	1
11031	123789-HxCDF	72918-21-9	0.898	JB	0.0794	4.86	1
11031	234678-HxCDF	60851-34-5	5.61	B	0.0766	4.86	1
11031	1234678-HpCDF	67562-39-4	115	B	0.0832	4.86	1
11031	1234789-HpCDF	55673-89-7	10.7	B	0.128	4.86	1
11031	OCDF	39001-02-0	355	B	0.0852	9.73	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	67	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-228-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353217
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1701 SDG#: DX117-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-228-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353217
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1701 SDG#: DX117-01BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11215001	08/06/2011 19:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11215001	08/03/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

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Analysis Report

Sample Description: SL-228-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353218
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1701 SDG#: DX117-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-228-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353218
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1701 SDG#: DX117-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	18.5		0.0528	0.977	1
11031	12378-PeCDD	40321-76-4	97.0	B	0.0980	4.89	1
11031	123478-HxCDD	39227-28-6	99.5	B	0.0963	4.89	1
11031	123678-HxCDD	57653-85-7	116	B	0.0953	4.89	1
11031	123789-HxCDD	19408-74-3	99.2	B	0.0918	4.89	1
11031	1234678-HpCDD	35822-46-9	745	B	0.218	4.89	1
11031	OCDD	3268-87-9	6,950	EB	0.204	9.77	1
11031	2378-TCDF	51207-31-9	19.0	B	0.125	0.977	1
11031	12378-PeCDF	57117-41-6	94.3	B	0.0636	4.89	1
11031	23478-PeCDF	57117-31-4	89.7	B	0.0631	4.89	1
11031	123478-HxCDF	70648-26-9	90.3	B	0.0973	4.89	1
11031	123678-HxCDF	57117-44-9	89.5		0.0888	4.89	1
11031	123789-HxCDF	72918-21-9	88.9	B	0.0984	4.89	1
11031	234678-HxCDF	60851-34-5	93.0	B	0.0909	4.89	1
11031	1234678-HpCDF	67562-39-4	220	B	0.0838	4.89	1
11031	1234789-HpCDF	55673-89-7	99.0	B	0.122	4.89	1
11031	OCDF	39001-02-0	588	B	0.0834	9.77	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	71	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-228-SA6-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353218
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1701 SDG#: DX117-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-228-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353218
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1701 SDG#: DX117-01MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11215001	08/06/2011 20:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11215001	08/03/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-228-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353219
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1701 SDG#: DX117-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-228-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353219
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1701 SDG#: DX117-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	19.1		0.0567	1.00	1
11031	12378-PeCDD	40321-76-4	101	B	0.0991	5.01	1
11031	123478-HxCDD	39227-28-6	101	B	0.0998	5.01	1
11031	123678-HxCDD	57653-85-7	118	B	0.101	5.01	1
11031	123789-HxCDD	19408-74-3	103	B	0.0977	5.01	1
11031	1234678-HpCDD	35822-46-9	703	B	0.241	5.01	1
11031	OCDD	3268-87-9	6,090	EB	0.183	10.0	1
11031	2378-TCDF	51207-31-9	20.5	B	0.139	1.00	1
11031	12378-PeCDF	57117-41-6	95.7	B	0.0645	5.01	1
11031	23478-PeCDF	57117-31-4	92.5	B	0.0652	5.01	1
11031	123478-HxCDF	70648-26-9	91.5	B	0.109	5.01	1
11031	123678-HxCDF	57117-44-9	91.2		0.0997	5.01	1
11031	123789-HxCDF	72918-21-9	91.5	B	0.110	5.01	1
11031	234678-HxCDF	60851-34-5	95.7	B	0.104	5.01	1
11031	1234678-HpCDF	67562-39-4	213	B	0.0814	5.01	1
11031	1234789-HpCDF	55673-89-7	103	B	0.137	5.01	1
11031	OCDF	39001-02-0	535	B	0.0771	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	65	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-228-SA6-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353219
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1701 SDG#: DX117-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-228-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA6-SS-0.0-0.5

LLI Sample # SW 6353219
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:39

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1701 SDG#: DX117-01MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11215001	08/06/2011 21:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11215001	08/03/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

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Analysis Report

Sample Description: SL-237-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-237-SA6-SS-0.0-0.5

LLI Sample # SW 6353220
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:00

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1702 SDG#: DX117-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-237-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-237-SA6-SS-0.0-0.5

LLI Sample # SW 6353220
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:00

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X1702 SDG#: DX117-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	1.20	0.0530	0.992	1
11031	12378-PeCDD	40321-76-4	13.6 B	0.121	4.96	1
11031	123478-HxCDD	39227-28-6	10.8 B	0.129	4.96	1
11031	123678-HxCDD	57653-85-7	43.4 B	0.130	4.96	1
11031	123789-HxCDD	19408-74-3	17.4 B	0.130	4.96	1
11031	1234678-HpCDD	35822-46-9	935 B	0.249	4.96	1
11031	OCDD	3268-87-9	10,300 EB	0.313	9.92	1
11650	2378-TCDF-Conf	51207-31-9	2.09 BC	0.0541	0.992	1
11031	12378-PeCDF	57117-41-6	16.3 B	0.0927	4.96	1
11031	23478-PeCDF	57117-31-4	3.57 JB	0.0862	4.96	1
11031	123478-HxCDF	70648-26-9	8.10 B	0.0925	4.96	1
11031	123678-HxCDF	57117-44-9	7.05	0.0829	4.96	1
11031	123789-HxCDF	72918-21-9	1.59 JB	0.0935	4.96	1
11031	234678-HxCDF	60851-34-5	11.4 B	0.0864	4.96	1
11031	1234678-HpCDF	67562-39-4	181 B	0.0910	4.96	1
11031	1234789-HpCDF	55673-89-7	18.2 B	0.147	4.96	1
11031	OCDF	39001-02-0	457 B	0.0802	9.92	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-2378-TCDF-Conf	77	24 - 169
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	82	17 - 157
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	83	28 - 143

*=This limit was used in the evaluation of the final result

Sample Description: SL-237-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-237-SA6-SS-0.0-0.5

LLI Sample # SW 6353220
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:00

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

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Suite 210
Chantilly VA 20151

X1702 SDG#: DX117-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-237-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-237-SA6-SS-0.0-0.5

LLI Sample # SW 6353220
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:00

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1702 SDG#: DX117-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11215001	08/06/2011 22:08	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11215001	08/08/2011 16:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11215001	08/03/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401A	07/28/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-240-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA6-SS-0.0-0.5

LLI Sample # SW 6353221
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:01

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1703 SDG#: DX117-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-240-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA6-SS-0.0-0.5

LLI Sample # SW 6353221
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:01

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1703 SDG#: DX117-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0510	JQ	0.0376	1.00	1
11031	12378-PeCDD	40321-76-4	0.254	JB	0.0423	5.01	1
11031	123478-HxCDD	39227-28-6	0.342	JB	0.0456	5.01	1
11031	123678-HxCDD	57653-85-7	0.798	JB	0.0468	5.01	1
11031	123789-HxCDD	19408-74-3	0.676	JB	0.0467	5.01	1
11031	1234678-HpCDD	35822-46-9	17.2	B	0.0717	5.01	1
11031	OCDD	3268-87-9	181	B	0.0628	10.0	1
11031	2378-TCDF	51207-31-9	0.316	JBQ	0.0613	1.00	1
11031	12378-PeCDF	57117-41-6	0.757	JB	0.0360	5.01	1
11031	23478-PeCDF	57117-31-4	0.561	JB	0.0346	5.01	1
11031	123478-HxCDF	70648-26-9	0.519	JBQ	0.0406	5.01	1
11031	123678-HxCDF	57117-44-9	0.288	J	0.0356	5.01	1
11031	123789-HxCDF	72918-21-9	0.206	JB	0.0435	5.01	1
11031	234678-HxCDF	60851-34-5	0.363	JB	0.0392	5.01	1
11031	1234678-HpCDF	67562-39-4	3.23	JB	0.0329	5.01	1
11031	1234789-HpCDF	55673-89-7	0.259	JBQ	0.0527	5.01	1
11031	OCDF	39001-02-0	8.95	JB	0.0501	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-240-SA6-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA6-SS-0.0-0.5

LLI Sample # SW 6353221
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:01

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1703 SDG#: DX117-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-240-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA6-SS-0.0-0.5

LLI Sample # SW 6353221
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:01

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1703 SDG#: DX117-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11215001	08/06/2011 23:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11215001	08/03/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-314-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-314-SA6-SS-0.0-0.5

LLI Sample # SW 6353222
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 13:14

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1704 SDG#: DX117-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-314-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-314-SA6-SS-0.0-0.5

LLI Sample # SW 6353222
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 13:14

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1704 SDG#: DX117-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	59.5	B	0.699	8.51	1
11031	12378-PeCDD	40321-76-4	256	B	0.670	42.5	1
11031	123478-HxCDD	39227-28-6	414	B	0.854	42.5	1
11031	123678-HxCDD	57653-85-7	1,250	B	0.893	42.5	1
11031	123789-HxCDD	19408-74-3	769	B	0.814	42.5	1
11031	1234678-HpCDD	35822-46-9	25,500 EB		3.04	42.5	1
11031	OCDD	3268-87-9	280,000 EB		2.06	85.1	1
11650	2378-TCDF-Conf	51207-31-9	14.4	BC	0.788	8.51	1
11031	12378-PeCDF	57117-41-6	26.3	JB	0.196	42.5	1
11031	23478-PeCDF	57117-31-4	40.7	JB	0.228	42.5	1
11031	123478-HxCDF	70648-26-9	146	B	0.668	42.5	1
11031	123678-HxCDF	57117-44-9	162	B	0.606	42.5	1
11031	123789-HxCDF	72918-21-9	36.0	JB	1.15	42.5	1
11031	234678-HxCDF	60851-34-5	273	B	0.630	42.5	1
11031	1234678-HpCDF	67562-39-4	3,260	B	0.645	42.5	1
11031	1234789-HpCDF	55673-89-7	426	B	1.31	42.5	1
11031	OCDF	39001-02-0	7,800	B	0.581	85.1	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-2378-TCDF-Conf	74	24 - 169
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	70	17 - 157
13C12-12378-PeCDF	106	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	51	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	54	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-314-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-314-SA6-SS-0.0-0.5

LLI Sample # SW 6353222
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 13:14

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1704 SDG#: DX117-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-314-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-314-SA6-SS-0.0-0.5

LLI Sample # SW 6353222
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 13:14

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1704 SDG#: DX117-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11222002	08/11/2011 21:56	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11222002	08/12/2011 23:23	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11222002	08/10/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401A	07/28/2011 20:37	Scott W Freisher	1

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Analysis Report

Sample Description: SL-315-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-315-SA6-SS-0.0-0.5

LLI Sample # SW 6353223
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 13:37

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1705 SDG#: DX117-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-315-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-315-SA6-SS-0.0-0.5

LLI Sample # SW 6353223
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 13:37

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
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Chantilly VA 20151

X1705 SDG#: DX117-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	24.7	B	0.311	8.56	1
11031	12378-PeCDD	40321-76-4	448	B	0.538	42.8	1
11031	123478-HxCDD	39227-28-6	229	B	1.44	42.8	1
11031	123678-HxCDD	57653-85-7	1,060	B	1.43	42.8	1
11031	123789-HxCDD	19408-74-3	327	B	1.22	42.8	1
11031	1234678-HpCDD	35822-46-9	21,100 EB		2.61	42.8	1
11031	OCDD	3268-87-9	289,000 EB		1.98	85.6	1
11650	2378-TCDF-Conf	51207-31-9	7.60	JBC	0.833	8.56	1
11031	12378-PeCDF	57117-41-6	25.6	JB	0.264	42.8	1
11031	23478-PeCDF	57117-31-4	34.4	JB	0.294	42.8	1
11031	123478-HxCDF	70648-26-9	193	B	0.907	42.8	1
11031	123678-HxCDF	57117-44-9	209	B	0.778	42.8	1
11031	123789-HxCDF	72918-21-9	36.7	JB	0.933	42.8	1
11031	234678-HxCDF	60851-34-5	336	B	0.781	42.8	1
11031	1234678-HpCDF	67562-39-4	4,420	B	0.623	42.8	1
11031	1234789-HpCDF	55673-89-7	588	B	1.39	42.8	1
11031	OCDF	39001-02-0	10,800	B	0.691	85.6	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-2378-TCDF-Conf	71	24 - 169
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	84	17 - 157
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	105	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

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Analysis Report

Sample Description: SL-315-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-315-SA6-SS-0.0-0.5

LLI Sample # SW 6353223
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 13:37

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1705 SDG#: DX117-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-315-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-315-SA6-SS-0.0-0.5

LLI Sample # SW 6353223
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 13:37

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X1705 SDG#: DX117-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11222002	08/11/2011 22:53	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11222002	08/13/2011 00:29	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11222002	08/10/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

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Analysis Report

Sample Description: SL-316-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-316-SA6-SS-0.0-0.5

LLI Sample # SW 6353224
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:20

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X1706 SDG#: DX117-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.80	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-316-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-316-SA6-SS-0.0-0.5

LLI Sample # SW 6353224
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:20

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X1706 SDG#: DX117-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	8.30 JB	0.254	9.25	1
11031	12378-PeCDD	40321-76-4	120 B	0.529	46.2	1
11031	123478-HxCDD	39227-28-6	84.7 B	0.757	46.2	1
11031	123678-HxCDD	57653-85-7	271 B	0.832	46.2	1
11031	123789-HxCDD	19408-74-3	114 B	0.802	46.2	1
11031	1234678-HpCDD	35822-46-9	6,310 B	1.99	46.2	1
11031	OCDD	3268-87-9	74,300 EB	1.35	92.5	1
11650	2378-TCDF-Conf	51207-31-9	2.23 JBC	0.677	9.25	1
11031	12378-PeCDF	57117-41-6	12.6 JB	0.279	46.2	1
11031	23478-PeCDF	57117-31-4	11.3 JB	0.286	46.2	1
11031	123478-HxCDF	70648-26-9	51.5 B	0.605	46.2	1
11031	123678-HxCDF	57117-44-9	59.3 B	0.510	46.2	1
11031	123789-HxCDF	72918-21-9	0.689 U	0.689	46.2	1
11031	234678-HxCDF	60851-34-5	90.6 B	0.550	46.2	1
11031	1234678-HpCDF	67562-39-4	1,160 B	0.376	46.2	1
11031	1234789-HpCDF	55673-89-7	159 B	0.757	46.2	1
11031	OCDF	39001-02-0	2,960 B	0.561	92.5	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-2378-TCDF-Conf	72	24 - 169
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	70	26 - 152

*=This limit was used in the evaluation of the final result

Sample Description: SL-316-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-316-SA6-SS-0.0-0.5

LLI Sample # SW 6353224
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:20

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1706 SDG#: DX117-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Labeled Compounds		%Rec	Windows			
13C12-123678-HxCDF		82	26 - 123			
13C12-234678-HxCDF		76	28 - 136			
13C12-123789-HxCDF		71	29 - 147			
13C12-1234678-HpCDF		105	28 - 143			
13C12-1234789-HpCDF		66	26 - 138			
13C12-OCDF		47	17 - 157			

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-316-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-316-SA6-SS-0.0-0.5

LLI Sample # SW 6353224
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:20

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1706 SDG#: DX117-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11222002	08/11/2011 23:49	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11222002	08/13/2011 05:05	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11222002	08/10/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401A	07/28/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-318-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-318-SA6-SS-0.0-0.5

LLI Sample # SW 6353225
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:41

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1707 SDG#: DX117-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-318-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-318-SA6-SS-0.0-0.5

LLI Sample # SW 6353225
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:41

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1707 SDG#: DX117-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	4.23	0.0678	1.00	1
11031	12378-PeCDD	40321-76-4	49.4 B	0.146	5.01	1
11031	123478-HxCDD	39227-28-6	37.9 B	0.193	5.01	1
11031	123678-HxCDD	57653-85-7	116 B	0.189	5.01	1
11031	123789-HxCDD	19408-74-3	50.6 B	0.178	5.01	1
11031	1234678-HpCDD	35822-46-9	2,800 EB	0.364	5.01	1
11031	OCDD	3268-87-9	37,200 EB	0.358	10.0	1
11650	2378-TCDF-Conf	51207-31-9	1.87 BC	0.0608	1.00	1
11031	12378-PeCDF	57117-41-6	8.35 B	0.0898	5.01	1
11031	23478-PeCDF	57117-31-4	6.15 B	0.0852	5.01	1
11031	123478-HxCDF	70648-26-9	16.4 B	0.127	5.01	1
11031	123678-HxCDF	57117-44-9	15.6	0.116	5.01	1
11031	123789-HxCDF	72918-21-9	3.37 JB	0.134	5.01	1
11031	234678-HxCDF	60851-34-5	27.4 B	0.125	5.01	1
11031	1234678-HpCDF	67562-39-4	428 B	0.144	5.01	1
11031	1234789-HpCDF	55673-89-7	46.0 B	0.232	5.01	1
11031	OCDF	39001-02-0	1,100 B	0.231	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-2378-TCDF-Conf	78	24 - 169
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	77	29 - 147

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-318-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-318-SA6-SS-0.0-0.5

LLI Sample # SW 6353225
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:41

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1707 SDG#: DX117-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-318-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-318-SA6-SS-0.0-0.5

LLI Sample # SW 6353225
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:41

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1707 SDG#: DX117-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11215001	08/07/2011 05:53	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11215001	08/08/2011 17:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11215001	08/03/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401A	07/28/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP06-SA6-QC-072111 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA6-QC-072111

LLI Sample # SW 6353226
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:49

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1708 SDG#: DX117-08FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP06-SA6-QC-072111 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA6-QC-072111

LLI Sample # SW 6353226
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:49

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1708 SDG#: DX117-08FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.653	J	0.0478	1.02	1
11031	12378-PeCDD	40321-76-4	7.94	B	0.0983	5.08	1
11031	123478-HxCDD	39227-28-6	6.48	B	0.118	5.08	1
11031	123678-HxCDD	57653-85-7	22.9	B	0.118	5.08	1
11031	123789-HxCDD	19408-74-3	9.06	B	0.114	5.08	1
11031	1234678-HpCDD	35822-46-9	561	B	0.278	5.08	1
11031	OCDD	3268-87-9	5,500	EB	0.214	10.2	1
11650	2378-TCDF-Conf	51207-31-9	2.18	BC	0.0502	1.02	1
11031	12378-PeCDF	57117-41-6	4.53	JB	0.0621	5.08	1
11031	23478-PeCDF	57117-31-4	2.63	JB	0.0623	5.08	1
11031	123478-HxCDF	70648-26-9	4.88	JB	0.0840	5.08	1
11031	123678-HxCDF	57117-44-9	3.68	J	0.0733	5.08	1
11031	123789-HxCDF	72918-21-9	0.973	JB	0.0872	5.08	1
11031	234678-HxCDF	60851-34-5	6.02	B	0.0799	5.08	1
11031	1234678-HpCDF	67562-39-4	116	B	0.0906	5.08	1
11031	1234789-HpCDF	55673-89-7	11.1	B	0.166	5.08	1
11031	OCDF	39001-02-0	344	B	0.168	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-2378-TCDF-Conf	73	24 - 169
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	57	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP06-SA6-QC-072111 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA6-QC-072111

LLI Sample # SW 6353226
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:49

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1708 SDG#: DX117-08FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP06-SA6-QC-072111 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA6-QC-072111

LLI Sample # SW 6353226
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 12:49

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1708 SDG#: DX117-08FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11215001	08/07/2011 06:50	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11215001	08/08/2011 18:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11215001	08/03/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

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Analysis Report

Sample Description: DUP05-SA6-QC-072111 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA6-QC-072111

LLI Sample # SW 6353227
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:40

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1709 SDG#: DX117-09FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP05-SA6-QC-072111 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA6-QC-072111

LLI Sample # SW 6353227
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:40

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1709 SDG#: DX117-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.260	JQ	0.0400	0.985	1
11031	12378-PeCDD	40321-76-4	1.85	JB	0.101	4.92	1
11031	123478-HxCDD	39227-28-6	3.80	JB	0.0882	4.92	1
11031	123678-HxCDD	57653-85-7	10.1	B	0.0901	4.92	1
11031	123789-HxCDD	19408-74-3	7.03	B	0.0923	4.92	1
11031	1234678-HpCDD	35822-46-9	327	B	0.178	4.92	1
11031	OCDD	3268-87-9	3,590	B	0.193	9.85	1
11650	2378-TCDF-Conf	51207-31-9	1.96	BC	0.0559	0.985	1
11031	12378-PeCDF	57117-41-6	13.1	B	0.0825	4.92	1
11031	23478-PeCDF	57117-31-4	2.69	JB	0.0801	4.92	1
11031	123478-HxCDF	70648-26-9	4.85	JB	0.0770	4.92	1
11031	123678-HxCDF	57117-44-9	3.17	J	0.0697	4.92	1
11031	123789-HxCDF	72918-21-9	0.969	JB	0.0744	4.92	1
11031	234678-HxCDF	60851-34-5	2.95	JB	0.0714	4.92	1
11031	1234678-HpCDF	67562-39-4	66.4	B	0.0693	4.92	1
11031	1234789-HpCDF	55673-89-7	4.96	B	0.110	4.92	1
11031	OCDF	39001-02-0	270	B	0.0723	9.85	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-2378-TCDF-Conf	77	24 - 169
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP05-SA6-QC-072111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP05-SA6-QC-072111

LLI Sample # SW 6353227
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:40

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1709 SDG#: DX117-09FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP05-SA6-QC-072111 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA6-QC-072111

LLI Sample # SW 6353227
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:40

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1709 SDG#: DX117-09FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11215001	08/07/2011 07:47	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11215001	08/08/2011 19:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11215001	08/03/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401A	07/28/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-073-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA6-SB-4.0-5.0

LLI Sample # SW 6353228
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:00

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1710 SDG#: DX117-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-073-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA6-SB-4.0-5.0

LLI Sample # SW 6353228
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:00

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1710 SDG#: DX117-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.324	J	0.0395	1.09	1
11031	12378-PeCDD	40321-76-4	2.85	JB	0.0684	5.45	1
11031	123478-HxCDD	39227-28-6	3.50	JB	0.0908	5.45	1
11031	123678-HxCDD	57653-85-7	8.67	B	0.0905	5.45	1
11031	123789-HxCDD	19408-74-3	3.05	JB	0.0882	5.45	1
11031	1234678-HpCDD	35822-46-9	528	B	0.224	5.45	1
11031	OCDD	3268-87-9	5,320	EB	0.245	10.9	1
11650	2378-TCDF-Conf	51207-31-9	0.929	JBC	0.0356	1.09	1
11031	12378-PeCDF	57117-41-6	1.22	JB	0.0461	5.45	1
11031	23478-PeCDF	57117-31-4	0.945	JB	0.0421	5.45	1
11031	123478-HxCDF	70648-26-9	1.45	JB	0.0543	5.45	1
11031	123678-HxCDF	57117-44-9	1.02	J	0.0532	5.45	1
11031	123789-HxCDF	72918-21-9	0.386	JB	0.0561	5.45	1
11031	234678-HxCDF	60851-34-5	1.81	JB	0.0546	5.45	1
11031	1234678-HpCDF	67562-39-4	29.4	B	0.0628	5.45	1
11031	1234789-HpCDF	55673-89-7	3.07	JB	0.0872	5.45	1
11031	OCDF	39001-02-0	82.0	B	0.0710	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-2378-TCDF-Conf	85	24 - 169
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	68	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-073-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA6-SB-4.0-5.0

LLI Sample # SW 6353228
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:00

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1710 SDG#: DX117-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-073-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA6-SB-4.0-5.0

LLI Sample # SW 6353228
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:00

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1710 SDG#: DX117-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11215001	08/07/2011 08:43	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11215001	08/08/2011 20:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11215001	08/03/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401A	07/28/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-081-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA6-SB-4.0-5.0

LLI Sample # SW 6353229
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:10

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1711 SDG#: DX117-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-081-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA6-SB-4.0-5.0

LLI Sample # SW 6353229
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:10

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1711 SDG#: DX117-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0392 JQ	0.0322	1.06	1
11031	12378-PeCDD	40321-76-4	0.0804 JBQ	0.0375	5.29	1
11031	123478-HxCDD	39227-28-6	0.0600 JBQ	0.0366	5.29	1
11031	123678-HxCDD	57653-85-7	0.128 JBQ	0.0362	5.29	1
11031	123789-HxCDD	19408-74-3	0.0987 JB	0.0343	5.29	1
11031	1234678-HpCDD	35822-46-9	1.24 JB	0.0573	5.29	1
11031	OCDD	3268-87-9	7.81 JB	0.0964	10.6	1
11031	2378-TCDF	51207-31-9	0.0268 JBQ	0.0265	1.06	1
11031	12378-PeCDF	57117-41-6	0.0177 JBQ	0.0168	5.29	1
11031	23478-PeCDF	57117-31-4	0.0345 JB	0.0153	5.29	1
11031	123478-HxCDF	70648-26-9	0.0200 U	0.0200	5.29	1
11031	123678-HxCDF	57117-44-9	0.0221 JQ	0.0179	5.29	1
11031	123789-HxCDF	72918-21-9	0.0240 U	0.0240	5.29	1
11031	234678-HxCDF	60851-34-5	0.0242 JBQ	0.0191	5.29	1
11031	1234678-HpCDF	67562-39-4	0.152 JBQ	0.0255	5.29	1
11031	1234789-HpCDF	55673-89-7	0.0482 JBQ	0.0446	5.29	1
11031	OCDF	39001-02-0	0.414 JB	0.0521	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	51	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-081-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA6-SB-4.0-5.0

LLI Sample # SW 6353229
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:10

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1711 SDG#: DX117-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-081-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA6-SB-4.0-5.0

LLI Sample # SW 6353229
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:10

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1711 SDG#: DX117-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11215001	08/07/2011 09:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11215001	08/03/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401A	07/28/2011 20:37	Scott W Freisher	1

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Analysis Report

Sample Description: SL-081-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA6-SB-9.0-10.0

LLI Sample # SW 6353230
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:20

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1712 SDG#: DX117-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-081-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA6-SB-9.0-10.0

LLI Sample # SW 6353230
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:20

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1712 SDG#: DX117-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0322 U	0.0322	1.11	1
11031	12378-PeCDD	40321-76-4	0.0614 JBQ	0.0284	5.54	1
11031	123478-HxCDD	39227-28-6	0.0319 U	0.0319	5.54	1
11031	123678-HxCDD	57653-85-7	0.0590 JB	0.0321	5.54	1
11031	123789-HxCDD	19408-74-3	0.0884 JBQ	0.0301	5.54	1
11031	1234678-HpCDD	35822-46-9	1.05 JB	0.0575	5.54	1
11031	OCDD	3268-87-9	6.36 JB	0.0913	11.1	1
11031	2378-TCDF	51207-31-9	0.0266 U	0.0266	1.11	1
11031	12378-PeCDF	57117-41-6	0.0203 JBQ	0.0144	5.54	1
11031	23478-PeCDF	57117-31-4	0.0569 JBQ	0.0146	5.54	1
11031	123478-HxCDF	70648-26-9	0.0211 JB	0.0211	5.54	1
11031	123678-HxCDF	57117-44-9	0.0220 JQ	0.0175	5.54	1
11031	123789-HxCDF	72918-21-9	0.0231 JBQ	0.0226	5.54	1
11031	234678-HxCDF	60851-34-5	0.0493 JBQ	0.0193	5.54	1
11031	1234678-HpCDF	67562-39-4	0.102 JBQ	0.0234	5.54	1
11031	1234789-HpCDF	55673-89-7	0.0739 JB	0.0498	5.54	1
11031	OCDF	39001-02-0	0.254 JB	0.0994	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	46	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-081-SA6-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA6-SB-9.0-10.0

LLI Sample # SW 6353230
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:20

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1712 SDG#: DX117-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-081-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA6-SB-9.0-10.0

LLI Sample # SW 6353230
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 15:20

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1712 SDG#: DX117-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11215001	08/07/2011 10:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11215001	08/03/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401A	07/28/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-104-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA6-SB-2.5-3.5

LLI Sample # SW 6353231
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:40

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1713 SDG#: DX117-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-104-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA6-SB-2.5-3.5

LLI Sample # SW 6353231
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:40

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1713 SDG#: DX117-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0441	J	0.0373	1.08	1
11031	12378-PeCDD	40321-76-4	0.122	JBQ	0.0395	5.38	1
11031	123478-HxCDD	39227-28-6	0.125	JBQ	0.0545	5.38	1
11031	123678-HxCDD	57653-85-7	0.495	JB	0.0541	5.38	1
11031	123789-HxCDD	19408-74-3	0.258	JBQ	0.0528	5.38	1
11031	1234678-HpCDD	35822-46-9	22.9	B	0.106	5.38	1
11031	OCDD	3268-87-9	213	B	0.116	10.8	1
11031	2378-TCDF	51207-31-9	0.0845	JBQ	0.0410	1.08	1
11031	12378-PeCDF	57117-41-6	1.19	JBQ	0.0374	5.38	1
11031	23478-PeCDF	57117-31-4	0.772	JB	0.0337	5.38	1
11031	123478-HxCDF	70648-26-9	0.483	JB	0.0408	5.38	1
11031	123678-HxCDF	57117-44-9	0.238	J	0.0416	5.38	1
11031	123789-HxCDF	72918-21-9	0.0492	U	0.0492	5.38	1
11031	234678-HxCDF	60851-34-5	0.195	JB	0.0407	5.38	1
11031	1234678-HpCDF	67562-39-4	2.76	JB	0.0403	5.38	1
11031	1234789-HpCDF	55673-89-7	0.181	JBQ	0.0553	5.38	1
11031	OCDF	39001-02-0	10.4	JB	0.0683	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-104-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA6-SB-2.5-3.5

LLI Sample # SW 6353231
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:40

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1713 SDG#: DX117-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-104-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA6-SB-2.5-3.5

LLI Sample # SW 6353231
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 14:40

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1713 SDG#: DX117-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11215001	08/07/2011 11:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11215001	08/03/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401A	07/28/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-105-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA6-SB-2.5-3.5

LLI Sample # SW 6353232
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:59

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1714 SDG#: DX117-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-105-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA6-SB-2.5-3.5

LLI Sample # SW 6353232
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:59

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1714 SDG#: DX117-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0444 JQ	0.0287	1.06	1
11031	12378-PeCDD	40321-76-4	0.0911 JBQ	0.0267	5.30	1
11031	123478-HxCDD	39227-28-6	0.0912 JB	0.0344	5.30	1
11031	123678-HxCDD	57653-85-7	0.188 JB	0.0335	5.30	1
11031	123789-HxCDD	19408-74-3	0.132 JB	0.0323	5.30	1
11031	1234678-HpCDD	35822-46-9	4.55 JB	0.0460	5.30	1
11031	OCDD	3268-87-9	36.6 B	0.0931	10.6	1
11031	2378-TCDF	51207-31-9	0.0844 JB	0.0260	1.06	1
11031	12378-PeCDF	57117-41-6	0.203 JBQ	0.0192	5.30	1
11031	23478-PeCDF	57117-31-4	0.315 JBQ	0.0193	5.30	1
11031	123478-HxCDF	70648-26-9	0.162 JBQ	0.0247	5.30	1
11031	123678-HxCDF	57117-44-9	0.124 J	0.0226	5.30	1
11031	123789-HxCDF	72918-21-9	0.0621 JBQ	0.0279	5.30	1
11031	234678-HxCDF	60851-34-5	0.0956 JB	0.0243	5.30	1
11031	1234678-HpCDF	67562-39-4	0.745 JB	0.0235	5.30	1
11031	1234789-HpCDF	55673-89-7	0.0715 JBQ	0.0398	5.30	1
11031	OCDF	39001-02-0	1.46 JBQ	0.0475	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	54	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-105-SA6-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA6-SB-2.5-3.5

LLI Sample # SW 6353232
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:59

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1714 SDG#: DX117-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-105-SA6-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA6-SB-2.5-3.5

LLI Sample # SW 6353232
LLI Group # 1257839
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/21/2011 10:59

Submitted: 07/22/2011 10:10
Reported: 08/17/2011 17:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1714 SDG#: DX117-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11215001	08/07/2011 12:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11215001	08/03/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401A	07/28/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257839
Reported: 08/17/11 at 05:17 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11209162401A	Sample number(s): 6353220,6353222,6353224-6353225,6353227-6353232								
Moisture Content by 160.3					100		80-120		
Batch number: 11222162401A	Sample number(s): 6353217-6353219,6353221,6353223,6353226								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11215001	Sample number(s): 6353217-6353221,6353225-6353232								
2378-TCDD	0.0333 U	0.0333	1.00	ng/kg	93		67-158		
12378-PeCDD	0.0492 J	0.0290	5.00	ng/kg	94		70-142		
123478-HxCDD	0.0923 J	0.0285	5.00	ng/kg	94		70-164		
123678-HxCDD	0.0904 J	0.0275	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0884 J	0.0266	5.00	ng/kg	91		64-162		
1234678-HpCDD	1.55 J	0.0321	5.00	ng/kg	93		70-140		
OCDD	9.37 J	0.0341	10.0	ng/kg	97		78-144		
2378-TCDF	0.0312 J	0.0253	1.00	ng/kg	89		75-158		
2378-TCDF-Conf	0.0125 U	0.0125	1.00	ng/kg	89		75-158		
12378-PeCDF	0.0271 J	0.0144	5.00	ng/kg	91		80-134		
23478-PeCDF	0.0505 J	0.0147	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0210 J	0.0113	5.00	ng/kg	87		72-134		
123678-HxCDF	0.00940 U	0.00940	5.00	ng/kg	88		84-130		
123789-HxCDF	0.0316 J	0.0132	5.00	ng/kg	88		78-130		
234678-HxCDF	0.0231 J	0.0106	5.00	ng/kg	90		70-156		
1234678-HpCDF	0.0375 J	0.00920	5.00	ng/kg	87		82-122		
1234789-HpCDF	0.0418 J	0.0176	5.00	ng/kg	90		78-138		
OCDF	0.101 J	0.0423	10.0	ng/kg	90		63-170		
Batch number: 11222002	Sample number(s): 6353222-6353224								
2378-TCDD	0.0120 J	0.0109	1.00	ng/kg	91		67-158		
12378-PeCDD	0.0211 J	0.00990	5.00	ng/kg	96		70-142		
123478-HxCDD	0.0201 J	0.00880	5.00	ng/kg	99		70-164		
123678-HxCDD	0.0380 J	0.00900	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0395 J	0.00820	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.288 J	0.0108	5.00	ng/kg	100		70-140		
OCDD	0.582 J	0.00970	10.0	ng/kg	101		78-144		
2378-TCDF-Conf	0.0580 U	0.0580	1.00	ng/kg	102		75-158		
12378-PeCDF	0.0321 J	0.00550	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0487 J	0.00530	5.00	ng/kg	100		68-160		
123478-HxCDF	0.0276 J	0.00670	5.00	ng/kg	106		72-134		
123678-HxCDF	0.0102 J	0.00590	5.00	ng/kg	105		84-130		
123789-HxCDF	0.0235 J	0.00630	5.00	ng/kg	106		78-130		
234678-HxCDF	0.0245 J	0.00580	5.00	ng/kg	106		70-156		
1234678-HpCDF	0.0535 J	0.00610	5.00	ng/kg	102		82-122		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257839
Reported: 08/17/11 at 05:17 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
1234789-HpCDF	0.0287 J	0.00940	5.00	ng/kg	105		78-138		
OCDF	0.102 J	0.0135	10.0	ng/kg	107		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11209162401A	Sample number(s): 6353220,6353222,6353224-6353225,6353227-6353232 BKG: P351927								
Moisture Content by 160.3						10.8	10.9	1	20
Batch number: 11222162401A	Sample number(s): 6353217-6353219,6353221,6353223,6353226 BKG: P353026								
Moisture Content by 160.3						1.9	1.9	1 (1)	20
Batch number: 11215001	Sample number(s): 6353217-6353221,6353225-6353232 UNSPK: 6353217								
2378-TCDD	92	92	67-158	3	25				
12378-PeCDD	97	99	70-142	4	25				
123478-HxCDD	94	93	70-164	2	25				
123678-HxCDD	94	94	76-134	1	25				
123789-HxCDD	91	92	64-162	3	25				
1234678-HpCDD	148 (2)	103 (2)	70-140	6	25				
OCDD	584 (2)	139 (2)	78-144	13	25				
2378-TCDF	87	92	75-158	7	25				
2378-TCDF-Conf	87	92	75-158	7	25				
12378-PeCDF	91	90	80-134	1	25				
23478-PeCDF	89	90	68-160	3	25				
123478-HxCDF	88	87	72-134	1	25				
123678-HxCDF	88	88	84-130	2	25				
123789-HxCDF	90	90	78-130	3	25				
234678-HxCDF	89	90	70-156	3	25				
1234678-HpCDF	107	97	82-122	3	25				
1234789-HpCDF	90	92	78-138	4	25				
OCDF	119	90	63-170	10	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11215001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6353217	75	66	68	72	71	79
6353218	78	69	74	77	73	81
6353219	79	68	69	76	70	78
6353220	76	69	70	76	72	82
6353221	74	67	70	77	70	75
6353225	79	66	69	74	69	77
6353226	75	61	63	69	64	71

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257839
Reported: 08/17/11 at 05:17 PM

Surrogate Quality Control

6353227	77	66	69	73	69	80
6353228	80	70	73	75	72	82
6353229	70	63	65	72	66	63
6353230	74	62	59	70	61	62
6353231	80	75	74	76	77	76
6353232	76	66	68	75	68	72
Blank	83	73	77	88	79	73
MS	78	69	74	77	73	81
MSD	79	68	69	76	70	78
OPR	79	72	74	81	76	74
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6353217	81	66	67	70	77	82
6353218	83	68	71	72	81	83
6353219	87	64	65	74	80	81
6353220	83	65	66	71	79	79
6353221	84	62	61	70	77	81
6353225	81	66	70	69	80	81
6353226	80	58	57	68	76	78
6353227	80	65	66	71	80	79
6353228	79	72	68	71	79	82
6353229	81	56	51	68	75	77
6353230	84	50	46	70	75	76
6353231	76	69	64	74	81	84
6353232	83	60	54	70	77	79
Blank	102	66	61	82	92	95
MS	83	68	71	72	81	83
MSD	87	64	65	74	80	81
OPR	94	67	60	77	85	90
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6353217	80	80	85	71	71	
6353218	82	83	88	75	74	
6353219	80	81	85	74	77	
6353220	79	79	82		74	77
6353221	79	77	78	70	73	
6353225	80	85	92	74	71	78
6353226	77	78	79	69	69	73
6353227	78	81	84	74	73	77
6353228	81	81	78	79	71	85
6353229	76	76	68	66	68	
6353230	76	74	66	66	70	
6353231	82	79	72	82	77	
6353232	77	77	69	73	74	
Blank	94	92	84	76	84	82
MS	82	83	88	75	74	75
MSD	80	81	85	74	77	74
OPR	87	86	79	76	79	76
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

Analysis Name: 10a Dioxin/Furan by EPA 1613B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1257839
Reported: 08/17/11 at 05:17 PM

Surrogate Quality Control

Batch number: 11222002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6353222	85	83	76	84	76	51
6353223	75	65	68	78	76	76
6353224	76	65	70	82	76	71
Blank	70	62	61	69	67	73
OPR	73	67	64	74	73	74
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6353222	97	59	54	90	82	78
6353223	105	59	61	77	84	82
6353224	105	66	47	75	82	79
Blank	86	67	64	71	74	72
OPR	97	69	64	78	80	77
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6353222	82	76	70		106	74
6353223	90	84	84		75	71
6353224	83	90	75	63	74	72
Blank	76	80	78	57	65	62
OPR	82	88	87	60	72	60
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 / 1357339 / 6353217-32

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS										SS ONLY		SECONDARY FOR ALL LOCATIONS										
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-211-SA6-SS-0.0-0.5MS	7/21/11	1023	SOIL	NONE	2-SS Sleeve			X	X																	
SL-211-SA6-SS-0.0-0.5MS	7/21/11	1023	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X	X	X	X										MS/MSD
SL-214-SA6-SS-0.0-0.5	7/21/11	0907	SOIL	NONE	1-SS Sleeve			X	X																	MS/MSD
SL-214-SA6-SS-0.0-0.5	7/21/11	0907	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
SL-216-SA6-SS-0.0-0.5	7/21/11	0949	SOIL	NONE	1-SS Sleeve			X	X																	
SL-216-SA6-SS-0.0-0.5	7/21/11	0949	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X						X	X	X	
SL-219-SA6-SS-0.0-0.5	7/21/11	0925	SOIL	NONE	1-SS Sleeve			X	X																	
SL-219-SA6-SS-0.0-0.5	7/21/11	0925	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X	X	X	X	X						X	X	X	
SL-228-SA6-SS-0.0-0.5MS	7/21/11	1239	SOIL	NONE	2-SS Sleeve			X	X																	MS/MSD
SL-228-SA6-SS-0.0-0.5MS	7/21/11	1239	SOIL	NONE	4-16 oz.jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	MS/MSD
SL-237-SA6-SS-0.0-0.5	7/21/11	1400	SOIL	NONE	1-SS Sleeve			X	X																	
SL-237-SA6-SS-0.0-0.5	7/21/11	1400	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
SL-240-SA6-SS-0.0-0.5	7/21/11	1501	SOIL	NONE	1-SS Sleeve			X	X																	
SL-240-SA6-SS-0.0-0.5	7/21/11	1501	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-314-SA6-SS-0.0-0.5	7/21/11	1314	SOIL	NONE	1-SS Sleeve			X	X																	
SL-314-SA6-SS-0.0-0.5	7/21/11	1314	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X	X	X	X										
SL-315-SA6-SS-0.0-0.5	7/21/11	1337	SOIL	NONE	1-SS Sleeve			X	X																	
SL-315-SA6-SS-0.0-0.5	7/21/11	1337	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-316-SA6-SS-0.0-0.5	7/21/11	1420	SOIL	NONE	1-SS Sleeve			X	X																	
SL-316-SA6-SS-0.0-0.5	7/21/11	1420	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X	X	X	X										
SL-318-SA6-SS-0.0-0.5	7/21/11	1441	SOIL	NONE	1-SS Sleeve			X	X																	
SL-318-SA6-SS-0.0-0.5	7/21/11	1441	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
DUP06-SA6-QC-072111	7/21/11	1249	SOIL	NONE	1-SS Sleeve			X	X																	
DUP06-SA6-QC-072111	7/21/11	1249	SOIL	NONE	2-16 oz.jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
DUP05-SA6-QC-072111	7/21/11	1040	SOIL	NONE	1-SS Sleeve			X	X																	
DUP05-SA6-QC-072111	7/21/11	1040	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	
	07/21/2011 / 1600		Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
	7/22/11 1010	8754 3340 9674,9685, 9663	

13018
~~12898~~ / 1257539 / 6353217-32
Alec 7/22/11 (6)

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-073-SA6-SB-4.5	7/21/11	0955	SOIL	NONE	5-Encores										X	X	X										
SL-073-SA6-SB-4.0-5.0	7/21/11	1000	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-081-SA6-SB-4.5	7/21/11	1505	SOIL	NONE	5-Encores										X	X	X										
SL-081-SA6-SB-4.0-5.0	7/21/11	1510	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-081-SA6-SB-9.5	7/21/11	1515	SOIL	NONE	1-Encore												X										
SL-081-SA6-SB-9.0-10.0	7/21/11	1520	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-104-SA6-SB-3.0	7/21/11	1435	SOIL	NONE	5-Encores										X	X	X										
SL-104-SA6-SB-2.5-3.5	7/21/11	1440	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-105-SA6-SB-3.0	7/21/11	1055	SOIL	NONE	5-Encore										X	X	X										
SL-105-SA6-SB-2.5-3.5	7/21/11	1059	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
TB-072111	7/21/11	0800	SOIL	NONE	4-40mL Vials										X	X	X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	07/21/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	7/22/11 / 1010	8754 3340 9674,9685, 9663	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

September 06, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/23/2011
Group Number: 1258012
SDG: DE207
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-233-SA6-SS-0.0-0.5 Soil	6354150
SL-238-SA6-SS-0.0-0.5 Soil	6354151
SL-241-SA6-SS-0.0-0.5 Soil	6354152
SL-242-SA6-SS-0.0-0.5 Soil	6354153
SL-243-SA6-SS-0.0-0.5 Soil	6354154
SL-244-SA6-SS-0.0-0.5 Soil	6354155
SL-307-SA6-SS-0.0-0.5 Soil	6354156
SL-308-SA6-SS-0.0-0.5 Soil	6354157
SL-309-SA6-SS-0.0-0.5 Soil	6354158
SL-082-SA6-SB-4.0-5.0 Soil	6354159
SL-082-SA6-SB-9.0-10.0 Soil	6354160
SL-103-SA6-SB-4.0-5.0 Soil	6354161
SL-103-SA6-SB-9.0-10.0 Soil	6354162
SL-124-SA6-SB-4.0-5.0 Soil	6354163
SL-124-SA6-SB-12.5-13.5 Soil	6354164
SL-075-SA6-SB-4.0-5.0 Soil	6354165
SL-075-SA6-SB-9.0-10.0 Soil	6354166
TB-072211 Water	6354167

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

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Analysis Report

COPY TO
1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-233-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA6-SS-0.0-0.5

LLI Sample # SW 6354150
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:09

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0701 SDG#: DE207-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	16.7	U	16.7	33.4		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Chrysene	218-01-9	24	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Fluoranthene	206-44-0	78	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-233-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA6-SS-0.0-0.5

LLI Sample # SW 6354150
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:09

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0701 SDG#: DE207-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenanthrene	85-01-8	48	J	17	170		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	63	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.1	J	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	2.6		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	J	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.2	J	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.1	18		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	55	U	55	110	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	37	U	37	110	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	73	U	73	220	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	73	U	73	220	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-233-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA6-SS-0.0-0.5

LLI Sample # SW 6354150
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:09

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0701 SDG#: DE207-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	37	U	37	110	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	37	U	37	110	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	37	U	37	110	10000000	1
10132	HMX	2691-41-0	92	U	92	280	10000000	1
10132	Nitrobenzene	98-95-3	37	U	37	110	10000000	1
10132	Nitroglycerin	55-63-0	730	U	730	2,200	10000000	1
10132	2-Nitrotoluene	88-72-2	73	U	73	110	10000000	1
10132	3-Nitrotoluene	99-08-1	92	U	92	110	10000000	1
10132	4-Nitrotoluene	99-99-0	73	U	73	110	10000000	1
10132	PETN	78-11-5	730	U	730	2,200	10000000	1
10132	RDX	121-82-4	46	U	46	110	10000000	1
10132	Tetryl	479-45-8	56	U	56	110	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	37	U	37	110	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	37	U	37	110	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	4.8	U	4.8	4.8		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.085	J	0.076	0.17		1
	Reporting limits were raised for 2,4-DB due to interference from the sample matrix.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-233-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA6-SS-0.0-0.5

LLI Sample # SW 6354150
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:09

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0701 SDG#: DE207-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.091	U	0.091	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.12	J	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	1.1		0.067	0.34		1
01363	p,p-DDT	50-29-3	2.2		0.067	0.34		1
01363	Delta BHC	319-86-8	0.25		0.036	0.17		1
01363	Dieldrin	60-57-1	0.30	U	0.30	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.33	U	0.33	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.14	U	0.14	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.16	U	0.16	0.34		1
01363	Toxaphene	8001-35-2	8.6	U	8.6	8.6		1
Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	12		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	7.0		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-233-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA6-SS-0.0-0.5

LLI Sample # SW 6354150
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:09

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0701 SDG#: DE207-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	5.8		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	14		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,000		5.98	19.8		1
07914	Boron	7440-42-8	2.63	J	0.356	4.94		1
01650	Calcium	7440-70-2	1,940		2.47	19.8		1
01654	Iron	7439-89-6	15,400		2.58	19.8		1
01656	Lithium	7439-93-2	17.7		0.61	2.0		1
01657	Magnesium	7439-95-4	3,230		0.435	9.89		1
06958	Manganese	7439-96-5	236		0.0356	0.494		1
10145	Phosphorus	7723-14-0	345		0.346	9.89		1
01662	Potassium	7440-09-7	2,590		11.2	49.4		1
01667	Sodium	7440-23-5	61.1	J	5.88	98.9		1
07968	Strontium	7440-24-6	13.3		0.0247	0.494		1
06969	Tin	7440-31-5	2.45	J	0.316	9.89		1
06970	Titanium	7440-32-6	834		0.0716	1.01		1
10146	Zirconium	7440-67-7	2.43	J	0.455	4.94		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.365		0.0718	0.194		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.90		0.0776	0.388		2
06126	Barium	7440-39-3	107		0.103	0.388		2
06127	Beryllium	7440-41-7	0.676		0.0155	0.0970		2
06128	Cadmium	7440-43-9	0.416		0.0427	0.0970		2
06131	Chromium	7440-47-3	22.6		0.116	0.388		2
06132	Cobalt	7440-48-4	6.71		0.0194	0.0970		2
06133	Copper	7440-50-8	14.5		0.0776	0.388		2
06135	Lead	7439-92-1	12.6		0.0099	0.194		2
06138	Molybdenum	7439-98-7	1.33		0.0485	0.0970		2
06139	Nickel	7440-02-0	84.5		0.0970	0.388		2
06141	Selenium	7782-49-2	0.160	J	0.0562	0.388		2
06142	Silver	7440-22-4	5.38		0.0138	0.0970		2
06145	Thallium	7440-28-0	0.280		0.0291	0.0970		2
06148	Vanadium	7440-62-2	37.9		0.0213	0.0970		2

*=This limit was used in the evaluation of the final result
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Sample Description: SL-233-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA6-SS-0.0-0.5

LLI Sample # SW 6354150
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:09

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0701 SDG#: DE207-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg		mg/kg	mg/kg	mg/kg	
06149	Zinc	7440-66-6	134		0.543	2.91		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0069	U	0.0069	0.0978		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.3		0.82	1.5		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.61	J	0.20	1.0		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	16a Cyanide by 9012B	57-12-5	0.17	U	0.17	0.48		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	6.72		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	0.85		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11213SLA026	08/10/2011 22:44	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLN026	08/16/2011 15:18	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLC026	08/06/2011 15:53	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11213SLA026	08/02/2011 08:30	Olivia Arosemena	1

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Sample Description: SL-233-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA6-SS-0.0-0.5

LLI Sample # SW 6354150
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:09

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0701 SDG#: DE207-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLC026	08/04/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLN026	08/03/2011 06:00	Joseph S Feister	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112140015A	08/05/2011 09:33	Michele D Hamilton	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112070008A	07/28/2011 03:53	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112150006A	08/05/2011 07:00	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	08/31/2011 01:04	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112150010A	08/05/2011 18:12	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112150007A	08/03/2011 19:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112150010A	08/03/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112150006A	08/03/2011 20:00	Elaine F Stoltzfus	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112070008A	07/26/2011 13:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112140015A	08/03/2011 00:45	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112080025A	07/28/2011 22:54	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112060001A	07/25/2011 14:41	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112140032A	08/04/2011 17:33	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112150001A	08/04/2011 10:20	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112150001A	08/03/2011 09:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112140032A	08/03/2011 06:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112080025A	07/28/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112060001A	07/25/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112135708002	08/03/2011 03:10	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112135708002	08/03/2011 11:37	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708002	08/03/2011 03:10	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112135708002	08/03/2011 03:10	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112135708002	08/03/2011 03:10	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112135708002	08/03/2011 03:10	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112135708002	08/03/2011 03:10	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112135708002	08/03/2011 03:10	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112135708002	08/03/2011 03:10	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112135708002	08/03/2011 03:10	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112135708002	08/03/2011 03:10	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112135708002	08/03/2011 03:10	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112155708001	08/04/2011 17:06	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112135708002	08/03/2011 03:10	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112131026001A	08/02/2011 10:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112131026001A	08/02/2011 10:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112131026001D	08/02/2011 10:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112131026001A	08/02/2011 10:33	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-233-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA6-SS-0.0-0.5

LLI Sample # SW 6354150
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:09

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0701 SDG#: DE207-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112131026001A	08/02/2011 10:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112131026001A	08/02/2011 10:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112131026001A	08/02/2011 10:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112131026001A	08/02/2011 10:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112131026001A	08/02/2011 10:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112131026001C	08/02/2011 10:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112131026001A	08/02/2011 10:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112131026001B	08/02/2011 10:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112131026001A	08/02/2011 10:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112131026001A	08/02/2011 10:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112131026001A	08/02/2011 10:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112131026001A	08/02/2011 10:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112135711002	08/02/2011 07:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708002	08/01/2011 21:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112155708001	08/04/2011 07:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026001	08/01/2011 21:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711002	08/02/2011 02:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621201A	08/04/2011 19:31	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11216621201A	08/04/2011 19:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209284201A	07/31/2011 14:31	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11215243202A	08/08/2011 14:54	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11215102201A	08/03/2011 18:39	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621201A	08/04/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209284201A	07/28/2011 16:15	Alex M Rittle	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11215102201A	08/03/2011 09:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039403A	08/02/2011 12:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243202A	08/03/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-238-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-238-SA6-SS-0.0-0.5

LLI Sample # SW 6354151
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:56

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0702 SDG#: DE207-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1

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Sample Description: SL-238-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-238-SA6-SS-0.0-0.5

LLI Sample # SW 6354151
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:56

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0702 SDG#: DE207-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.2	J	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	1.5	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	2.4		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	1.4	J	0.67	1.7		1
10138	Pyrene	129-00-0	2.1		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	3.2	U	3.2	3.2		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	160	U	160	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

Reporting limits were raised for MCPA and 2,4-DB due to interference from the sample matrix.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-238-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-238-SA6-SS-0.0-0.5

LLI Sample # SW 6354151
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:56

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0702 SDG#: DE207-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.1		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	2.1	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.23	J	0.067	0.34		1
01363	p,p-DDT	50-29-3	0.36		0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.14	U	0.14	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.15	U	0.15	0.34		1
01363	Toxaphene	8001-35-2	4.0	U	4.0	6.7		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	2.7	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	1.2	J	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,800		6.06	20.0		1
07914	Boron	7440-42-8	3.32	J	0.360	5.01		1
01650	Calcium	7440-70-2	2,950		2.50	20.0		1
01654	Iron	7439-89-6	24,600		2.61	20.0		1
01656	Lithium	7439-93-2	31.5		0.62	2.0		1
01657	Magnesium	7439-95-4	5,650		0.440	10.0		1
06958	Manganese	7439-96-5	342		0.0360	0.501		1
10145	Phosphorus	7723-14-0	423		0.350	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-238-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-238-SA6-SS-0.0-0.5

LLI Sample # SW 6354151
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:56

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0702 SDG#: DE207-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	4,240		11.3	50.1		1
01667	Sodium	7440-23-5	80.2	J	5.96	100		1
07968	Strontium	7440-24-6	21.2		0.0250	0.501		1
06969	Tin	7440-31-5	2.89	J	0.320	10.0		1
06970	Titanium	7440-32-6	1,250		0.0718	1.01		1
10146	Zirconium	7440-67-7	2.85	J	0.461	5.01		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.223		0.0741	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.27		0.0801	0.400		2
06126	Barium	7440-39-3	148		0.106	0.400		2
06127	Beryllium	7440-41-7	0.911		0.0160	0.100		2
06128	Cadmium	7440-43-9	0.270		0.0440	0.100		2
06131	Chromium	7440-47-3	29.9		0.120	0.400		2
06132	Cobalt	7440-48-4	10.1		0.0200	0.100		2
06133	Copper	7440-50-8	17.1		0.0801	0.400		2
06135	Lead	7439-92-1	17.1		0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.837		0.0501	0.100		2
06139	Nickel	7440-02-0	25.5		0.100	0.400		2
06141	Selenium	7782-49-2	0.220	J	0.0581	0.400		2
06142	Silver	7440-22-4	0.180		0.0142	0.100		2
06145	Thallium	7440-28-0	0.410		0.0300	0.100		2
06148	Vanadium	7440-62-2	50.0		0.0220	0.100		2
06149	Zinc	7440-66-6	89.5		0.561	3.00		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.010	J	0.0068	0.0964		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	45.5	U	45.5	152		5
	Reporting limits were raised due to interference from the sample matrix.							
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.64	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.55		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.1		0.50	0.50		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-238-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-238-SA6-SS-0.0-0.5

LLI Sample # SW 6354151
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:56

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0702 SDG#: DE207-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLN026	08/16/2011	16:33	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLC026	08/08/2011	00:15	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLC026	08/04/2011	07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLN026	08/03/2011	06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112150006A	08/05/2011	07:28	Anita M Dale	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112140035A	08/04/2011	16:48	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	08/31/2011	01:48	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112150010A	08/05/2011	19:08	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112150007A	08/03/2011	19:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112150010A	08/03/2011	16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112150006A	08/03/2011	20:00	Elaine F Stoltzfus	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112140035A	08/03/2011	09:30	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112135708002	08/03/2011	03:36	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112135708002	08/03/2011	11:59	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708002	08/03/2011	03:36	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112135708002	08/03/2011	03:36	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112135708002	08/03/2011	03:36	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112135708002	08/03/2011	03:36	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112135708002	08/03/2011	03:36	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112135708002	08/03/2011	03:36	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112135708002	08/03/2011	03:36	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112135708002	08/03/2011	03:36	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112135708002	08/03/2011	03:36	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112135708002	08/03/2011	03:36	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112155708001	08/04/2011	17:28	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-238-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-238-SA6-SS-0.0-0.5

LLI Sample # SW 6354151
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:56

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0702 SDG#: DE207-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112135708002	08/03/2011 03:36	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112131026001A	08/02/2011 10:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112131026001A	08/02/2011 10:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112131026001D	08/02/2011 10:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112131026001A	08/02/2011 10:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112131026001A	08/02/2011 10:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112131026001A	08/02/2011 10:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112131026001A	08/02/2011 10:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112131026001A	08/02/2011 10:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112131026001A	08/02/2011 10:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112131026001C	08/02/2011 10:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112131026001A	08/02/2011 10:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112131026001B	08/02/2011 10:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112131026001A	08/02/2011 10:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112131026001A	08/02/2011 10:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112131026001A	08/02/2011 10:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112131026001A	08/02/2011 10:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112135711002	08/02/2011 07:46	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708002	08/01/2011 21:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112155708001	08/04/2011 07:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026001	08/01/2011 21:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711002	08/02/2011 02:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621201A	08/04/2011 20:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11209284201A	08/03/2011 16:13	Elyse P Brunstetter	5
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11215243202A	08/08/2011 15:08	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621201A	08/04/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209284201A	07/28/2011 16:15	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039403A	08/02/2011 12:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243202A	08/03/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401A	07/29/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-241-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-241-SA6-SS-0.0-0.5

LLI Sample # SW 6354152
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:25

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0703 SDG#: DE207-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-241-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-241-SA6-SS-0.0-0.5

LLI Sample # SW 6354152
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:25

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0703 SDG#: DE207-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.67	U	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	0.67	U	0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	0.67	U	0.67	1.7		1
10138	Pyrene	129-00-0	0.67	U	0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	1.6	U	1.6	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1

Reporting limits were raised for 2,4-DB due to interference from the sample matrix.

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-241-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-241-SA6-SS-0.0-0.5

LLI Sample # SW 6354152
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:25

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0703 SDG#: DE207-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.084	J	0.034	0.17		1
01363	Chlordane	57-74-9	5.4		0.81	3.4		1
01363	p,p-DDD	72-54-8	4.3		0.67	3.4		10
01363	p,p-DDE	72-55-9	11		0.67	3.4		10
01363	p,p-DDT	50-29-3	110		6.7	34		100
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	9.7		0.67	3.4		10
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.25	J	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.74	J	0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,900		6.10	20.2		1
07914	Boron	7440-42-8	3.23	J	0.363	5.04		1
01650	Calcium	7440-70-2	3,050		2.52	20.2		1
01654	Iron	7439-89-6	18,200		2.63	20.2		1
01656	Lithium	7439-93-2	11.6		0.63	2.0		1
01657	Magnesium	7439-95-4	3,460		0.444	10.1		1
06958	Manganese	7439-96-5	251		0.0363	0.504		1
10145	Phosphorus	7723-14-0	457		0.353	10.1		1
01662	Potassium	7440-09-7	2,640		11.4	50.4		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-241-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-241-SA6-SS-0.0-0.5

LLI Sample # SW 6354152
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:25

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0703 SDG#: DE207-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	157	6.00	101		1
07968	Strontium	7440-24-6	48.0	0.0252	0.504		1
06969	Tin	7440-31-5	2.07 J	0.323	10.1		1
06970	Titanium	7440-32-6	772	0.0702	0.989		1
10146	Zirconium	7440-67-7	11.6	0.464	5.04		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.254	0.0725	0.196		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.38	0.0784	0.392		2
06126	Barium	7440-39-3	164	0.104	0.392		2
06127	Beryllium	7440-41-7	0.514	0.0157	0.0979		2
06128	Cadmium	7440-43-9	0.383	0.0431	0.0979		2
06131	Chromium	7440-47-3	19.4	0.118	0.392		2
06132	Cobalt	7440-48-4	7.59	0.0196	0.0979		2
06133	Copper	7440-50-8	13.6	0.0784	0.392		2
06135	Lead	7439-92-1	10.5	0.010	0.196		2
06138	Molybdenum	7439-98-7	0.793	0.0490	0.0979		2
06139	Nickel	7440-02-0	15.2	0.0979	0.392		2
06141	Selenium	7782-49-2	0.0812 J	0.0568	0.392		2
06142	Silver	7440-22-4	0.0339 J	0.0139	0.0979		2
06145	Thallium	7440-28-0	0.259	0.0294	0.0979		2
06148	Vanadium	7440-62-2	41.2	0.0215	0.0979		2
06149	Zinc	7440-66-6	150	1.37	7.35		5
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0346 J	0.0070	0.0993		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4	0.82	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1 U	9.1	30.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	4.0	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.06	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.88	0.50	0.50		1

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Sample Description: SL-241-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-241-SA6-SS-0.0-0.5

LLI Sample # SW 6354152
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:25

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0703 SDG#: DE207-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLN026	08/16/2011 16:58	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLC026	08/08/2011 00:47	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLC026	08/04/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLN026	08/03/2011 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112150006A	08/05/2011 08:51	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	08/31/2011 06:00	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	08/31/2011 06:15	Jamie L Brillhart	10
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	09/01/2011 10:49	Jamie L Brillhart	100
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112150010A	08/05/2011 19:26	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112150007A	08/03/2011 19:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112150010A	08/03/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112150006A	08/03/2011 20:00	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112135708002	08/03/2011 03:48	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112135708002	08/03/2011 12:10	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708002	08/03/2011 03:48	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112135708002	08/03/2011 03:48	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112135708002	08/03/2011 03:48	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112135708002	08/03/2011 03:48	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112135708002	08/03/2011 03:48	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112135708002	08/03/2011 03:48	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112135708002	08/03/2011 03:48	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112135708002	08/03/2011 03:48	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112135708002	08/03/2011 03:48	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112135708002	08/03/2011 03:48	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112155708001	08/04/2011 17:31	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112135708002	08/03/2011 03:48	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112131026001A	08/02/2011 10:54	Choon Y Tian	2

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Sample Description: SL-241-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-241-SA6-SS-0.0-0.5

LLI Sample # SW 6354152
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:25

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0703 SDG#: DE207-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112131026001A	08/02/2011 10:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112131026001D	08/02/2011 10:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112131026001A	08/02/2011 10:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112131026001A	08/02/2011 10:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112131026001A	08/02/2011 10:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112131026001A	08/02/2011 10:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112131026001A	08/02/2011 10:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112131026001A	08/02/2011 10:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112131026001C	08/02/2011 10:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112131026001A	08/02/2011 10:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112131026001B	08/02/2011 10:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112131026001A	08/02/2011 10:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112131026001A	08/02/2011 10:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112131026001A	08/02/2011 10:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112131026001A	08/02/2011 11:53	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112135711002	08/02/2011 07:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708002	08/01/2011 21:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112155708001	08/04/2011 07:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026001	08/01/2011 21:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711002	08/02/2011 02:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621201A	08/04/2011 20:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209284201A	07/31/2011 15:41	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11215243202A	08/08/2011 16:28	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621201A	08/04/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209284201A	07/28/2011 16:15	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039403A	08/02/2011 12:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243202A	08/03/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401A	07/29/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-242-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-242-SA6-SS-0.0-0.5

LLI Sample # SW 6354153
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:27

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0704 SDG#: DE207-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	30	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Sample Description: SL-242-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-242-SA6-SS-0.0-0.5

LLI Sample # SW 6354153
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:27

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0704 SDG#: DE207-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	3.4	U	3.4	8.4		5
10138	Benzo(a)pyrene	50-32-8	3.4	U	3.4	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	3.4	U	3.4	8.4		5
10138	Benzo(g,h,i)perylene	191-24-2	3.4	U	3.4	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	3.4	U	3.4	8.4		5
10138	Chrysene	218-01-9	3.4	J	1.7	8.4		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4		5
10138	Fluoranthene	206-44-0	3.4	U	3.4	8.4		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4		5
10138	Phenanthrene	85-01-8	3.4	U	3.4	8.4		5
10138	Pyrene	129-00-0	3.4	U	3.4	8.4		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	0.63	U	0.63	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-242-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-242-SA6-SS-0.0-0.5

LLI Sample # SW 6354153
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:27

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0704 SDG#: DE207-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.096	J	0.034	0.17		1
01363	Chlordane	57-74-9	12		0.81	3.4		1
01363	p,p-DDD	72-54-8	0.40	U	0.40	0.40		1
01363	p,p-DDE	72-55-9	3.9		0.33	1.7		5
01363	p,p-DDT	50-29-3	38		1.7	8.6		25
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	13		0.33	1.7		5
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.24	U	0.24	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.061	U	0.061	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	19	U	19	19		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	3.5		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	3.1		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.77	J	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,200		29.6	98.0		5
07914	Boron	7440-42-8	5.17		0.353	4.90		1
01650	Calcium	7440-70-2	3,480		12.2	98.0		5
01654	Iron	7439-89-6	21,100		12.8	98.0		5
01656	Lithium	7439-93-2	17.3		3.0	9.8		5
01657	Magnesium	7439-95-4	4,250		2.16	49.0		5
06958	Manganese	7439-96-5	346		0.176	2.45		5
10145	Phosphorus	7723-14-0	523		1.71	49.0		5

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Sample Description: SL-242-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-242-SA6-SS-0.0-0.5

LLI Sample # SW 6354153
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:27

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0704 SDG#: DE207-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	3,110		55.4	245		5
01667	Sodium	7440-23-5	182	J	29.1	490		5
07968	Strontium	7440-24-6	38.2		0.122	2.45		5
06969	Tin	7440-31-5	3.18	J	1.57	49.0		5
06970	Titanium	7440-32-6	1,010		0.0702	0.989		1
10146	Zirconium	7440-67-7	6.60	J	2.25	24.5		5
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.266		0.0732	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.72		0.0791	0.396		2
06126	Barium	7440-39-3	164		0.105	0.396		2
06127	Beryllium	7440-41-7	0.716		0.0158	0.0989		2
06128	Cadmium	7440-43-9	0.550		0.0435	0.0989		2
06131	Chromium	7440-47-3	21.4		0.119	0.396		2
06132	Cobalt	7440-48-4	8.80		0.0198	0.0989		2
06133	Copper	7440-50-8	14.1		0.0791	0.396		2
06135	Lead	7439-92-1	11.0		0.0101	0.198		2
06138	Molybdenum	7439-98-7	0.813		0.0495	0.0989		2
06139	Nickel	7440-02-0	17.6		0.0989	0.396		2
06141	Selenium	7782-49-2	0.118	J	0.0574	0.396		2
06142	Silver	7440-22-4	0.126		0.0140	0.0989		2
06145	Thallium	7440-28-0	0.324		0.0297	0.0989		2
06148	Vanadium	7440-62-2	43.4		0.0218	0.0989		2
06149	Zinc	7440-66-6	153		1.39	7.42		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0193	J	0.0069	0.0982		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.79		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.90		0.50	0.50		1

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Sample Description: SL-242-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-242-SA6-SS-0.0-0.5

LLI Sample # SW 6354153
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:27

Submitted: 07/23/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0704 SDG#: DE207-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLN026	08/16/2011	17:23	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLC026	08/08/2011	01:20	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLC026	08/04/2011	07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLN026	08/03/2011	06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112150006A	08/05/2011	09:19	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	08/31/2011	06:30	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	08/31/2011	06:44	Jamie L Brillhart	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	09/01/2011	11:04	Jamie L Brillhart	25
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112150010A	08/05/2011	19:45	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112150007A	08/03/2011	19:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112150010A	08/03/2011	16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112150006A	08/03/2011	20:00	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112135708002	08/03/2011	03:52	John W Yanzuk II	5
07914	Boron	SW-846 6010B	1	112135708002	08/03/2011	12:14	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708002	08/03/2011	03:52	John W Yanzuk II	5
01654	Iron	SW-846 6010B	1	112135708002	08/03/2011	03:52	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	112135708002	08/03/2011	03:52	John W Yanzuk II	5
01657	Magnesium	SW-846 6010B	1	112135708002	08/03/2011	03:52	John W Yanzuk II	5
06958	Manganese	SW-846 6010B	1	112135708002	08/03/2011	03:52	John W Yanzuk II	5
10145	Phosphorus	SW-846 6010B	1	112135708002	08/03/2011	03:52	John W Yanzuk II	5
01662	Potassium	SW-846 6010B	1	112135708002	08/03/2011	03:52	John W Yanzuk II	5
01667	Sodium	SW-846 6010B	1	112135708002	08/03/2011	03:52	John W Yanzuk II	5
07968	Strontium	SW-846 6010B	1	112135708002	08/03/2011	03:52	John W Yanzuk II	5
06969	Tin	SW-846 6010B	1	112135708002	08/03/2011	03:52	John W Yanzuk II	5
06970	Titanium	SW-846 6010B	1	112155708001	08/04/2011	17:42	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112135708002	08/03/2011	03:52	John W Yanzuk II	5
06124	Antimony	SW-846 6020	1	112131026001A	08/02/2011	11:03	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-242-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-242-SA6-SS-0.0-0.5

LLI Sample # SW 6354153
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:27

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0704 SDG#: DE207-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112131026001A	08/02/2011 11:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112131026001D	08/02/2011 11:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112131026001A	08/02/2011 11:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112131026001A	08/02/2011 11:03	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112131026001A	08/02/2011 11:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112131026001A	08/02/2011 11:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112131026001A	08/02/2011 11:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112131026001A	08/02/2011 11:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112131026001C	08/02/2011 11:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112131026001A	08/02/2011 11:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112131026001B	08/02/2011 11:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112131026001A	08/02/2011 11:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112131026001A	08/02/2011 11:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112131026001A	08/02/2011 11:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112131026001A	08/02/2011 11:57	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112135711002	08/02/2011 07:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708002	08/01/2011 21:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112155708001	08/04/2011 07:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026001	08/01/2011 21:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711002	08/02/2011 02:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621201A	08/04/2011 20:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209284201A	07/31/2011 16:04	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11215243202A	08/08/2011 16:35	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621201A	08/04/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209284201A	07/28/2011 16:15	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039403A	08/02/2011 12:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243202A	08/03/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401A	07/29/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-243-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-243-SA6-SS-0.0-0.5

LLI Sample # SW 6354154
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:52

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0705 SDG#: DE207-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	32	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-243-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-243-SA6-SS-0.0-0.5

LLI Sample # SW 6354154
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:52

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0705 SDG#: DE207-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.73	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	2.0		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	2.2		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	6.8		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	2.6		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	7.3		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Fluoranthene	206-44-0	13		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	23		6.0	18		1
10138	Phenanthrene	85-01-8	5.6		0.67	1.7		1
10138	Pyrene	129-00-0	10		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	0.62	U	0.62	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.091	U	0.091	0.17		1
	Reporting limits were raised for 2,4,5-TP due to interference from the sample matrix.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-243-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-243-SA6-SS-0.0-0.5

LLI Sample # SW 6354154
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:52

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0705 SDG#: DE207-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.0		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.14	U	0.14	0.34		1
01363	p,p-DDE	72-55-9	0.10	U	0.10	0.34		1
01363	p,p-DDT	50-29-3	0.45		0.066	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.066	U	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.066	U	0.066	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.066	U	0.066	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.22	U	0.22	0.34		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.12	U	0.12	0.34		1
01363	Toxaphene	8001-35-2	4.2	U	4.2	6.6		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	4.3		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	2.4		0.33	1.7		1
10225	PCB-1260	11096-82-5	1.5	J	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,100		5.97	19.7		1
07914	Boron	7440-42-8	3.36	J	0.355	4.94		1
01650	Calcium	7440-70-2	2,710		2.47	19.7		1
01654	Iron	7439-89-6	19,500		2.58	19.7		1
01656	Lithium	7439-93-2	23.5		0.61	2.0		1
01657	Magnesium	7439-95-4	4,170		0.434	9.87		1
06958	Manganese	7439-96-5	295		0.0355	0.494		1
10145	Phosphorus	7723-14-0	424		0.346	9.87		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-243-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-243-SA6-SS-0.0-0.5

LLI Sample # SW 6354154
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:52

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0705 SDG#: DE207-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	3,690		11.2	49.4		1
01667	Sodium	7440-23-5	67.3	J	5.88	98.7		1
07968	Strontium	7440-24-6	20.6		0.0247	0.494		1
06969	Tin	7440-31-5	2.72	J	0.316	9.87		1
06970	Titanium	7440-32-6	1,030		0.0701	0.987		1
10146	Zirconium	7440-67-7	2.90	J	0.454	4.94		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.252		0.0738	0.199		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.67		0.0798	0.399		2
06126	Barium	7440-39-3	148		0.106	0.399		2
06127	Beryllium	7440-41-7	0.923		0.0160	0.0997		2
06128	Cadmium	7440-43-9	0.311		0.0439	0.0997		2
06131	Chromium	7440-47-3	27.6		0.120	0.399		2
06132	Cobalt	7440-48-4	8.40		0.0199	0.0997		2
06133	Copper	7440-50-8	15.2		0.0798	0.399		2
06135	Lead	7439-92-1	17.2		0.0102	0.199		2
06138	Molybdenum	7439-98-7	0.883		0.0499	0.0997		2
06139	Nickel	7440-02-0	22.0		0.0997	0.399		2
06141	Selenium	7782-49-2	0.192	J	0.0578	0.399		2
06142	Silver	7440-22-4	0.234		0.0142	0.0997		2
06145	Thallium	7440-28-0	0.357		0.0299	0.0997		2
06148	Vanadium	7440-62-2	45.1		0.0219	0.0997		2
06149	Zinc	7440-66-6	88.2		0.558	2.99		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0156	J	0.0069	0.0987		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.34		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.71		0.50	0.50		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-243-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-243-SA6-SS-0.0-0.5

LLI Sample # SW 6354154
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:52

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0705 SDG#: DE207-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLN026	08/16/2011 17:48	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLC026	08/08/2011 01:53	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLC026	08/04/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLN026	08/03/2011 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112150006A	08/05/2011 09:46	Anita M Dale	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112140035A	08/04/2011 20:31	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	08/31/2011 02:03	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112150010A	08/05/2011 20:04	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112150007A	08/03/2011 19:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112150010A	08/03/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112150006A	08/03/2011 20:00	Elaine F Stoltzfus	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112140035A	08/03/2011 09:30	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112135708002	08/03/2011 03:56	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112135708002	08/03/2011 12:18	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708002	08/03/2011 03:56	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112135708002	08/03/2011 03:56	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112135708002	08/03/2011 03:56	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112135708002	08/03/2011 03:56	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112135708002	08/03/2011 03:56	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112135708002	08/03/2011 03:56	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112135708002	08/03/2011 03:56	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112135708002	08/03/2011 03:56	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112135708002	08/03/2011 03:56	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112135708002	08/03/2011 03:56	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112155708001	08/04/2011 17:46	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-243-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-243-SA6-SS-0.0-0.5

LLI Sample # SW 6354154
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:52

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0705 SDG#: DE207-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112135708002	08/03/2011 03:56	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112131026001A	08/02/2011 11:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112131026001A	08/02/2011 11:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112131026001D	08/02/2011 11:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112131026001A	08/02/2011 11:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112131026001A	08/02/2011 11:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112131026001A	08/02/2011 11:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112131026001A	08/02/2011 11:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112131026001A	08/02/2011 11:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112131026001A	08/02/2011 11:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112131026001C	08/02/2011 11:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112131026001A	08/02/2011 11:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112131026001B	08/02/2011 11:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112131026001A	08/02/2011 11:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112131026001A	08/02/2011 11:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112131026001A	08/02/2011 11:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112131026001A	08/02/2011 11:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112135711002	08/02/2011 07:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708002	08/01/2011 21:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112155708001	08/04/2011 07:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026001	08/01/2011 21:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711002	08/02/2011 02:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621201A	08/04/2011 20:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209284201A	08/01/2011 21:04	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11215243202A	08/08/2011 17:04	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621201A	08/04/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209284201A	07/28/2011 16:15	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039403A	08/02/2011 12:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243202A	08/03/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401A	07/29/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-244-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-244-SA6-SS-0.0-0.5

LLI Sample # SW 6354155
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:08

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0706 SDG#: DE207-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)pyrene	50-32-8	19	J	17	170		1
04688	Benzo(b)fluoranthene	205-99-2	25	J	17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	20	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Chrysene	218-01-9	18	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Fluoranthene	206-44-0	18	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-244-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-244-SA6-SS-0.0-0.5

LLI Sample # SW 6354155
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:08

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0706 SDG#: DE207-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	21	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	1.0	J	0.34	1.7		1
10138	Anthracene	120-12-7	0.79	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	3.9		0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	3.5		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	37		6.1	18		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.7		0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	18	J	6.1	18		1
10138	Phenanthrene	85-01-8	6.3		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	13	U	13	13		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1

Reporting limits were raised for 2,4-DB due to interference from the sample matrix.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-244-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-244-SA6-SS-0.0-0.5

LLI Sample # SW 6354155
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:08

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0706 SDG#: DE207-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.036	J	0.034	0.17		1
01363	Chlordane	57-74-9	5.2		0.81	3.4		1
01363	p,p-DDD	72-54-8	0.11	U	0.11	0.34		1
01363	p,p-DDE	72-55-9	9.1		0.67	3.4		10
01363	p,p-DDT	50-29-3	9.7		0.67	3.4		10
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	2.1		0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.18	U	0.18	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.14	U	0.14	0.34		1
01363	Endrin Ketone	53494-70-5	0.20	U	0.20	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.081	U	0.081	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.17	U	0.17	0.34		1
01363	Toxaphene	8001-35-2	13	U	13	13		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	14		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	6.2		0.33	1.7		1
10225	PCB-1260	11096-82-5	4.5		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,000		5.98	19.8		1
07914	Boron	7440-42-8	3.33	J	0.356	4.94		1
01650	Calcium	7440-70-2	2,590		2.47	19.8		1
01654	Iron	7439-89-6	19,000		2.58	19.8		1
01656	Lithium	7439-93-2	22.3		0.61	2.0		1
01657	Magnesium	7439-95-4	4,310		0.435	9.89		1
06958	Manganese	7439-96-5	332		0.0356	0.494		1
10145	Phosphorus	7723-14-0	474		0.346	9.89		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-244-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-244-SA6-SS-0.0-0.5

LLI Sample # SW 6354155
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:08

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0706 SDG#: DE207-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	3,720		11.2	49.4		1
01667	Sodium	7440-23-5	68.2	J	5.88	98.9		1
07968	Strontium	7440-24-6	21.1		0.0247	0.494		1
06969	Tin	7440-31-5	2.79	J	0.316	9.89		1
06970	Titanium	7440-32-6	1,010		0.0682	0.961		1
10146	Zirconium	7440-67-7	2.89	J	0.455	4.94		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.197		0.0725	0.196		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.75		0.0783	0.392		2
06126	Barium	7440-39-3	128		0.104	0.392		2
06127	Beryllium	7440-41-7	0.708		0.0157	0.0979		2
06128	Cadmium	7440-43-9	0.551		0.0431	0.0979		2
06131	Chromium	7440-47-3	21.7		0.118	0.392		2
06132	Cobalt	7440-48-4	6.90		0.0196	0.0979		2
06133	Copper	7440-50-8	14.7		0.0783	0.392		2
06135	Lead	7439-92-1	26.8		0.010	0.196		2
06138	Molybdenum	7439-98-7	1.10		0.0490	0.0979		2
06139	Nickel	7440-02-0	17.8		0.0979	0.392		2
06141	Selenium	7782-49-2	0.149	J	0.0568	0.392		2
06142	Silver	7440-22-4	0.431		0.0139	0.0979		2
06145	Thallium	7440-28-0	0.297		0.0294	0.0979		2
06148	Vanadium	7440-62-2	38.5		0.0215	0.0979		2
06149	Zinc	7440-66-6	154		0.548	2.94		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.320		0.0069	0.0979		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.67	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.38		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.85		0.50	0.50		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-244-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-244-SA6-SS-0.0-0.5

LLI Sample # SW 6354155
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:08

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0706 SDG#: DE207-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLN026	08/17/2011 06:43	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLC026	08/08/2011 02:27	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLC026	08/04/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLN026	08/03/2011 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112150006A	08/05/2011 10:14	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	08/31/2011 06:59	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	08/31/2011 07:14	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112150010A	08/05/2011 20:22	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112150007A	08/03/2011 19:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112150010A	08/03/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112150006A	08/03/2011 20:00	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112135708002	08/03/2011 04:01	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112135708002	08/03/2011 12:21	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708002	08/03/2011 04:01	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112135708002	08/03/2011 04:01	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112135708002	08/03/2011 04:01	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112135708002	08/03/2011 04:01	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112135708002	08/03/2011 04:01	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112135708002	08/03/2011 04:01	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112135708002	08/03/2011 04:01	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112135708002	08/03/2011 04:01	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112135708002	08/03/2011 04:01	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112135708002	08/03/2011 04:01	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112155708001	08/04/2011 17:49	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112135708002	08/03/2011 04:01	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112131026001A	08/02/2011 11:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112131026001A	08/02/2011 11:10	Choon Y Tian	2

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Analysis Report

Sample Description: SL-244-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-244-SA6-SS-0.0-0.5

LLI Sample # SW 6354155
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:08

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0706 SDG#: DE207-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112131026001D	08/02/2011 11:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112131026001A	08/02/2011 11:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112131026001A	08/02/2011 11:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112131026001A	08/02/2011 11:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112131026001A	08/02/2011 11:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112131026001A	08/02/2011 11:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112131026001A	08/02/2011 11:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112131026001C	08/02/2011 11:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112131026001A	08/02/2011 11:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112131026001B	08/02/2011 11:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112131026001A	08/02/2011 11:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112131026001A	08/02/2011 11:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112131026001A	08/02/2011 11:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112131026001A	08/02/2011 11:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112135711002	08/02/2011 07:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708002	08/01/2011 21:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112155708001	08/04/2011 07:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026001	08/01/2011 21:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711002	08/02/2011 02:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621201A	08/04/2011 21:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209284201A	07/31/2011 16:27	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11215243202A	08/08/2011 17:18	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621201A	08/04/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209284201A	07/28/2011 16:15	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039403A	08/02/2011 12:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243202A	08/03/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401A	07/29/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-307-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA6-SS-0.0-0.5

LLI Sample # SW 6354156
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:12

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0707 SDG#: DE207-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	150	J	17	340		1
04688	Fluoranthene	206-44-0	42	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-307-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA6-SS-0.0-0.5

LLI Sample # SW 6354156
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:12

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0707 SDG#: DE207-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenanthrene	85-01-8	24	J	17	170		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	31	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.9		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	2.8		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	7.3	U	7.3	7.3		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

Reporting limits were raised for 2,4-DB due to interference from the sample matrix.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-307-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA6-SS-0.0-0.5

LLI Sample # SW 6354156
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:12

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0707 SDG#: DE207-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	3.3	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	2.9		0.33	1.7		5
01363	p,p-DDT	50-29-3	10	U	10	10		5
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	1.9	U	1.9	1.9		5
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	3.1	U	3.1	3.1		5
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.56	U	0.56	0.56		1
01363	Endrin Aldehyde	7421-93-4	0.94	U	0.94	0.94		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.47	U	0.47	0.47		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	30	U	30	30		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	3.5		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	26		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,700		6.00	19.8		1
07914	Boron	7440-42-8	3.22	J	0.357	4.96		1
01650	Calcium	7440-70-2	2,440		2.48	19.8		1
01654	Iron	7439-89-6	18,800		2.59	19.8		1
01656	Lithium	7439-93-2	21.9		0.62	2.0		1
01657	Magnesium	7439-95-4	4,320		0.437	9.92		1
06958	Manganese	7439-96-5	314		0.0357	0.496		1
10145	Phosphorus	7723-14-0	404		0.347	9.92		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-307-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA6-SS-0.0-0.5

LLI Sample # SW 6354156
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:12

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0707 SDG#: DE207-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	3,260		11.2	49.6		1
01667	Sodium	7440-23-5	69.8	J	5.90	99.2		1
07968	Strontium	7440-24-6	18.3		0.0248	0.496		1
06969	Tin	7440-31-5	2.64	J	0.318	9.92		1
06970	Titanium	7440-32-6	1,010		0.0684	0.964		1
10146	Zirconium	7440-67-7	2.40	J	0.456	4.96		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.190	J	0.0720	0.195		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.63		0.0779	0.389		2
06126	Barium	7440-39-3	133		0.103	0.389		2
06127	Beryllium	7440-41-7	0.786		0.0156	0.0973		2
06128	Cadmium	7440-43-9	0.303		0.0428	0.0973		2
06131	Chromium	7440-47-3	25.6		0.117	0.389		2
06132	Cobalt	7440-48-4	7.41		0.0195	0.0973		2
06133	Copper	7440-50-8	13.5		0.0779	0.389		2
06135	Lead	7439-92-1	34.2		0.0099	0.195		2
06138	Molybdenum	7439-98-7	0.775		0.0487	0.0973		2
06139	Nickel	7440-02-0	19.4		0.0973	0.389		2
06141	Selenium	7782-49-2	0.158	J	0.0564	0.389		2
06142	Silver	7440-22-4	0.200		0.0138	0.0973		2
06145	Thallium	7440-28-0	0.330		0.0292	0.0973		2
06148	Vanadium	7440-62-2	43.3		0.0214	0.0973		2
06149	Zinc	7440-66-6	94.2		0.545	2.92		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0067	U	0.0067	0.0960		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.49		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.2		0.50	0.50		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-307-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA6-SS-0.0-0.5

LLI Sample # SW 6354156
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:12

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0707 SDG#: DE207-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLN026	08/17/2011 07:07	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLC026	08/08/2011 02:59	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLC026	08/04/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLN026	08/03/2011 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112150006A	08/05/2011 10:42	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	08/31/2011 07:29	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	08/31/2011 07:44	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112150010A	08/05/2011 20:41	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112150007A	08/03/2011 19:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112150010A	08/03/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112150006A	08/03/2011 20:00	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112135708002	08/03/2011 04:05	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112135708002	08/03/2011 12:25	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708002	08/03/2011 04:05	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112135708002	08/03/2011 04:05	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112135708002	08/03/2011 04:05	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112135708002	08/03/2011 04:05	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112135708002	08/03/2011 04:05	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112135708002	08/03/2011 04:05	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112135708002	08/03/2011 04:05	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112135708002	08/03/2011 04:05	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112135708002	08/03/2011 04:05	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112135708002	08/03/2011 04:05	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112155708001	08/04/2011 17:53	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112135708002	08/03/2011 04:05	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112131026001A	08/02/2011 11:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112131026001A	08/02/2011 11:13	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-307-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA6-SS-0.0-0.5

LLI Sample # SW 6354156
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:12

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0707 SDG#: DE207-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112131026001D	08/02/2011 11:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112131026001A	08/02/2011 11:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112131026001A	08/02/2011 11:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112131026001A	08/02/2011 11:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112131026001A	08/02/2011 11:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112131026001A	08/02/2011 11:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112131026001A	08/02/2011 11:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112131026001C	08/02/2011 11:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112131026001A	08/02/2011 11:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112131026001B	08/02/2011 11:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112131026001A	08/02/2011 11:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112131026001A	08/02/2011 11:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112131026001A	08/02/2011 11:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112131026001A	08/02/2011 11:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112135711002	08/02/2011 07:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708002	08/01/2011 21:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112155708001	08/04/2011 07:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026001	08/01/2011 21:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711002	08/02/2011 02:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621201A	08/04/2011 21:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11209284201A	08/06/2011 10:15	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11215243202A	08/08/2011 17:23	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621201A	08/04/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11209284201A	08/04/2011 15:20	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039403A	08/02/2011 12:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243202A	08/03/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401A	07/29/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-308-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA6-SS-0.0-0.5

LLI Sample # SW 6354157
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 13:54

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0708 SDG#: DE207-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: SL-308-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA6-SS-0.0-0.5

LLI Sample # SW 6354157
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 13:54

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0708 SDG#: DE207-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.86	J	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.83	J	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	2.6		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.95	J	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	3.6		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	J	6.1	18		1
10138	Fluoranthene	206-44-0	4.9		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	2.5		0.68	1.7		1
10138	Pyrene	129-00-0	3.7		0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	1.5	J	0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	78	U	78	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1

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Sample Description: SL-308-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA6-SS-0.0-0.5

LLI Sample # SW 6354157
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 13:54

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0708 SDG#: DE207-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	1.4	J	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.27	J	0.067	0.35		1
01363	p,p-DDT	50-29-3	0.25	J	0.067	0.35		1
01363	Delta BHC	319-86-8	0.054	J	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.15	U	0.15	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.092	U	0.092	0.35		1
01363	Toxaphene	8001-35-2	2.4	J	2.2	6.7		1
Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.5	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	2.1		0.34	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,300		6.12	20.2		1
07914	Boron	7440-42-8	5.97		0.364	5.06		1
01650	Calcium	7440-70-2	2,190		2.53	20.2		1
01654	Iron	7439-89-6	17,400		2.64	20.2		1
01656	Lithium	7439-93-2	21.7		0.63	2.0		1
01657	Magnesium	7439-95-4	3,950		0.445	10.1		1
06958	Manganese	7439-96-5	279		0.0364	0.506		1
10145	Phosphorus	7723-14-0	321		0.354	10.1		1
01662	Potassium	7440-09-7	2,990		11.4	50.6		1
01667	Sodium	7440-23-5	74.0	J	6.02	101		1
07968	Strontium	7440-24-6	16.9		0.0253	0.506		1
06969	Tin	7440-31-5	2.33	J	0.324	10.1		1

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Sample Description: SL-308-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA6-SS-0.0-0.5

LLI Sample # SW 6354157
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 13:54

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0708 SDG#: DE207-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06970	Titanium	7440-32-6	919		0.0691	0.974		1
10146	Zirconium	7440-67-7	2.21	J	0.466	5.06		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.212		0.0742	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.06		0.0802	0.401		2
06126	Barium	7440-39-3	125		0.106	0.401		2
06127	Beryllium	7440-41-7	0.761		0.0160	0.100		2
06128	Cadmium	7440-43-9	0.189		0.0441	0.100		2
06131	Chromium	7440-47-3	25.9		0.120	0.401		2
06132	Cobalt	7440-48-4	7.50		0.0200	0.100		2
06133	Copper	7440-50-8	12.3		0.0802	0.401		2
06135	Lead	7439-92-1	8.51		0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.796		0.0501	0.100		2
06139	Nickel	7440-02-0	19.0		0.100	0.401		2
06141	Selenium	7782-49-2	0.211	J	0.0581	0.401		2
06142	Silver	7440-22-4	0.0522	J	0.0142	0.100		2
06145	Thallium	7440-28-0	0.328		0.0301	0.100		2
06148	Vanadium	7440-62-2	41.2		0.0221	0.100		2
06149	Zinc	7440-66-6	72.9		0.561	3.01		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0090	J	0.0070	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.07		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-308-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA6-SS-0.0-0.5

LLI Sample # SW 6354157
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 13:54

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E0708 SDG#: DE207-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLN026	08/17/2011 07:32	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLC026	08/08/2011 03:32	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLC026	08/04/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLN026	08/03/2011 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112150006A	08/05/2011 11:09	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	08/31/2011 02:17	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112150010A	08/05/2011 20:59	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112150007A	08/03/2011 19:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112150010A	08/03/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112150006A	08/03/2011 20:00	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112135708002	08/03/2011 04:09	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112135708002	08/03/2011 12:29	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708002	08/03/2011 04:09	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112135708002	08/03/2011 04:09	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112135708002	08/03/2011 04:09	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112135708002	08/03/2011 04:09	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112135708002	08/03/2011 04:09	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112135708002	08/03/2011 04:09	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112135708002	08/03/2011 04:09	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112135708002	08/03/2011 04:09	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112135708002	08/03/2011 04:09	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112135708002	08/03/2011 04:09	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112155708001	08/04/2011 17:56	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112135708002	08/03/2011 04:09	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112131026001A	08/02/2011 11:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112131026001A	08/02/2011 11:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112131026001D	08/02/2011 11:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112131026001A	08/02/2011 11:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112131026001A	08/02/2011 11:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112131026001A	08/02/2011 11:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112131026001A	08/02/2011 11:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112131026001A	08/02/2011 11:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112131026001A	08/02/2011 11:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112131026001C	08/02/2011 11:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112131026001A	08/02/2011 11:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112131026001B	08/02/2011 11:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112131026001A	08/02/2011 11:16	Choon Y Tian	2

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Sample Description: SL-308-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA6-SS-0.0-0.5

LLI Sample # SW 6354157
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 13:54

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E0708 SDG#: DE207-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	112131026001A	08/02/2011 11:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112131026001A	08/02/2011 11:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112131026001A	08/02/2011 11:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112135711002	08/02/2011 07:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708002	08/01/2011 21:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112155708001	08/04/2011 07:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026001	08/01/2011 21:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711002	08/02/2011 02:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621201A	08/04/2011 22:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209284201A	07/31/2011 17:13	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11215243202A	08/08/2011 17:47	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621201A	08/04/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209284201A	07/28/2011 16:15	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039403A	08/02/2011 12:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243202A	08/03/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401A	07/29/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-309-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-309-SA6-SS-0.0-0.5

LLI Sample # SW 6354158
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:35

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0709 SDG#: DE207-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1

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SSFL Area IV Collocated Soil Sampling
SL-309-SA6-SS-0.0-0.5

LLI Sample # SW 6354158
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:35

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0709 SDG#: DE207-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.50	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.3	J	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	4.3		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.85	J	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.6	J	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	5.7		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	9.2		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	4.3		0.67	1.7		1
10138	Pyrene	129-00-0	7.2		0.67	1.7		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	14	U	14	14		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	160	U	160	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

Reporting limits were raised for MCPA and 2,4-DB due to interference from the sample matrix.

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Sample Description: SL-309-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-309-SA6-SS-0.0-0.5

LLI Sample # SW 6354158
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:35

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0709 SDG#: DE207-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	2.4	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	1.8		0.067	0.34		1
01363	p,p-DDT	50-29-3	2.0		0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.21	U	0.21	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.18	U	0.18	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.20	U	0.20	0.34		1
01363	Endrin Ketone	53494-70-5	0.093	J	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.061	U	0.061	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	6.6	U	6.6	6.7		1
Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	8.8		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	4.8		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,300		5.93	19.6		1
07914	Boron	7440-42-8	4.10	J	0.353	4.90		1
01650	Calcium	7440-70-2	3,000		2.45	19.6		1
01654	Iron	7439-89-6	19,900		2.56	19.6		1
01656	Lithium	7439-93-2	25.0		0.61	2.0		1
01657	Magnesium	7439-95-4	4,550		0.431	9.80		1
06958	Manganese	7439-96-5	350		0.0353	0.490		1
10145	Phosphorus	7723-14-0	549		0.343	9.80		1
01662	Potassium	7440-09-7	4,110		11.1	49.0		1
01667	Sodium	7440-23-5	73.1	J	5.83	98.0		1
07968	Strontium	7440-24-6	24.1		0.0245	0.490		1

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Sample Description: SL-309-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-309-SA6-SS-0.0-0.5

LLI Sample # SW 6354158
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:35

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0709 SDG#: DE207-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	2.79	J	0.314	9.80		1
06970	Titanium	7440-32-6	1,060		0.0702	0.989		1
10146	Zirconium	7440-67-7	2.87	J	0.451	4.90		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.256		0.0718	0.194		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.78		0.0776	0.388		2
06126	Barium	7440-39-3	150		0.103	0.388		2
06127	Beryllium	7440-41-7	0.776		0.0155	0.0970		2
06128	Cadmium	7440-43-9	0.380		0.0427	0.0970		2
06131	Chromium	7440-47-3	23.8		0.116	0.388		2
06132	Cobalt	7440-48-4	7.49		0.0194	0.0970		2
06133	Copper	7440-50-8	14.7		0.0776	0.388		2
06135	Lead	7439-92-1	22.6		0.0099	0.194		2
06138	Molybdenum	7439-98-7	0.864		0.0485	0.0970		2
06139	Nickel	7440-02-0	19.7		0.0970	0.388		2
06141	Selenium	7782-49-2	0.193	J	0.0563	0.388		2
06142	Silver	7440-22-4	0.341		0.0138	0.0970		2
06145	Thallium	7440-28-0	0.336		0.0291	0.0970		2
06148	Vanadium	7440-62-2	41.5		0.0213	0.0970		2
06149	Zinc	7440-66-6	99.3		0.543	2.91		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0239	J	0.0069	0.0983		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1		0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.47		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.91		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-309-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-309-SA6-SS-0.0-0.5

LLI Sample # SW 6354158
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

E0709 SDG#: DE207-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLN026	08/17/2011 07:57	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLC026	08/08/2011 04:06	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLC026	08/04/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLN026	08/03/2011 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112150006A	08/05/2011 11:37	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	08/31/2011 02:32	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112150010A	08/05/2011 21:18	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112150007A	08/03/2011 19:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112150010A	08/03/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112150006A	08/03/2011 20:00	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112135708002	08/03/2011 04:14	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112135708002	08/03/2011 12:33	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708002	08/03/2011 04:14	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112135708002	08/03/2011 04:14	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112135708002	08/03/2011 04:14	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112135708002	08/03/2011 04:14	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112135708002	08/03/2011 04:14	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112135708002	08/03/2011 04:14	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112135708002	08/03/2011 04:14	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112135708002	08/03/2011 04:14	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112135708002	08/03/2011 04:14	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112135708002	08/03/2011 04:14	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112155708001	08/04/2011 18:00	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112135708002	08/03/2011 04:14	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112131026001A	08/02/2011 11:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112131026001A	08/02/2011 11:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112131026001D	08/02/2011 11:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112131026001A	08/02/2011 11:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112131026001A	08/02/2011 11:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112131026001A	08/02/2011 11:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112131026001A	08/02/2011 11:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112131026001A	08/02/2011 11:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112131026001A	08/02/2011 11:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112131026001C	08/02/2011 11:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112131026001A	08/02/2011 11:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112131026001B	08/02/2011 11:19	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-309-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-309-SA6-SS-0.0-0.5

LLI Sample # SW 6354158
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:35

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0709 SDG#: DE207-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112131026001A	08/02/2011 11:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112131026001A	08/02/2011 11:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112131026001A	08/02/2011 11:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112131026001A	08/02/2011 11:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112135711002	08/02/2011 07:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708002	08/01/2011 21:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112155708001	08/04/2011 07:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026001	08/01/2011 21:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711002	08/02/2011 02:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621201A	08/04/2011 22:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209284201A	07/31/2011 17:36	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11215243202A	08/08/2011 18:02	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621201A	08/04/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209284201A	07/28/2011 16:15	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039403A	08/02/2011 12:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243202A	08/03/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401A	07/29/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-082-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA6-SB-4.0-5.0

LLI Sample # SW 6354159
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 10:00

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0710 SDG#: DE207-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	350		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-082-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA6-SB-4.0-5.0

LLI Sample # SW 6354159
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 10:00

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0710 SDG#: DE207-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.8		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.8		5
10138	Anthracene	120-12-7	1.8	U	1.8	8.8		5
10138	Benzo(a)anthracene	56-55-3	8.3	J	3.5	8.8		5
10138	Benzo(a)pyrene	50-32-8	9.5		3.5	8.8		5
10138	Benzo(b)fluoranthene	205-99-2	15		3.5	8.8		5
10138	Benzo(g,h,i)perylene	191-24-2	4.3	J	3.5	8.8		5
10138	Benzo(k)fluoranthene	207-08-9	6.9	J	3.5	8.8		5
10138	Chrysene	218-01-9	12		1.8	8.8		5
10138	Dibenz(a,h)anthracene	53-70-3	3.5	U	3.5	8.8		5
10138	Fluoranthene	206-44-0	11		3.5	8.8		5
10138	Fluorene	86-73-7	3.5	U	3.5	8.8		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.5	U	3.5	8.8		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.8		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.8		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.8		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.8		5
10138	Phenanthrene	85-01-8	3.5	U	3.5	8.8		5
10138	Pyrene	129-00-0	13		3.5	8.8		5
	Reporting limits were raised due to interference from the sample matrix.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		23.36
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.3		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	11	U	11	35		10
10225	Aroclor 5442	12642-23-8	11	U	11	35		10
10225	Aroclor 5460	11126-42-4	110		11	35		10
10225	PCB-1016	12674-11-2	3.5	U	3.5	18		10

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Sample Description: SL-082-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA6-SB-4.0-5.0

LLI Sample # SW 6354159
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 10:00

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0710 SDG#: DE207-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1221	11104-28-2	3.5	U	3.5	18		10
10225	PCB-1232	11141-16-5	3.5	U	3.5	18		10
10225	PCB-1242	53469-21-9	3.5	U	3.5	18		10
10225	PCB-1248	12672-29-6	3.5	U	3.5	18		10
10225	PCB-1254	11097-69-1	18	J	3.5	18		10
10225	PCB-1260	11096-82-5	4.1	U	4.1	18		10
10225	PCB-1262	37324-23-5	3.5	U	3.5	18		10
10225	PCB-1268	11100-14-4	3.5	U	3.5	18		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.4		5
10199	EFH (C15-C20)	n.a.	2.1	U	2.1	6.4		5
10199	EFH (C21-C30)	n.a.	15		2.1	6.4		5
10199	EFH (C30 - C40)	n.a.	110		2.1	6.4		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.4		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,200		6.29	20.8		1
07914	Boron	7440-42-8	1.73	J	0.374	5.20		1
01650	Calcium	7440-70-2	3,360		2.60	20.8		1
01654	Iron	7439-89-6	18,500		2.71	20.8		1
01656	Lithium	7439-93-2	24.6		0.64	2.1		1
01657	Magnesium	7439-95-4	4,950		0.457	10.4		1
06958	Manganese	7439-96-5	259		0.0374	0.520		1
10145	Phosphorus	7723-14-0	324		0.364	10.4		1
01662	Potassium	7440-09-7	2,270		11.7	52.0		1
01667	Sodium	7440-23-5	136		6.19	104		1

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Sample Description: SL-082-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA6-SB-4.0-5.0

LLI Sample # SW 6354159
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 10:00

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0710 SDG#: DE207-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07968	Strontium	7440-24-6	14.4		0.0260	0.520		1
06969	Tin	7440-31-5	2.33	J	0.333	10.4		1
06970	Titanium	7440-32-6	1,120		0.0753	1.06		1
10146	Zirconium	7440-67-7	2.38	J	0.478	5.20		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.132	J	0.0755	0.204		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.48		0.0816	0.408		2
06126	Barium	7440-39-3	82.9		0.108	0.408		2
06127	Beryllium	7440-41-7	0.629		0.0163	0.102		2
06128	Cadmium	7440-43-9	0.0569	J	0.0449	0.102		2
06131	Chromium	7440-47-3	20.0		0.122	0.408		2
06132	Cobalt	7440-48-4	5.97		0.0204	0.102		2
06133	Copper	7440-50-8	9.26		0.0816	0.408		2
06135	Lead	7439-92-1	5.24		0.0104	0.204		2
06138	Molybdenum	7439-98-7	0.591		0.0510	0.102		2
06139	Nickel	7440-02-0	12.6		0.102	0.408		2
06141	Selenium	7782-49-2	0.0885	J	0.0591	0.408		2
06142	Silver	7440-22-4	0.0359	J	0.0145	0.102		2
06145	Thallium	7440-28-0	0.326		0.0306	0.102		2
06148	Vanadium	7440-62-2	38.5		0.0224	0.102		2
06149	Zinc	7440-66-6	61.4		0.571	3.06		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.84	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.63	J	0.21	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.63		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-082-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA6-SB-4.0-5.0

LLI Sample # SW 6354159
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 10:00

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0710 SDG#: DE207-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-082-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201120425002	07/23/2011	13:24	Christopher D Meeks	n.a.
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLN026	08/17/2011	08:22	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLC026	08/08/2011	04:38	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLC026	08/04/2011	07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLN026	08/03/2011	06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11206A34A	07/25/2011	23:28	Marie D John	23.36
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120425002	07/23/2011	13:23	Christopher D Meeks	n.a.
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112140035A	08/04/2011	20:40	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112150010A	08/08/2011	16:05	Sarah M Snyder	10
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112150010A	08/03/2011	16:40	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112140035A	08/03/2011	09:30	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112080025A	07/28/2011	23:38	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112060001A	07/25/2011	14:54	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112140032A	08/05/2011	00:55	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112150001A	08/04/2011	13:57	Tracy A Cole	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112150001A	08/03/2011	09:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112140032A	08/03/2011	06:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112080025A	07/28/2011	15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112060001A	07/25/2011	12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112135708002	08/03/2011	04:18	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112135708002	08/03/2011	12:36	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708002	08/03/2011	04:18	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112135708002	08/03/2011	04:18	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-082-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA6-SB-4.0-5.0

LLI Sample # SW 6354159
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 10:00

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0710 SDG#: DE207-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	112135708002	08/03/2011 04:18	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112135708002	08/03/2011 04:18	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112135708002	08/03/2011 04:18	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112135708002	08/03/2011 04:18	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112135708002	08/03/2011 04:18	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112135708002	08/03/2011 04:18	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112135708002	08/03/2011 04:18	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112135708002	08/03/2011 04:18	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112155708001	08/04/2011 18:04	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112135708002	08/03/2011 04:18	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112131026001A	08/02/2011 11:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112131026001A	08/02/2011 11:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112131026001D	08/02/2011 11:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112131026001A	08/02/2011 11:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112131026001A	08/02/2011 11:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112131026001A	08/02/2011 11:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112131026001A	08/02/2011 11:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112131026001A	08/02/2011 11:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112131026001A	08/02/2011 11:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112131026001C	08/02/2011 11:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112131026001A	08/02/2011 11:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112131026001B	08/02/2011 11:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112131026001A	08/02/2011 11:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112131026001A	08/02/2011 11:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112131026001A	08/02/2011 11:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112131026001A	08/02/2011 11:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112135711002	08/02/2011 07:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708002	08/01/2011 21:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112155708001	08/04/2011 07:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026001	08/01/2011 21:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711002	08/02/2011 02:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621201A	08/04/2011 22:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209284201A	07/31/2011 17:59	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11215243202A	08/08/2011 18:16	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621201A	08/04/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209284201A	07/28/2011 16:15	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039403B	08/02/2011 12:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243202A	08/03/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401A	07/29/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-082-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA6-SB-9.0-10.0

LLI Sample # SW 6354160
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 10:10

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0711 SDG#: DE207-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SL-082-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA6-SB-9.0-10.0

LLI Sample # SW 6354160
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 10:10

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0711 SDG#: DE207-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.04
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	12		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-082-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA6-SB-9.0-10.0

LLI Sample # SW 6354160
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 10:10

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0711 SDG#: DE207-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	2.7		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	5.8		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,100		6.41	21.2		1
07914	Boron	7440-42-8	1.35	J	0.382	5.30		1
01650	Calcium	7440-70-2	3,530		2.65	21.2		1
01654	Iron	7439-89-6	20,800		2.77	21.2		1
01656	Lithium	7439-93-2	27.7		0.66	2.1		1
01657	Magnesium	7439-95-4	5,670		0.466	10.6		1
06958	Manganese	7439-96-5	287		0.0382	0.530		1
10145	Phosphorus	7723-14-0	406		0.371	10.6		1
01662	Potassium	7440-09-7	2,880		12.0	53.0		1
01667	Sodium	7440-23-5	174		6.31	106		1
07968	Strontium	7440-24-6	14.7		0.0265	0.530		1
06969	Tin	7440-31-5	2.78	J	0.339	10.6		1
06970	Titanium	7440-32-6	1,150		0.0753	1.06		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-082-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA6-SB-9.0-10.0

LLI Sample # SW 6354160
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 10:10

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0711 SDG#: DE207-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	2.24	J	0.488	5.30		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.166	J	0.0792	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.09		0.0856	0.428		2
06126	Barium	7440-39-3	89.4		0.113	0.428		2
06127	Beryllium	7440-41-7	0.677		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.0890	J	0.0471	0.107		2
06131	Chromium	7440-47-3	21.9		0.128	0.428		2
06132	Cobalt	7440-48-4	6.41		0.0214	0.107		2
06133	Copper	7440-50-8	9.77		0.0856	0.428		2
06135	Lead	7439-92-1	4.98		0.0109	0.214		2
06138	Molybdenum	7439-98-7	0.570		0.0535	0.107		2
06139	Nickel	7440-02-0	14.0		0.107	0.428		2
06141	Selenium	7782-49-2	0.0858	J	0.0621	0.428		2
06142	Silver	7440-22-4	0.0232	J	0.0152	0.107		2
06145	Thallium	7440-28-0	0.361		0.0321	0.107		2
06148	Vanadium	7440-62-2	42.6		0.0235	0.107		2
06149	Zinc	7440-66-6	72.3		0.599	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0077	U	0.0077	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.57		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-082-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA6-SB-9.0-10.0

LLI Sample # SW 6354160
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 10:10

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0711 SDG#: DE207-11

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-082-SA6-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLN026	08/17/2011 08:47	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLC026	08/08/2011 15:24	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLC026	08/04/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLN026	08/03/2011 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11206A34A	07/25/2011 20:26	Marie D John	24.04
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120425002	07/23/2011 13:25	Christopher D Meeks	n.a.
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112140035A	08/04/2011 20:46	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112150010A	08/08/2011 15:47	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112150010A	08/03/2011 16:40	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112140035A	08/03/2011 09:30	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112080025A	07/28/2011 23:53	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112060001A	07/25/2011 15:07	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112140032A	08/04/2011 13:52	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112150001A	08/04/2011 09:32	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112150001A	08/03/2011 09:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112140032A	08/03/2011 06:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112080025A	07/28/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112060001A	07/25/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112135708002	08/03/2011 04:22	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112135708002	08/03/2011 12:40	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708002	08/03/2011 04:22	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112135708002	08/03/2011 04:22	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112135708002	08/03/2011 04:22	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112135708002	08/03/2011 04:22	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112135708002	08/03/2011 04:22	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112135708002	08/03/2011 04:22	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112135708002	08/03/2011 04:22	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112135708002	08/03/2011 04:22	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112135708002	08/03/2011 04:22	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112135708002	08/03/2011 04:22	John W Yanzuk II	1

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Sample Description: SL-082-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA6-SB-9.0-10.0

LLI Sample # SW 6354160
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 10:10

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0711 SDG#: DE207-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112155708001	08/04/2011 18:07	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112135708002	08/03/2011 04:22	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112131026001A	08/02/2011 11:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112131026001A	08/02/2011 11:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112131026001D	08/02/2011 11:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112131026001A	08/02/2011 11:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112131026001A	08/02/2011 11:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112131026001A	08/02/2011 11:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112131026001A	08/02/2011 11:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112131026001A	08/02/2011 11:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112131026001A	08/02/2011 11:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112131026001C	08/02/2011 11:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112131026001A	08/02/2011 11:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112131026001B	08/02/2011 11:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112131026001A	08/02/2011 11:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112131026001A	08/02/2011 11:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112131026001A	08/02/2011 11:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112131026001A	08/02/2011 11:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112135711002	08/02/2011 07:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708002	08/01/2011 21:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112155708001	08/04/2011 07:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026001	08/01/2011 21:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711002	08/02/2011 02:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621201B	08/04/2011 22:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209284201B	07/31/2011 19:54	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11215243202A	08/08/2011 18:31	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621201B	08/04/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209284201B	07/28/2011 16:15	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039403B	08/02/2011 12:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243202A	08/03/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401B	07/29/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-103-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA6-SB-4.0-5.0

LLI Sample # SW 6354161
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:35

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0712 SDG#: DE207-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-103-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA6-SB-4.0-5.0

LLI Sample # SW 6354161
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:35

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0712 SDG#: DE207-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.85
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.3		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-103-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA6-SB-4.0-5.0

LLI Sample # SW 6354161
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:35

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0712 SDG#: DE207-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	280	J	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,000		6.34	21.0		1
07914	Boron	7440-42-8	1.46	J	0.377	5.24		1
01650	Calcium	7440-70-2	3,880		2.62	21.0		1
01654	Iron	7439-89-6	19,200		2.74	21.0		1
01656	Lithium	7439-93-2	26.1		0.65	2.1		1
01657	Magnesium	7439-95-4	5,410		0.461	10.5		1
06958	Manganese	7439-96-5	271		0.0377	0.524		1
10145	Phosphorus	7723-14-0	381		0.367	10.5		1
01662	Potassium	7440-09-7	2,470		11.8	52.4		1
01667	Sodium	7440-23-5	124		6.24	105		1
07968	Strontium	7440-24-6	13.7		0.0262	0.524		1
06969	Tin	7440-31-5	2.67	J	0.336	10.5		1
06970	Titanium	7440-32-6	1,140		0.0730	1.03		1

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Analysis Report

Sample Description: SL-103-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA6-SB-4.0-5.0

LLI Sample # SW 6354161
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:35

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0712 SDG#: DE207-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	2.00	J	0.482	5.24		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.134	J	0.0784	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.62		0.0847	0.424		2
06126	Barium	7440-39-3	99.3		0.112	0.424		2
06127	Beryllium	7440-41-7	0.709		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.110		0.0466	0.106		2
06131	Chromium	7440-47-3	22.0		0.127	0.424		2
06132	Cobalt	7440-48-4	7.85		0.0212	0.106		2
06133	Copper	7440-50-8	10.5		0.0847	0.424		2
06135	Lead	7439-92-1	5.97		0.0108	0.212		2
06138	Molybdenum	7439-98-7	0.612		0.0529	0.106		2
06139	Nickel	7440-02-0	15.6		0.106	0.424		2
06141	Selenium	7782-49-2	0.135	J	0.0614	0.424		2
06142	Silver	7440-22-4	0.0287	J	0.0150	0.106		2
06145	Thallium	7440-28-0	0.338		0.0318	0.106		2
06148	Vanadium	7440-62-2	43.0		0.0233	0.106		2
06149	Zinc	7440-66-6	72.6		0.593	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	U	0.0074	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.84	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.35		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-103-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA6-SB-4.0-5.0

LLI Sample # SW 6354161
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:35

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0712 SDG#: DE207-12

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-103-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201120425002	07/23/2011 13:28	Christopher D Meeks	n.a.
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLN026	08/17/2011 13:44	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLC026	08/08/2011 15:56	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLC026	08/04/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLN026	08/03/2011 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11206A34A	07/25/2011 21:02	Marie D John	21.85
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120425002	07/23/2011 13:27	Christopher D Meeks	n.a.
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112140035A	08/10/2011 13:25	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112150010A	08/05/2011 22:13	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112150010A	08/03/2011 16:40	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112140035A	08/03/2011 09:30	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112080025A	07/29/2011 00:08	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112060001A	07/25/2011 15:20	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112140032A	08/04/2011 14:36	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112150001A	08/04/2011 09:56	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112150001A	08/03/2011 09:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112140032A	08/03/2011 06:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112080025A	07/28/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112060001A	07/25/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112135708002	08/03/2011 04:27	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112135708002	08/03/2011 12:44	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708002	08/03/2011 04:27	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112135708002	08/03/2011 04:27	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112135708002	08/03/2011 04:27	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112135708002	08/03/2011 04:27	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112135708002	08/03/2011 04:27	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112135708002	08/03/2011 04:27	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112135708002	08/03/2011 04:27	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112135708002	08/03/2011 04:27	John W Yanzuk II	1

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Sample Description: SL-103-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA6-SB-4.0-5.0

LLI Sample # SW 6354161
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:35

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0712 SDG#: DE207-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112135708002	08/03/2011 04:27	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112135708002	08/03/2011 04:27	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112155708001	08/04/2011 18:11	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112135708002	08/03/2011 04:27	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112131026001A	08/02/2011 11:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112131026001A	08/02/2011 11:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112131026001D	08/02/2011 11:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112131026001A	08/02/2011 11:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112131026001A	08/02/2011 11:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112131026001A	08/02/2011 11:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112131026001A	08/02/2011 11:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112131026001A	08/02/2011 11:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112131026001A	08/02/2011 11:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112131026001C	08/02/2011 11:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112131026001A	08/02/2011 11:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112131026001B	08/02/2011 11:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112131026001A	08/02/2011 11:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112131026001A	08/02/2011 11:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112131026001A	08/02/2011 11:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112131026001A	08/02/2011 11:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112135711002	08/02/2011 08:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708002	08/01/2011 21:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112155708001	08/04/2011 07:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026001	08/01/2011 21:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711002	08/02/2011 02:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621201B	08/04/2011 23:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209284201B	07/31/2011 20:17	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11215243202A	08/08/2011 18:45	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621201B	08/04/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209284201B	07/28/2011 16:15	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039403B	08/02/2011 12:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243202A	08/03/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401B	07/29/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-103-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA6-SB-9.0-10.0

LLI Sample # SW 6354162
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:45

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0713 SDG#: DE207-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SL-103-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA6-SB-9.0-10.0

LLI Sample # SW 6354162
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:45

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0713 SDG#: DE207-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.81
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	78		2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1

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Sample Description: SL-103-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA6-SB-9.0-10.0

LLI Sample # SW 6354162
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:45

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0713 SDG#: DE207-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	290	J	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.74	J	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,500		6.57	21.7		1
07914	Boron	7440-42-8	1.41	J	0.391	5.43		1
01650	Calcium	7440-70-2	4,580		2.71	21.7		1
01654	Iron	7439-89-6	18,500		2.83	21.7		1
01656	Lithium	7439-93-2	26.2		0.67	2.2		1
01657	Magnesium	7439-95-4	5,860		0.478	10.9		1
06958	Manganese	7439-96-5	289		0.0391	0.543		1
10145	Phosphorus	7723-14-0	368		0.380	10.9		1
01662	Potassium	7440-09-7	2,540		12.3	54.3		1
01667	Sodium	7440-23-5	128		6.46	109		1
07968	Strontium	7440-24-6	10.9		0.0271	0.543		1
06969	Tin	7440-31-5	2.46	J	0.347	10.9		1
06970	Titanium	7440-32-6	1,080		0.0749	1.05		1

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Sample Description: SL-103-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA6-SB-9.0-10.0

LLI Sample # SW 6354162
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:45

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0713 SDG#: DE207-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	2.04 J	0.499	5.43		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0908 J	0.0795	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.91	0.0860	0.430		2
06126	Barium	7440-39-3	85.7	0.114	0.430		2
06127	Beryllium	7440-41-7	0.504	0.0172	0.107		2
06128	Cadmium	7440-43-9	0.0789 J	0.0473	0.107		2
06131	Chromium	7440-47-3	17.6	0.129	0.430		2
06132	Cobalt	7440-48-4	5.26	0.0215	0.107		2
06133	Copper	7440-50-8	7.31	0.0860	0.430		2
06135	Lead	7439-92-1	3.53	0.0110	0.215		2
06138	Molybdenum	7439-98-7	0.430	0.0537	0.107		2
06139	Nickel	7440-02-0	11.3	0.107	0.430		2
06141	Selenium	7782-49-2	0.0623 U	0.0623	0.430		2
06142	Silver	7440-22-4	0.0216 J	0.0153	0.107		2
06145	Thallium	7440-28-0	0.228	0.0322	0.107		2
06148	Vanadium	7440-62-2	31.9	0.0236	0.107		2
06149	Zinc	7440-66-6	55.2	0.602	3.22		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074 U	0.0074	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0	0.87	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	32.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.47	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: SL-103-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA6-SB-9.0-10.0

LLI Sample # SW 6354162
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:45

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0713 SDG#: DE207-13

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-103-SA6-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLN026	08/17/2011 14:09	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLC026	08/08/2011 16:29	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLC026	08/04/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLN026	08/03/2011 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11206A34A	07/25/2011 21:39	Marie D John	23.81
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120425002	07/23/2011 13:29	Christopher D Meeks	n.a.
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112140035A	08/04/2011 21:02	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112150010A	08/05/2011 22:32	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112150010A	08/03/2011 16:40	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112140035A	08/03/2011 09:30	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112080025A	07/29/2011 00:23	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112060001A	07/25/2011 16:11	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112140032A	08/04/2011 15:20	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112150001A	08/04/2011 09:08	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112150001A	08/03/2011 09:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112140032A	08/03/2011 06:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112080025A	07/28/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112060001A	07/25/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112135708002	08/03/2011 04:39	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112135708002	08/03/2011 12:55	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708002	08/03/2011 04:39	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112135708002	08/03/2011 04:39	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112135708002	08/03/2011 04:39	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112135708002	08/03/2011 04:39	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112135708002	08/03/2011 04:39	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112135708002	08/03/2011 04:39	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112135708002	08/03/2011 04:39	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112135708002	08/03/2011 04:39	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112135708002	08/03/2011 04:39	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112135708002	08/03/2011 04:39	John W Yanzuk II	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-103-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA6-SB-9.0-10.0

LLI Sample # SW 6354162
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:45

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0713 SDG#: DE207-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112155708001	08/04/2011 18:14	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112135708002	08/03/2011 04:39	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112131026001A	08/02/2011 11:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112131026001A	08/02/2011 11:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112131026001D	08/02/2011 11:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112131026001A	08/02/2011 11:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112131026001A	08/02/2011 11:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112131026001A	08/02/2011 11:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112131026001A	08/02/2011 11:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112131026001A	08/02/2011 11:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112131026001A	08/02/2011 11:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112131026001C	08/02/2011 11:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112131026001A	08/02/2011 11:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112131026001B	08/02/2011 11:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112131026001A	08/02/2011 11:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112131026001A	08/02/2011 11:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112131026001A	08/02/2011 11:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112131026001A	08/02/2011 11:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112135711002	08/02/2011 08:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708002	08/01/2011 21:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112155708001	08/04/2011 07:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026001	08/01/2011 21:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711002	08/02/2011 02:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621201B	08/04/2011 23:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209284201B	07/31/2011 18:22	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11215243202A	08/08/2011 18:59	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621201B	08/04/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209284201B	07/28/2011 16:15	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039403B	08/02/2011 12:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243202A	08/03/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401B	07/29/2011 21:23	Scott W Freisher	1

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Analysis Report

Sample Description: SL-124-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA6-SB-4.0-5.0

LLI Sample # SW 6354163
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:45

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0714 SDG#: DE207-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(a)pyrene	50-32-8	47	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	33	J	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	31	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	25	J	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1

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Sample Description: SL-124-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA6-SB-4.0-5.0

LLI Sample # SW 6354163
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:45

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0714 SDG#: DE207-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.0		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.0		5
10138	Anthracene	120-12-7	9.4		1.8	9.0		5
10138	Benzo(a)anthracene	56-55-3	53		3.6	9.0		5
10138	Benzo(b)fluoranthene	205-99-2	60		3.6	9.0		5
10138	Chrysene	218-01-9	55		1.8	9.0		5
10138	Dibenz(a,h)anthracene	53-70-3	6.3	J	3.6	9.0		5
10138	Fluoranthene	206-44-0	77		3.6	9.0		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.0		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.0		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.0		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.0		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.0		5
10138	Phenanthrene	85-01-8	29		3.6	9.0		5
10138	Pyrene	129-00-0	61		3.6	9.0		5
	Reporting limits were raised due to interference from the sample matrix.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.5
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.4	U	5.4	18		5
10225	Aroclor 5442	12642-23-8	5.4	U	5.4	18		5
10225	Aroclor 5460	11126-42-4	180		5.4	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.2		5

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SSFL Area IV Collocated Soil Sampling
SL-124-SA6-SB-4.0-5.0

LLI Sample # SW 6354163
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:45

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14420 Albemarle Point Place
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E0714 SDG#: DE207-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.2		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.2		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.2		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.2		5
10225	PCB-1254	11097-69-1	190		1.8	9.2		5
10225	PCB-1260	11096-82-5	2.1	U	2.1	9.2		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.2		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.2		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.5		5
10199	EFH (C15-C20)	n.a.	2.2	U	2.2	6.5		5
10199	EFH (C21-C30)	n.a.	24		2.2	6.5		5
10199	EFH (C30 - C40)	n.a.	71		2.2	6.5		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.5		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,500		6.43	21.3		1
07914	Boron	7440-42-8	1.56	J	0.383	5.32		1
01650	Calcium	7440-70-2	10,600		2.66	21.3		1
01654	Iron	7439-89-6	37,200		13.9	106		5
01656	Lithium	7439-93-2	17.2		0.66	2.1		1
01657	Magnesium	7439-95-4	4,850		0.468	10.6		1
06958	Manganese	7439-96-5	297		0.0383	0.532		1
10145	Phosphorus	7723-14-0	458		0.372	10.6		1
01662	Potassium	7440-09-7	2,230		12.0	53.2		1
01667	Sodium	7440-23-5	361		6.33	106		1
07968	Strontium	7440-24-6	35.6		0.0266	0.532		1
06969	Tin	7440-31-5	2.89	J	0.340	10.6		1

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Sample Description: SL-124-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA6-SB-4.0-5.0

LLI Sample # SW 6354163
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:45

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E0714 SDG#: DE207-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06970	Titanium	7440-32-6	896		0.0770	1.08		1
10146	Zirconium	7440-67-7	2.56	J	0.489	5.32		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.343		0.0779	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.69		0.0842	0.421		2
06126	Barium	7440-39-3	89.6		0.112	0.421		2
06127	Beryllium	7440-41-7	0.573		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.190		0.0463	0.105		2
06131	Chromium	7440-47-3	19.8		0.126	0.421		2
06132	Cobalt	7440-48-4	10.7		0.0211	0.105		2
06133	Copper	7440-50-8	23.2		0.0842	0.421		2
06135	Lead	7439-92-1	9.65		0.0107	0.211		2
06138	Molybdenum	7439-98-7	1.67		0.0527	0.105		2
06139	Nickel	7440-02-0	16.4		0.105	0.421		2
06141	Selenium	7782-49-2	0.124	J	0.0611	0.421		2
06142	Silver	7440-22-4	0.0473	J	0.0150	0.105		2
06145	Thallium	7440-28-0	0.216		0.0316	0.105		2
06148	Vanadium	7440-62-2	43.3		0.0232	0.105		2
06149	Zinc	7440-66-6	70.2		0.590	3.16		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.837		0.0074	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.87	U	0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	9.88		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-124-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA6-SB-4.0-5.0

LLI Sample # SW 6354163
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E0714 SDG#: DE207-14

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-124-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201120425002	07/23/2011 13:32	Christopher D Meeks	n.a.
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLN026	08/17/2011 14:35	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLC026	08/08/2011 17:01	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLC026	08/04/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLN026	08/03/2011 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11206A34A	07/26/2011 00:04	Marie D John	23.5
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120425002	07/23/2011 13:31	Christopher D Meeks	n.a.
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112140035A	08/10/2011 13:31	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112150010A	08/05/2011 22:50	Sarah M Snyder	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112150010A	08/03/2011 16:40	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112140035A	08/03/2011 09:30	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112080025A	07/29/2011 00:38	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112060001A	07/25/2011 16:24	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112140032A	08/04/2011 23:28	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112150001A	08/04/2011 12:45	Tracy A Cole	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112150001A	08/03/2011 09:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112140032A	08/03/2011 06:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112080025A	07/28/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112060001A	07/25/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112135708002	08/03/2011 04:43	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112135708002	08/03/2011 12:58	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708002	08/03/2011 04:43	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112135708002	08/03/2011 13:02	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	112135708002	08/03/2011 04:43	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112135708002	08/03/2011 04:43	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112135708002	08/03/2011 04:43	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112135708002	08/03/2011 04:43	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112135708002	08/03/2011 04:43	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112135708002	08/03/2011 04:43	John W Yanzuk II	1

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Analysis Report

Sample Description: SL-124-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA6-SB-4.0-5.0

LLI Sample # SW 6354163
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Project Name: SSFL Area IV Collocated Soil Sampling

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E0714 SDG#: DE207-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112135708002	08/03/2011 04:43	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112135708002	08/03/2011 04:43	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112155708001	08/04/2011 18:25	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112135708002	08/03/2011 04:43	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112131026001A	08/02/2011 11:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112131026001A	08/02/2011 11:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112131026001D	08/02/2011 11:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112131026001A	08/02/2011 11:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112131026001A	08/02/2011 11:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112131026001A	08/02/2011 11:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112131026001A	08/02/2011 11:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112131026001A	08/02/2011 11:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112131026001A	08/02/2011 11:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112131026001C	08/02/2011 11:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112131026001A	08/02/2011 11:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112131026001B	08/02/2011 11:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112131026001A	08/02/2011 11:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112131026001A	08/02/2011 11:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112131026001A	08/02/2011 11:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112131026001A	08/02/2011 11:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112135711002	08/02/2011 08:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708002	08/01/2011 21:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112155708001	08/04/2011 07:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026001	08/01/2011 21:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711002	08/02/2011 02:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621201B	08/05/2011 00:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209284201B	07/31/2011 20:40	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11215243202A	08/08/2011 19:14	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621201B	08/04/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209284201B	07/28/2011 16:15	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039403B	08/02/2011 12:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243202A	08/03/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401B	07/29/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-124-SA6-SB-12.5-13.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA6-SB-12.5-13.5

LLI Sample # SW 6354164
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:55

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0715 SDG#: DE207-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: SL-124-SA6-SB-12.5-13.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA6-SB-12.5-13.5

LLI Sample # SW 6354164
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:55

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0715 SDG#: DE207-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.2		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.2		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.2		5
10138	Benzo(a)anthracene	56-55-3	3.7	U	3.7	9.2		5
10138	Benzo(a)pyrene	50-32-8	3.7	U	3.7	9.2		5
10138	Benzo(b)fluoranthene	205-99-2	4.3	J	3.7	9.2		5
10138	Benzo(g,h,i)perylene	191-24-2	5.9	J	3.7	9.2		5
10138	Benzo(k)fluoranthene	207-08-9	3.7	U	3.7	9.2		5
10138	Chrysene	218-01-9	4.5	J	1.8	9.2		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.2		5
10138	Fluoranthene	206-44-0	5.8	J	3.7	9.2		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.2		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.7	U	3.7	9.2		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.2		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.2		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.2		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.2		5
10138	Phenanthrene	85-01-8	3.7	U	3.7	9.2		5
10138	Pyrene	129-00-0	5.5	J	3.7	9.2		5
	Reporting limits were raised due to interference from the sample matrix.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.06
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.5	U	5.5	18		5
10225	Aroclor 5442	12642-23-8	5.5	U	5.5	18		5
10225	Aroclor 5460	11126-42-4	73		5.5	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.4		5

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Sample Description: SL-124-SA6-SB-12.5-13.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA6-SB-12.5-13.5

LLI Sample # SW 6354164
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:55

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0715 SDG#: DE207-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.4		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.4		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.4		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.4		5
10225	PCB-1254	11097-69-1	74		1.8	9.4		5
10225	PCB-1260	11096-82-5	2.1	U	2.1	9.4		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.4		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.4		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.6		5
10199	EFH (C15-C20)	n.a.	20		2.2	6.6		5
10199	EFH (C21-C30)	n.a.	63		2.2	6.6		5
10199	EFH (C30 - C40)	n.a.	170		2.2	6.6		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.6		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,500		6.48	21.4		1
07914	Boron	7440-42-8	0.385	U	0.385	5.35		1
01650	Calcium	7440-70-2	8,600		2.68	21.4		1
01654	Iron	7439-89-6	48,000		14.0	107		5
01656	Lithium	7439-93-2	24.0		0.66	2.1		1
01657	Magnesium	7439-95-4	6,240		0.471	10.7		1
06958	Manganese	7439-96-5	340		0.0385	0.535		1
10145	Phosphorus	7723-14-0	347		0.375	10.7		1
01662	Potassium	7440-09-7	2,680		12.1	53.5		1
01667	Sodium	7440-23-5	313		6.37	107		1
07968	Strontium	7440-24-6	25.7		0.0268	0.535		1
06969	Tin	7440-31-5	2.44	J	0.343	10.7		1

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Sample Description: SL-124-SA6-SB-12.5-13.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA6-SB-12.5-13.5

LLI Sample # SW 6354164
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:55

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0715 SDG#: DE207-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06970	Titanium	7440-32-6	1,130		0.0753	1.06		1
10146	Zirconium	7440-67-7	1.79	J	0.492	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.325		0.0792	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.43		0.0856	0.428		2
06126	Barium	7440-39-3	103		0.113	0.428		2
06127	Beryllium	7440-41-7	0.662		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.203		0.0471	0.107		2
06131	Chromium	7440-47-3	22.7		0.128	0.428		2
06132	Cobalt	7440-48-4	13.1		0.0214	0.107		2
06133	Copper	7440-50-8	18.2		0.0856	0.428		2
06135	Lead	7439-92-1	11.1		0.0109	0.214		2
06138	Molybdenum	7439-98-7	0.958		0.0535	0.107		2
06139	Nickel	7440-02-0	18.7		0.107	0.428		2
06141	Selenium	7782-49-2	0.108	J	0.0621	0.428		2
06142	Silver	7440-22-4	0.0509	J	0.0152	0.107		2
06145	Thallium	7440-28-0	0.285		0.0321	0.107		2
06148	Vanadium	7440-62-2	47.0		0.0235	0.107		2
06149	Zinc	7440-66-6	76.3		0.599	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.415		0.0075	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.89	U	0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.3		0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	11.7		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-124-SA6-SB-12.5-13.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA6-SB-12.5-13.5

LLI Sample # SW 6354164
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:55

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0715 SDG#: DE207-15

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-124-SA6-SB-13.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLN026	08/17/2011 14:59	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLC026	08/08/2011 17:34	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLC026	08/04/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLN026	08/03/2011 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11206A34A	07/25/2011 22:15	Marie D John	23.06
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120425002	07/23/2011 13:33	Christopher D Meeks	n.a.
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112140035A	08/10/2011 13:37	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112150010A	08/06/2011 00:23	Sarah M Snyder	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112150010A	08/03/2011 16:40	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112140035A	08/03/2011 09:30	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112080025A	07/29/2011 00:53	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112060001A	07/25/2011 16:37	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112140032A	08/05/2011 02:24	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112150001A	08/04/2011 13:09	Tracy A Cole	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112150001A	08/03/2011 09:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112140032A	08/03/2011 06:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112080025A	07/28/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112060001A	07/25/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112135708002	08/03/2011 04:47	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112135708002	08/03/2011 13:06	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708002	08/03/2011 04:47	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112135708002	08/03/2011 13:09	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	112135708002	08/03/2011 04:47	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112135708002	08/03/2011 04:47	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112135708002	08/03/2011 04:47	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112135708002	08/03/2011 04:47	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112135708002	08/03/2011 04:47	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112135708002	08/03/2011 04:47	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112135708002	08/03/2011 04:47	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112135708002	08/03/2011 04:47	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-124-SA6-SB-12.5-13.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA6-SB-12.5-13.5

LLI Sample # SW 6354164
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:55

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0715 SDG#: DE207-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112155708001	08/04/2011 18:29	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112135708002	08/03/2011 04:47	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112131026001A	08/02/2011 11:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112131026001A	08/02/2011 11:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112131026001D	08/02/2011 11:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112131026001A	08/02/2011 11:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112131026001A	08/02/2011 11:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112131026001A	08/02/2011 11:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112131026001A	08/02/2011 11:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112131026001A	08/02/2011 11:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112131026001A	08/02/2011 11:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112131026001C	08/02/2011 11:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112131026001A	08/02/2011 11:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112131026001B	08/02/2011 11:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112131026001A	08/02/2011 11:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112131026001A	08/02/2011 11:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112131026001A	08/02/2011 11:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112131026001A	08/02/2011 11:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112135711002	08/02/2011 08:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708002	08/01/2011 21:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112155708001	08/04/2011 07:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026001	08/01/2011 21:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711002	08/02/2011 02:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621201B	08/05/2011 00:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209284201B	07/31/2011 21:03	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11215243202A	08/08/2011 19:43	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621201B	08/04/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209284201B	07/28/2011 16:15	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039403B	08/02/2011 12:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243202A	08/03/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401B	07/29/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-075-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA6-SB-4.0-5.0

LLI Sample # SW 6354165
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:05

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0716 SDG#: DE207-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-075-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA6-SB-4.0-5.0

LLI Sample # SW 6354165
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:05

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0716 SDG#: DE207-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Tetralin	119-64-2	190	U	190	190		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.3		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.3		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.3		5
10138	Benzo(a)anthracene	56-55-3	3.7	U	3.7	9.3		5
10138	Benzo(a)pyrene	50-32-8	3.7	U	3.7	9.3		5
10138	Benzo(b)fluoranthene	205-99-2	3.7	U	3.7	9.3		5
10138	Benzo(g,h,i)perylene	191-24-2	3.7	U	3.7	9.3		5
10138	Benzo(k)fluoranthene	207-08-9	3.7	U	3.7	9.3		5
10138	Chrysene	218-01-9	1.9	U	1.9	9.3		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.3		5
10138	Fluoranthene	206-44-0	3.7	U	3.7	9.3		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.3		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.7	U	3.7	9.3		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.3		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.3		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.3		5
10138	Phenanthrene	85-01-8	3.7	U	3.7	9.3		5
10138	Pyrene	129-00-0	3.7	U	3.7	9.3		5
	Reporting limits were raised due to interference from the sample matrix.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.01
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	48		1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-075-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA6-SB-4.0-5.0

LLI Sample # SW 6354165
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:05

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0716 SDG#: DE207-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	21		0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.7		5
10199	EFH (C15-C20)	n.a.	2.2	U	2.2	6.7		5
10199	EFH (C21-C30)	n.a.	9.6		2.2	6.7		5
10199	EFH (C30 - C40)	n.a.	57		2.2	6.7		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.7		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,100		6.55	21.6		1
07914	Boron	7440-42-8	4.06	J	0.390	5.41		1
01650	Calcium	7440-70-2	15,900		2.71	21.6		1
01654	Iron	7439-89-6	22,700		2.82	21.6		1
01656	Lithium	7439-93-2	23.4		0.67	2.2		1
01657	Magnesium	7439-95-4	5,640		0.476	10.8		1
06958	Manganese	7439-96-5	286		0.0390	0.541		1
10145	Phosphorus	7723-14-0	477		0.379	10.8		1
01662	Potassium	7440-09-7	3,090		12.2	54.1		1
01667	Sodium	7440-23-5	203		6.44	108		1
07968	Strontium	7440-24-6	40.8		0.0271	0.541		1
06969	Tin	7440-31-5	2.52	J	0.346	10.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-075-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA6-SB-4.0-5.0

LLI Sample # SW 6354165
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:05

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0716 SDG#: DE207-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06970	Titanium	7440-32-6	1,140		0.0761	1.07		1
10146	Zirconium	7440-67-7	3.22	J	0.498	5.41		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.173	J	0.0809	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.14		0.0874	0.437		2
06126	Barium	7440-39-3	119		0.116	0.437		2
06127	Beryllium	7440-41-7	0.712		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.183		0.0481	0.109		2
06131	Chromium	7440-47-3	25.9		0.131	0.437		2
06132	Cobalt	7440-48-4	8.84		0.0219	0.109		2
06133	Copper	7440-50-8	15.1		0.0874	0.437		2
06135	Lead	7439-92-1	9.04		0.0111	0.219		2
06138	Molybdenum	7439-98-7	0.682		0.0546	0.109		2
06139	Nickel	7440-02-0	16.4		0.109	0.437		2
06141	Selenium	7782-49-2	0.164	J	0.0634	0.437		2
06142	Silver	7440-22-4	0.0553	J	0.0155	0.109		2
06145	Thallium	7440-28-0	0.337		0.0328	0.109		2
06148	Vanadium	7440-62-2	55.0		0.0240	0.109		2
06149	Zinc	7440-66-6	74.8		0.612	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0077	U	0.0077	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.19		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-075-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA6-SB-4.0-5.0

LLI Sample # SW 6354165
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:05

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0716 SDG#: DE207-16

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-075-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLN026	08/17/2011 15:25	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLC026	08/08/2011 18:06	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLC026	08/04/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLN026	08/03/2011 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11206A34A	07/26/2011 00:41	Marie D John	22.01
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120425002	07/23/2011 13:34	Christopher D Meeks	n.a.
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112140035A	08/04/2011 21:31	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112150010A	08/06/2011 00:42	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112150010A	08/03/2011 16:40	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112140035A	08/03/2011 09:30	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112080025A	07/29/2011 01:08	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112060001A	07/25/2011 16:49	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112140032A	08/04/2011 22:44	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112150001A	08/04/2011 13:33	Tracy A Cole	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112150001A	08/03/2011 09:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112140032A	08/03/2011 06:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112080025A	07/28/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112060001A	07/25/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112135708002	08/03/2011 04:52	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112135708002	08/03/2011 13:13	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708002	08/03/2011 04:52	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112135708002	08/03/2011 04:52	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112135708002	08/03/2011 04:52	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112135708002	08/03/2011 04:52	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112135708002	08/03/2011 04:52	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112135708002	08/03/2011 04:52	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112135708002	08/03/2011 04:52	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112135708002	08/03/2011 04:52	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112135708002	08/03/2011 04:52	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112135708002	08/03/2011 04:52	John W Yanzuk II	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-075-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA6-SB-4.0-5.0

LLI Sample # SW 6354165
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:05

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0716 SDG#: DE207-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112155708001	08/04/2011 18:32	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112135708002	08/03/2011 04:52	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112131026001A	08/02/2011 11:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112131026001A	08/02/2011 11:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112131026001D	08/02/2011 11:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112131026001A	08/02/2011 11:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112131026001A	08/02/2011 11:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112131026001A	08/02/2011 11:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112131026001A	08/02/2011 11:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112131026001A	08/02/2011 11:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112131026001A	08/02/2011 11:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112131026001C	08/02/2011 11:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112131026001A	08/02/2011 11:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112131026001B	08/02/2011 11:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112131026001A	08/02/2011 11:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112131026001A	08/02/2011 11:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112131026001A	08/02/2011 11:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112131026001A	08/02/2011 11:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112135711002	08/02/2011 08:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708002	08/01/2011 21:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112155708001	08/04/2011 07:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026001	08/01/2011 21:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711002	08/02/2011 02:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621201B	08/05/2011 00:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209284201B	07/31/2011 21:26	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11215243202A	08/08/2011 19:57	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621201B	08/04/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209284201B	07/28/2011 16:15	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039403B	08/02/2011 12:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243202A	08/03/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401B	07/29/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-075-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA6-SB-9.0-10.0

LLI Sample # SW 6354166
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:15

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0717 SDG#: DE207-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	130	J	18	180		1
04688	Benzo(a)pyrene	50-32-8	130	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	150	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	91	J	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	80	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Chrysene	218-01-9	130	J	18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	24	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	18	360		1
04688	Fluoranthene	206-44-0	110	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	80	J	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-075-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA6-SB-9.0-10.0

LLI Sample # SW 6354166
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:15

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0717 SDG#: DE207-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	110	J	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.1		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.1		5
10138	Anthracene	120-12-7	2.3	J	1.8	9.1		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.1		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.1		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.1		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.1		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.1		5
10138	Phenanthrene	85-01-8	4.4	J	3.6	9.1		5
	Reporting limits were raised due to interference from the sample matrix.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.13
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	22	U	22	72		20
10225	Aroclor 5442	12642-23-8	22	U	22	72		20

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-075-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA6-SB-9.0-10.0

LLI Sample # SW 6354166
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:15

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0717 SDG#: DE207-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5460	11126-42-4	1,400		22	72		20
10225	PCB-1016	12674-11-2	7.2	U	7.2	37		20
10225	PCB-1221	11104-28-2	7.2	U	7.2	37		20
10225	PCB-1232	11141-16-5	7.2	U	7.2	37		20
10225	PCB-1242	53469-21-9	7.2	U	7.2	37		20
10225	PCB-1248	12672-29-6	7.2	U	7.2	37		20
10225	PCB-1254	11097-69-1	790		7.2	37		20
10225	PCB-1260	11096-82-5	8.5	U	8.5	37		20
10225	PCB-1262	37324-23-5	7.2	U	7.2	37		20
10225	PCB-1268	11100-14-4	7.2	U	7.2	37		20
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	270	J	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.5		5
10199	EFH (C15-C20)	n.a.	8.2		2.2	6.5		5
10199	EFH (C21-C30)	n.a.	43		2.2	6.5		5
10199	EFH (C30 - C40)	n.a.	250		2.2	6.5		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.5		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		6.47	21.4		1
07914	Boron	7440-42-8	0.854	J	0.385	5.35		1
01650	Calcium	7440-70-2	20,400		2.67	21.4		1
01654	Iron	7439-89-6	50,500		14.0	107		5
01656	Lithium	7439-93-2	21.9		0.66	2.1		1
01657	Magnesium	7439-95-4	5,630		0.470	10.7		1
06958	Manganese	7439-96-5	349		0.0385	0.535		1
10145	Phosphorus	7723-14-0	454		0.374	10.7		1
01662	Potassium	7440-09-7	2,900		12.1	53.5		1
01667	Sodium	7440-23-5	214		6.36	107		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-075-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA6-SB-9.0-10.0

LLI Sample # SW 6354166
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:15

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0717 SDG#: DE207-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07968	Strontium	7440-24-6	43.9		0.0267	0.535		1
06969	Tin	7440-31-5	2.38	J	0.342	10.7		1
06970	Titanium	7440-32-6	631		0.0744	1.05		1
10146	Zirconium	7440-67-7	2.85	J	0.492	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.159	J	0.0776	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.59		0.0839	0.419		2
06126	Barium	7440-39-3	80.5		0.111	0.419		2
06127	Beryllium	7440-41-7	0.505		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.171		0.0461	0.105		2
06131	Chromium	7440-47-3	19.6		0.126	0.419		2
06132	Cobalt	7440-48-4	7.84		0.0210	0.105		2
06133	Copper	7440-50-8	11.9		0.0839	0.419		2
06135	Lead	7439-92-1	6.46		0.0107	0.210		2
06138	Molybdenum	7439-98-7	0.727		0.0524	0.105		2
06139	Nickel	7440-02-0	11.9		0.105	0.419		2
06141	Selenium	7782-49-2	0.125	J	0.0608	0.419		2
06142	Silver	7440-22-4	0.0374	J	0.0149	0.105		2
06145	Thallium	7440-28-0	0.227		0.0315	0.105		2
06148	Vanadium	7440-62-2	38.7		0.0231	0.105		2
06149	Zinc	7440-66-6	57.8		0.587	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0155	J	0.0075	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.81		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-075-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA6-SB-9.0-10.0

LLI Sample # SW 6354166
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:15

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0717 SDG#: DE207-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-075-SA6-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11214SLN026	08/17/2011	15:49	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLC026	08/08/2011	18:38	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLC026	08/04/2011	07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11214SLN026	08/03/2011	06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11206A34A	07/26/2011	01:17	Marie D John	20.13
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120425002	07/23/2011	13:35	Christopher D Meeks	n.a.
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112140035A	08/04/2011	21:37	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112150010A	08/06/2011	01:00	Sarah M Snyder	20
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112150010A	08/03/2011	16:40	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112140035A	08/03/2011	09:30	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112080025A	07/29/2011	01:23	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112060001A	07/25/2011	17:02	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112140032A	08/05/2011	01:40	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112150001A	08/04/2011	14:21	Tracy A Cole	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112150001A	08/03/2011	09:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112140032A	08/03/2011	06:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112080025A	07/28/2011	15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112060001A	07/25/2011	12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112135708002	08/03/2011	04:56	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112135708002	08/03/2011	13:17	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708002	08/03/2011	04:56	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112135708002	08/03/2011	13:21	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	112135708002	08/03/2011	04:56	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112135708002	08/03/2011	04:56	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112135708002	08/03/2011	04:56	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-075-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA6-SB-9.0-10.0

LLI Sample # SW 6354166
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:15

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0717 SDG#: DE207-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112135708002	08/03/2011 04:56	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112135708002	08/03/2011 04:56	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112135708002	08/03/2011 04:56	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112135708002	08/03/2011 04:56	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112135708002	08/03/2011 04:56	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112155708001	08/04/2011 18:36	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112135708002	08/03/2011 04:56	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112131026001A	08/02/2011 11:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112131026001A	08/02/2011 11:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112131026001D	08/02/2011 11:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112131026001A	08/02/2011 11:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112131026001A	08/02/2011 11:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112131026001A	08/02/2011 11:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112131026001A	08/02/2011 11:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112131026001A	08/02/2011 11:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112131026001A	08/02/2011 11:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112131026001C	08/02/2011 11:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112131026001A	08/02/2011 11:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112131026001B	08/02/2011 11:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112131026001A	08/02/2011 11:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112131026001A	08/02/2011 11:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112131026001A	08/02/2011 11:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112131026001A	08/02/2011 11:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112135711002	08/02/2011 08:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708002	08/01/2011 21:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112155708001	08/04/2011 07:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026001	08/01/2011 21:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711002	08/02/2011 02:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621201B	08/05/2011 01:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11209284201B	07/31/2011 21:49	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11215243202A	08/08/2011 20:12	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621201B	08/04/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11209284201B	07/28/2011 16:15	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039403B	08/02/2011 12:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11215243202A	08/03/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401B	07/29/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-072211 Water
SSFL Area IV Collocated Soil Sampling
TB-072211

LLI Sample # WW 6354167
LLI Group # 1258012
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:00

Submitted: 07/23/2011 09:15
Reported: 09/06/2011 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0718 SDG#: DE207-18TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11206C20A	07/26/2011 00:31	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11206C20A	07/26/2011 00:31	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258012
Reported: 09/06/11 at 10:50 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11213SLA026	Sample number(s): 6354150									
N-Nitrosodimethylamine	40.2		16.7	33.3	ng/kg	100		70-130		
Batch number: 11214SLN026	Sample number(s): 6354150-6354166									
Aniline	170 U		170.	500	ug/kg	72		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	50		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	88		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	88		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	86		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	88		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	90		67-125		
Benzoic acid	170 U		170.	500	ug/kg	77		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	80		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	84		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	89		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	84		79-112		
Carbazole	17	U	17.	170	ug/kg	86		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	87		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	63		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	83		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	86		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	75		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	66		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	85		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	83		74-115		
Chrysene	17	U	17.	170	ug/kg	88		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	91		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	83		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	80		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	82		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	81		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	60		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	88		75-111		
Diethylphthalate	74	J	17.	170	ug/kg	90		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	88		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	96		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	87		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	65		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	43		18-133		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258012
Reported: 09/06/11 at 10:50 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	88		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	84		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	86		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	86		75-117		
Fluoranthene	17	U	17.	170	ug/kg	88		78-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	82		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	94		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	80		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	81		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	89		64-119		
Isophorone	17	U	17.	170	ug/kg	87		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	83		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	79		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	86		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	82		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	69		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	90		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	85		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	82		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	81		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	86		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	86		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	74		51-117		
Phenanthrene	17	U	17.	170	ug/kg	82		77-113		
Phenol	17	U	17.	170	ug/kg	80		58-112		
Pyrene	17	U	17.	170	ug/kg	88		75-115		
Tetralin	170	U	170.	170	ug/kg	0*		70-130		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	83		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	86		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	81		78-111		
Batch number: 11215SLC026	Sample number(s): 6354150-6354166									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	89		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	89		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	91		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	92		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	75		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	78		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	76		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	82		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	102		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	106		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	93		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	75		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	96		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	98		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	100		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	92		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	98		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	75		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	89		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	101		55-118		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258012
Reported: 09/06/11 at 10:50 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	77		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	90		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	93		72-119		
Batch number: 11206A34A	Sample number(s): 6354159-6354166									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	73	71	67-119	3	30
Batch number: 11206C20A	Sample number(s): 6354167									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	91	100	75-135	10	30
Batch number: 112140015A	Sample number(s): 6354150									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	106		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	106		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	85	85	54-134	0	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	85	85	54-134	0	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	110		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	102		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	104		80-120		
HMX	100 U		100.	300	ug/kg	92		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	104		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	80		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	103		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	110		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	102		80-120		
PETN	800 U		800.	2,400	ug/kg	95		80-120		
RDX	50	U	50.	120	ug/kg	92		75-131		
Tetryl	61	U	61.	120	ug/kg	91		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	104		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	112		80-120		
Batch number: 112070008A	Sample number(s): 6354150									
20a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	90		80-126		
Batch number: 112150006A	Sample number(s): 6354150-6354158									
2,4-D	1.2	U	1.2	3.6	ug/kg	96		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	67		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	86		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	73		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	10		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	114		62-170		
MCPA	76	U	76.	250	ug/kg	64		60-130		
MCPP (Mecoprop)	81	J	75.	250	ug/kg	78		54-137		
2,4,5-T	0.085	J	0.082	0.17	ug/kg	89		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	81		68-114		
Batch number: 112140035A	Sample number(s): 6354151,6354154,6354159-6354166									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	114		85-115		
Batch number: 112150007A	Sample number(s): 6354150-6354158									
Aldrin	0.066	U	0.066	0.17	ug/kg	79		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	79		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	97		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	82		46-127		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258012
Reported: 09/06/11 at 10:50 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	94		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	92		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	92		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	94		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	87		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	82		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	97		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	97		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	90		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	82		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	88		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	82		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	91		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	95		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112150010A	Sample number(s): 6354150-6354166									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	84	81	36-106	3	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	93		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	97		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112060001A	Sample number(s): 6354150,6354159-6354166									
Diethylene glycol	5.0	U	5.0	10	mg/kg	97		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	95		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	89		75-125		
Batch number: 112080025A	Sample number(s): 6354150,6354159-6354166									
Ethanol	100 U		100.	500	ug/kg	87		71-129		
Isopropanol	100 U		100.	500	ug/kg	90		75-125		
Methanol	100 U		100.	500	ug/kg	87		68-129		
Batch number: 112140032A	Sample number(s): 6354150,6354159-6354166									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	85		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	102		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
Batch number: 112150001A	Sample number(s): 6354150,6354159-6354166									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	89		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	91		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	92		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	89		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	85		54-107		
Batch number: 112131026001A	Sample number(s): 6354150-6354166									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258012
Reported: 09/06/11 at 10:50 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Antimony	0.0740	U	0.0740	0.200	mg/kg	113		40-224		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	108		78-122		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	107		80-120		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	107		81-119		
Chromium	0.120	U	0.120	0.400	mg/kg	109		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	102		80-119		
Copper	0.0800	U	0.0800	0.400	mg/kg	107		78-122		
Lead	0.0102	U	0.0102	0.200	mg/kg	107		77-123		
Nickel	0.100	U	0.100	0.400	mg/kg	114		80-120		
Silver	0.0142	U	0.0142	0.100	mg/kg	108		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	107		75-124		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	112		76-124		
Zinc	0.560	U	0.560	3.00	mg/kg	112		79-121		
Batch number: 112131026001B	Sample number(s): 6354150-6354166									
Selenium	0.0580	U	0.0580	0.400	mg/kg	119		77-123		
Batch number: 112131026001C	Sample number(s): 6354150-6354166									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	112		76-123		
Batch number: 112131026001D	Sample number(s): 6354150-6354166									
Barium	0.106	U	0.106	0.400	mg/kg	111		80-120		
Batch number: 112135708002	Sample number(s): 6354150-6354166									
Aluminum	9.65	J	6.05	20.0	mg/kg	153		42-158		
Boron	1.45	J	0.360	5.00	mg/kg	109		66-134		
Calcium	20.3		2.50	20.0	mg/kg	110		79-121		
Iron	4.18	J	2.61	20.0	mg/kg	136		51-149		
Lithium	0.62	U	0.62	2.0	mg/kg	97		80-120		
Magnesium	0.606	J	0.440	10.0	mg/kg	128		64-136		
Manganese	0.0360	U	0.0360	0.500	mg/kg	100		78-122		
Phosphorus	1.24	J	0.350	10.0	mg/kg	102		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	120		69-131		
Sodium	5.95	U	5.95	100	mg/kg	115		71-129		
Strontium	0.110	J	0.0250	0.500	mg/kg	103		81-119		
Tin	1.76	J	0.320	10.0	mg/kg	94		74-126		
Zirconium	0.460	U	0.460	5.00	mg/kg	101		80-120		
Batch number: 112135711002	Sample number(s): 6354150-6354166									
Mercury	0.0070	U	0.0070	0.0989	mg/kg	97		72-128		
Batch number: 112155708001	Sample number(s): 6354150-6354166									
Titanium	0.0676	U	0.0676	0.952	mg/kg	167		40-186		
Batch number: 11209284201A	Sample number(s): 6354150-6354159									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	91		85-115		
Batch number: 11209284201B	Sample number(s): 6354160-6354166									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	91		85-115		
Batch number: 11215102201A	Sample number(s): 6354150									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	101		80-120		
Batch number: 11215243202A	Sample number(s): 6354150-6354166									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	80		80-120		
Batch number: 11216621201A	Sample number(s): 6354150-6354159									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	105		90-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258012
Reported: 09/06/11 at 10:50 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	94		90-110		
Batch number: 11216621201B	Sample number(s): 6354160-6354166									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	105		90-110		
Batch number: 11214039403A	Sample number(s): 6354150-6354158									
17a pH by 9045C						100		95-105		
Batch number: 11214039403B	Sample number(s): 6354159-6354166									
17a pH by 9045C						100		95-105		
Batch number: 11210162401A	Sample number(s): 6354151-6354159									
Moisture Content by 160.3						100		80-120		
Batch number: 11210162401B	Sample number(s): 6354160-6354166									
Moisture Content by 160.3						100		80-120		
Batch number: 11222162401A	Sample number(s): 6354150									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11213SLA026	Sample number(s): 6354150 UNSPK: P353026								
N-Nitrosodimethylamine	78	75	70-130	5	30				
Batch number: 11214SLN026	Sample number(s): 6354150-6354166 UNSPK: 6354150								
Aniline	61	61	18-116	1	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	98	99	65-122	2	30				
Benzo(a)pyrene	102	100	57-126	2	30				
Benzo(b)fluoranthene	107	106	59-125	1	30				
Benzo(g,h,i)perylene	106	106	59-127	0	30				
Benzo(k)fluoranthene	100	97	56-132	3	30				
Benzoic acid	29	33	10-173	13	30				
Benzyl alcohol	90	88	67-115	2	30				
4-Bromophenyl-phenylether	95	97	67-129	2	30				
Butylbenzylphthalate	100	108	73-134	8	30				
Di-n-butylphthalate	96	98	67-123	2	30				
Carbazole	96	100	64-120	3	30				
4-Chloro-3-methylphenol	100	99	62-122	0	30				
4-Chloroaniline	43	49	13-107	12	30				
bis(2-Chloroethoxy)methane	97	95	75-104	2	30				
bis(2-Chloroethyl)ether	97	93	60-116	4	30				
bis(2-Chloroisopropyl)ether	86	86	55-142	0	30				
2-Chloronaphthalene	74	75	50-141	2	30				
2-Chlorophenol	94	91	73-121	3	30				
4-Chlorophenyl-phenylether	97	95	80-109	2	30				
Chrysene	95	98	62-128	4	30				
Dibenz(a,h)anthracene	110	108	65-125	3	30				

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Dibenzofuran	95	95	71-112	0	30				
1,2-Dichlorobenzene	91	90	66-108	2	30				
1,3-Dichlorobenzene	90	88	63-109	2	30				
1,4-Dichlorobenzene	91	89	58-108	2	30				
3,3'-Dichlorobenzidine	56	61	28-109	8	30				
2,4-Dichlorophenol	97	97	66-123	0	30				
Diethylphthalate	97	97	66-118	0	30				
2,4-Dimethylphenol	98	99	68-118	1	30				
3,5-Dimethylphenol	104	107	71-127	3	30				
Dimethylphthalate	99	96	64-118	2	30				
4,6-Dinitro-2-methylphenol	77	78	11-126	1	30				
2,4-Dinitrophenol	43	45	20-143	4	30				
2,4-Dinitrotoluene	96	95	56-129	1	30				
2,6-Dinitrotoluene	93	92	69-123	1	30				
1,2-Diphenylhydrazine	101	106	71-129	5	30				
bis(2-Ethylhexyl)phthalate	96	103	63-122	7	30				
Fluoranthene	93	93	73-112	0	30				
Hexachlorobenzene	99	101	77-114	2	30				
Hexachlorobutadiene	100	104	62-120	4	30				
Hexachlorocyclopentadiene	81	74	10-153	9	30				
Hexachloroethane	87	88	57-109	2	30				
Indeno(1,2,3-cd)pyrene	106	103	61-126	3	30				
Isophorone	99	97	73-102	1	30				
2-Methylphenol	92	92	75-111	0	30				
4-Methylphenol	88	89	59-123	0	30				
2-Nitroaniline	96	98	67-125	3	30				
3-Nitroaniline	89	87	59-122	2	30				
4-Nitroaniline	71	65	41-109	9	30				
Nitrobenzene	105	103	57-125	2	30				
2-Nitrophenol	95	94	56-127	1	30				
4-Nitrophenol	92	88	37-129	4	30				
N-Nitroso-di-n-propylamine	91	87	60-116	4	30				
N-Nitrosodiphenylamine	99	102	71-122	3	30				
Di-n-octylphthalate	105	105	56-126	0	30				
Pentachlorophenol	72	66	28-127	9	30				
Phenanthrene	93	95	65-125	2	30				
Phenol	91	87	58-126	5	30				
Pyrene	98	101	74-126	3	30				
Tetralin	0*	0*	70-130	0	30				
1,2,4-Trichlorobenzene	96	95	72-115	0	30				
2,4,5-Trichlorophenol	99	94	58-129	6	30				
2,4,6-Trichlorophenol	95	94	56-134	0	30				
Batch number: 11215SLC026	Sample number(s): 6354150-6354166 UNSPK: 6354150								
Acenaphthene	96	95	63-105	0	30				
Acenaphthylene	91	91	67-114	0	30				
Anthracene	96	97	73-115	1	30				
Benzo(a)anthracene	99	102	59-128	3	30				
Benzo(a)pyrene	79	81	58-142	3	30				
Benzo(b)fluoranthene	82	88	54-163	6	30				
Benzo(g,h,i)perylene	60	52	33-141	14	30				
Benzo(k)fluoranthene	83	87	57-153	5	30				
Butylbenzylphthalate	121	127	57-173	5	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258012
Reported: 09/06/11 at 10:50 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Di-n-butylphthalate	255*	118	65-148	73*	30				
Chrysene	98	103	67-123	5	30				
Dibenz(a,h)anthracene	68	63	22-133	8	30				
Diethylphthalate	67*	66*	70-136	1	30				
Dimethylphthalate	96	98	74-118	2	30				
Bis(2-Ethylhexyl)phthalate	111	113	39-167	2	30				
Fluoranthene	108	115	51-149	6	30				
Fluorene	96	95	66-122	0	30				
Indeno(1,2,3-cd)pyrene	68	62	21-143	10	30				
1-Methylnaphthalene	87	85	72-123	2	30				
2-Methylnaphthalene	85	84	64-103	1	30				
Naphthalene	87	86	61-102	1	30				
N-Nitrosodimethylamine	85	86	48-113	1	30				
Di-n-octylphthalate	96	102	40-192	7	30				
Phenanthrene	92	96	62-122	4	30				
Pyrene	98	105	51-131	6	30				
Batch number: 112140015A	Sample number(s): 6354150 UNSPK: P353026								
4-Amino-2,6-Dinitrotoluene	111	106	80-127	4	50				
2-Amino-4,6-Dinitrotoluene	108	105	80-137	2	50				
1,3-Dinitrobenzene	109	109	38-166	0	50				
2,4-Dinitrotoluene	104	101	80-131	2	50				
2,6-Dinitrotoluene	112	104	80-127	7	50				
HMX	95	91	63-128	4	50				
Nitrobenzene	92	104	80-125	12	50				
Nitroglycerin	87	84	80-120	4	50				
2-Nitrotoluene	106	102	80-122	4	50				
3-Nitrotoluene	114	111	72-119	3	50				
4-Nitrotoluene	105	102	80-125	4	50				
PETN	104	102	80-121	3	50				
RDX	93	90	75-129	3	50				
Tetryl	109	83	55-174	27	50				
1,3,5-Trinitrobenzene	105	101	82-126	4	50				
2,4,6-Trinitrotoluene	112	108	82-130	4	50				
Batch number: 112070008A	Sample number(s): 6354150 UNSPK: P353026								
20a Formaldehyde 8315A	100	93	80-120	7	50				
Batch number: 112150006A	Sample number(s): 6354150-6354158 UNSPK: P353026								
2,4-D	84	56	17-180	39*	35				
Dalapon	32	41	10-125	27	50				
2,4-DB	95	106	10-201	11	50				
Dicamba	0*	84	10-190	200*	50				
Dinoseb	0*	7*	10-46	200*	35				
2,4-DP (Dichlorprop)	84	96	33-178	14	50				
MCPA	55	12	10-213	127*	50				
MCPP (Mecoprop)	84	83	10-184	0	50				
2,4,5-T	29	30	10-156	4	35				
2,4,5-TP	39	37	24-141	3	35				
Batch number: 112140035A	Sample number(s): 6354151,6354154,6354159-6354166 UNSPK: P353032								
6a Perchlorate EPA 6850	119	120	80-120	1	20				

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Quality Control Summary

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Reported: 09/06/11 at 10:50 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112150007A	Sample number(s): 6354150-6354158 UNSPK: 6354150								
Aldrin	103	85	16-126	19	50				
Alpha BHC	82	79	10-129	4	50				
Beta BHC	119	100	14-147	17	50				
Gamma BHC - Lindane	106	97	10-140	6	50				
p,p-DDD	69	67	16-163	2	50				
p,p-DDE	105	97	18-161	3	50				
p,p-DDT	51	31	10-176	6	50				
Delta BHC	109	72	23-140	22	50				
Dieldrin	99	87	19-154	13	50				
Endosulfan I	94	82	16-137	13	50				
Endosulfan II	89	86	28-154	4	50				
Endosulfan Sulfate	58	55	21-160	5	50				
Endrin	90	81	11-149	11	50				
Endrin Aldehyde	95	86	10-148	10	35				
Endrin Ketone	77	70	22-165	10	50				
Heptachlor	100	94	13-126	6	50				
Heptachlor Epoxide	91	82	13-157	11	50				
Methoxychlor	89	76	32-147	16	50				
Batch number: 112150010A	Sample number(s): 6354150-6354166 UNSPK: 6354150								
PCB-1016	88	98	29-146	11	50				
PCB-1260	89	122	39-149	22	50				
Batch number: 112060001A	Sample number(s): 6354150,6354159-6354166 UNSPK: 6354150								
Diethylene glycol	22*	27*	59-109	21*	20				
Ethylene glycol	48*	53*	63-107	10	20				
Propylene glycol	62*	66	63-107	7	20				
Batch number: 112080025A	Sample number(s): 6354150,6354159-6354166 UNSPK: 6354150								
Ethanol	87	85	48-130	2	20				
Isopropanol	91	91	12-149	0	20				
Methanol	86	86	43-138	0	20				
Batch number: 112140032A	Sample number(s): 6354150,6354159-6354166 UNSPK: P353026								
m-Terphenyl	80	80	75-125	0	20				
o-Terphenyl	101	102	75-125	1	20				
p-Terphenyl	89	89	75-125	0	20				
Batch number: 112150001A	Sample number(s): 6354150,6354159-6354166 UNSPK: 6354150								
EFH (C12-C14)	100	98	49-123	2	20				
EFH (C15-C20)	146*	165*	49-123	12	20				
EFH (C21-C30)	100	81	49-123	5	20				
EFH (C30 - C40)	276 (2)	260 (2)	49-123	2	20				
EFH (C8-C11)	100	101	49-123	1	20				
Batch number: 112131026001A	Sample number(s): 6354150-6354166 UNSPK: 6354150 BKG: 6354150								
Antimony	50*	48*	75-125	3	20	0.362	0.164 J	76* (1)	20
Arsenic	49*	28*	75-125	6	20	5.85	3.66	46*	20
Beryllium	109	109	75-125	0	20	0.670	0.435	43* (1)	20
Cadmium	107	106	75-125	1	20	0.412	0.230	57* (1)	20
Chromium	46*	39*	75-125	3	20	22.4	13.7	48*	20
Cobalt	109	111	75-125	1	20	6.65	4.27	44*	20

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Quality Control Summary

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Reported: 09/06/11 at 10:50 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Copper	64*	62*	75-125	1	20	14.4	7.96	58*	20
Lead	70 (2)	48 (2)	75-125	5	20	12.5	9.22	30*	20
Nickel	-604 (2)	-604 (2)	75-125	2	20	83.8	11.0	154*	20
Silver	67*	71*	75-125	2	20	5.34	0.181	187* (1)	20
Thallium	99	98	75-125	1	20	0.278	0.187	39* (1)	20
Vanadium	32*	10*	75-125	6	20	37.6	25.2	39*	20
Zinc	26 (2)	-182 (2)	75-125	16	20	133	90.3	38*	20
Batch number: 112131026001B	Sample number(s): 6354150-6354166 UNSPK: 6354150 BKG: 6354150								
Selenium	119	117	75-125	2	20	0.158 J	0.104 J	41* (1)	20
Batch number: 112131026001C	Sample number(s): 6354150-6354166 UNSPK: 6354150 BKG: 6354150								
Molybdenum	110	117	75-125	5	20	1.32	0.391	109* (1)	20
Batch number: 112131026001D	Sample number(s): 6354150-6354166 UNSPK: 6354150 BKG: 6354150								
Barium	-124 (2)	-120 (2)	75-125	1	20	106	66.0	46*	20
Batch number: 112135708002	Sample number(s): 6354150-6354166 UNSPK: 6354150 BKG: 6354150								
Aluminum	1638 (2)	1041 (2)	75-125	9	20	10,900	10,800	1	20
Boron	100	98	84-115	2	20	2.61 J	2.51 J	4 (1)	20
Calcium	184 (2)	134 (2)	75-125	8	20	1,920	1,840	4	20
Iron	558 (2)	-208 (2)	75-125	5	20	15,200	14,600	4	20
Lithium	102	99	82-114	3	20	17.6	18.1	3	20
Magnesium	334 (2)	172 (2)	75-125	9	20	3,200	3,200	0	20
Manganese	174 (2)	74 (2)	75-125	17	20	234	272	15	20
Phosphorus	100	73*	75-125	6	20	342	315	8	20
Potassium	123	116	75-125	2	20	2,570	2,560	0	20
Sodium	98	96	75-125	2	20	60.6 J	59.5 J	2 (1)	20
Strontium	99	98	75-115	2	20	13.2	13.0	1	20
Tin	88	88	80-110	0	20	2.43 J	2.28 J	7 (1)	20
Zirconium	95	94	75-125	1	20	2.40 J	2.48 J	3 (1)	20
Batch number: 112135711002	Sample number(s): 6354150-6354166 UNSPK: 6354150 BKG: 6354150								
Mercury	103	104	65-135	2	20	0.0068 U	0.0068 U	0 (1)	20
Batch number: 112155708001	Sample number(s): 6354150-6354166 UNSPK: 6354150 BKG: 6354150								
Titanium	170 (2)	153 (2)	75-125	2	20	827	856	3	20
Batch number: 11209284201A	Sample number(s): 6354150-6354159 UNSPK: 6354154 BKG: 6354154								
7a Perchlorate EPA 314.0	100		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11209284201B	Sample number(s): 6354160-6354166 UNSPK: 6354162 BKG: 6354162								
7a Perchlorate EPA 314.0	102		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11215102201A	Sample number(s): 6354150 UNSPK: P353026 BKG: P353026								
16a Cyanide by 9012B	103		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11215243202A	Sample number(s): 6354150-6354166 UNSPK: 6354151 BKG: 6354151								

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Quality Control Summary

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Reported: 09/06/11 at 10:50 AM

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
3a Cr VI by EPA 7199	81		75-125			0.63	J	0.70	J	11 (1)	20
Batch number: 11216621201A	Sample number(s): 6354150-6354159 UNSPK: 6354150 BKG: 6354150										
11a Anions by 300.0 - Fluoride	81		80-120			1.2		1.2		1 (1)	20
11a Anions by 300.0 - Nitrate	101		80-120			2.3		2.1		6 (1)	20
Batch number: 11216621201B	Sample number(s): 6354160-6354166 UNSPK: 6354160 BKG: 6354160										
11a Anions by 300.0 - Fluoride	101		80-120			2.9		3.6		21* (1)	20
Batch number: 11214039403A	Sample number(s): 6354150-6354158 BKG: 6354150										
17a pH by 9045C						6.72		6.80		1	3
Batch number: 11214039403B	Sample number(s): 6354159-6354166 BKG: 6354159										
17a pH by 9045C						8.63		8.75		1	3
Batch number: 11210162401A	Sample number(s): 6354151-6354159 BKG: 6354159										
Moisture Content by 160.3						5.7		5.7		1	20
Batch number: 11210162401B	Sample number(s): 6354160-6354166 BKG: 6354162										
Moisture Content by 160.3						8.8		8.1		8	20
Batch number: 11222162401A	Sample number(s): 6354150 BKG: P353026										
Moisture Content by 160.3						1.9		1.9		1 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21a NDMA by 1625C
Batch number: 11213SLA026

	N-Nitrosodimethylamine-d6
6354150	85
Blank	114
LCS	103
MS	76
MSD	79
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11214SLN026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6354150	97	89	88	91	91	82
6354151	99	91	88	94	94	86
6354152	93	85	85	88	88	82
6354153	102	94	84	99	95	82

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258012
Reported: 09/06/11 at 10:50 AM

Surrogate Quality Control

6354154	97	89	85	92	95	84
6354155	106	96	84	97	95	83
6354156	95	86	76	90	89	80
6354157	103	92	86	97	94	87
6354158	101	89	75	93	92	87
6354159	97	88	80	89	90	82
6354160	89	81	67	82	80	78
6354161	103	96	94	95	95	84
6354162	90	83	98	92	92	87
6354163	95	88	86	96	96	88
6354164	94	78	40	93	91	88
6354165	94	87	91	89	89	78
6354166	97	88	87	90	90	81
Blank	77	72	68	77	73	67
LCS	87	81	80	85	79	73
MS	98	91	90	95	90	82
MSD	95	88	89	95	90	85
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11215SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6354150	103	94	94
6354151	101	91	97
6354152	95	88	95
6354153	106	99	107
6354154	96	89	93
6354155	98	90	96
6354156	100	90	98
6354157	101	92	95
6354158	99	90	97
6354159	93	88	98
6354160	95	88	98
6354161	94	87	98
6354162	101	92	101
6354163	89	87	85
6354164	82	77	78
6354165	82	78	74
6354166	98	96	88
Blank	82	77	90
LCS	99	86	90
MS	95	87	91
MSD	98	88	93
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11206A34A

	Trifluorotoluene-F
6354159	83
6354160	75
6354161	77
6354162	80
6354163	79
6354164	76

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Quality Control Summary

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Reported: 09/06/11 at 10:50 AM

Surrogate Quality Control

6354165	72
6354166	77
Blank	80
LCS	89
LCSD	85
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11206C20A

	Trifluorotoluene-F
6354167	98
Blank	97
LCS	130
LCSD	134
Limits:	63-135

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112070008A

	Butyraldehyde
6354150	109
Blank	108
LCS	112
MS	112
MSD	103
Limits:	64-126

Analysis Name: 15a Energetics by 8330A
Batch number: 112140015A

	2-Nitro-m-xylene
6354150	121
Blank	121
LCS	110
LCSD	106
MS	106
MSD	103
Limits:	80-146

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112150006A

	2,4-Dichlorophenylacetic acid
6354150	80
6354151	76
6354152	85
6354153	72
6354154	67
6354155	107
6354156	103
6354157	82

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Quality Control Summary

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Reported: 09/06/11 at 10:50 AM

Surrogate Quality Control

6354158	100	
Blank	93	
LCS	101	
MS	81	
MSD	86	
Limits:	36-156	

Analysis Name: 12a Pesticides by 8081A
Batch number: 112150007A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6354150	113	76
6354151	81	72
6354152	75	64
6354153	77	48
6354154	81	81
6354155	67	71
6354156	74	74
6354157	72	87
6354158	74	65
Blank	86	98
LCS	89	99
MS	113	84
MSD	107	60
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112150010A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6354150	110	54
6354151	105	92
6354152	102	92
6354153	93	70
6354154	109	84
6354155	95	79
6354156	107	92
6354157	97	82
6354158	99	93
6354159	91	105
6354160	106	99
6354161	106	89
6354162	105	89
6354163	108	83
6354164	97	107
6354165	101	85
6354166	93	178*
Blank	104	103
LCS	105	102
LCSD	103	100
MS	106	45
MSD	120	61
Limits:	53-139	45-120

Analysis Name: 19a Glycols by 8015B

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258012
Reported: 09/06/11 at 10:50 AM

Surrogate Quality Control

Batch number: 112060001A

	Tetramethylene glycol
6354150	87
6354159	89
6354160	92
6354161	92
6354162	90
6354163	88
6354164	88
6354165	89
6354166	89
Blank	101
LCS	101
MS	92
MSD	92
Limits:	29-137

Analysis Name: 18a Alcohols by 8015B
Batch number: 112080025A

	Acetone
6354150	98
6354159	92
6354160	86
6354161	93
6354162	88
6354163	92
6354164	90
6354165	91
6354166	90
Blank	102
LCS	98
MS	105
MSD	105
Limits:	42-138

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112140032A

	n-Triacontane-d62
6354150	77
6354159	41*
6354160	75
6354161	78
6354162	80
6354163	83
6354164	63
6354165	77
6354166	58
Blank	83
LCS	83
MS	66
MSD	65

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258012
Reported: 09/06/11 at 10:50 AM

Surrogate Quality Control

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112150001A

	Chlorobenzene	Orthoterphenyl
6354150	71	90
6354159	57	77
6354160	72	90
6354161	73	92
6354162	69	88
6354163	73	91
6354164	70	119
6354165	72	91
6354166	63	89
Blank	81	91
LCS	82	93
MS	79	96
MSD	76	94
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1253012 Sample# 6354150-67

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C. Samplers Signatures:						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																					
SL-233-SA6-SS-0.0-0.5	7/22/11	0809	SOIL	NONE	1-SS Sleeve			X	X																	
SL-233-SA6-SS-0.0-0.5	7/22/11	0809	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X		
SL-238-SA6-SS-0.0-0.5	7/22/11	0856	SOIL	NONE	1-SS Sleeve			X	X																	
SL-238-SA6-SS-0.0-0.5	7/22/11	0856	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X	X	X	X										
SL-241-SA6-SS-0.0-0.5	7/22/11	1125	SOIL	NONE	1-SS Sleeve			X	X																	
SL-241-SA6-SS-0.0-0.5	7/22/11	1125	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
SL-242-SA6-SS-0.0-0.5	7/22/11	1527	SOIL	NONE	1-SS Sleeve			X	X																	
SL-242-SA6-SS-0.0-0.5	7/22/11	1527	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
SL-243-SA6-SS-0.0-0.5	7/22/11	1452	SOIL	NONE	1-SS Sleeve			X	X																	
SL-243-SA6-SS-0.0-0.5	7/22/11	1452	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X	X	X	X										
SL-244-SA6-SS-0.0-0.5	7/22/11	1508	SOIL	NONE	1-SS Sleeve			X	X																	
SL-244-SA6-SS-0.0-0.5	7/22/11	1508	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
SL-307-SA6-SS-0.0-0.5	7/22/11	1412	SOIL	NONE	1-SS Sleeve			X	X																	
SL-307-SA6-SS-0.0-0.5	7/22/11	1412	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
SL-308-SA6-SS-0.0-0.5	7/22/11	1354	SOIL	NONE	1-SS Sleeve			X	X																	
SL-308-SA6-SS-0.0-0.5	7/22/11	1354	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
SL-309-SA6-SS-0.0-0.5	7/22/11	1435	SOIL	NONE	1-SS Sleeve			X	X																	
SL-309-SA6-SS-0.0-0.5	7/22/11	1435	SOIL	NONE	1-16 oz.jar	X	X			X	X	X	X		X	X										
Relinquished by: (Signature)	Date/Time 07/22/2011 / 1600	Received for Laboratory by: (Signature) 7/23/11 0715																							Laboratory: Lancaster Laboratories, Inc.	
Received by: (Signature)	Date/Time	Airbill No.(s) 8754 3341 0715,0704																								

acct# 13013 Qp# 1253012 sample# 6354150-67

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs-PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-082-SA6-SB-4.5	7/22/11	0955	SOIL	NONE	5-Encores										X	X	X										
SL-082-SA6-SB-4.0-5.0	7/22/11	1000	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-082-SA6-SB-9.5	7/22/11	1005	SOIL	NONE	1-Encore												X										
SL-082-SA6-SB-9.0-10.0	7/22/11	1010	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-103-SA6-SB-4.5	7/22/11	0830	SOIL	NONE	5-Encores												X										
SL-103-SA6-SB-4.0-5.0	7/22/11	0835	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-103-SA6-SB-9.5	7/22/11	0840	SOIL	NONE	1-Encore										X	X	X										
SL-103-SA6-SB-9.0-10.0	7/22/11	0845	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-124-SA6-SB-4.5	7/22/11	1140	SOIL	NONE	5-Encores										X	X	X										
SL-124-SA6-SB-4.0-5.0	7/22/11	1145	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-124-SA6-SB-13.0	7/22/11	1150	SOIL	NONE	1-Encore												X										
SL-124-SA6-SB-12.5-13.5	7/22/11	1155	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-075-SA6-SB-4.5	7/22/11	1500	SOIL	NONE	1-Encores												X										per new protocol, only TPH
SL-075-SA6-SB-4.0-5.0	7/22/11	1505	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-075-SA6-SB-9.5	7/22/11	1510	SOIL	NONE	1-Encore												X										
SL-075-SA6-SB-9.0-10.0	7/22/11	1515	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
TB-072211	7/22/11	0800	SOIL	NONE	4-40mL Vials										X	X	X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	~~07/22/2011~~ / 1600	7/23/11 0915	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3341 0715,0704	

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Friday, July 22, 2011 7:13 PM
To: Nicole Maljovec
Subject: Todays COC 7/22/11

Hi Nicole

The COC I sent along with the coolers has VOCs and 1,4 Dioxane checked for anlysis. These have been removed and are no longer included with our primary or secondary suites. We will keep the TPH though.

The COC I emailed to everyone has the correct selections, so please disregard the one inside the coolers.

Thank you very much and have a great weekend!!

Pam

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS										SECONDARY FOR ALL LOCATIONS								
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chromium EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by LPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde LPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B
SL-082-SA6-SB-4.5	7/22/11	0955	SOIL	NONE	5-Encores										X									
SL-082-SA6-SB-4.0-5.0	7/22/11	1000	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X	X		X						X	X	X
SL-082-SA6-SB-9.5	7/22/11	1005	SOIL	NONE	1-Encore										X									
SL-082-SA6-SB-9.0-10.0	7/22/11	1010	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X			X						X	X	X
SL-103-SA6-SB-4.5	7/22/11	0830	SOIL	NONE	5-Encores										X									
SL-103-SA6-SB-4.0-5.0	7/22/11	0835	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X	X		X						X	X	X
SL-103-SA6-SB-9.5	7/22/11	0840	SOIL	NONE	1-Encore										X									
SL-103-SA6-SB-9.0-10.0	7/22/11	0845	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X			X						X	X	X
SL-124-SA6-SB-4.5	7/22/11	1140	SOIL	NONE	5-Encores										X									
SL-124-SA6-SB-4.0-5.0	7/22/11	1145	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X	X		X						X	X	X
SL-124-SA6-SB-13.0	7/22/11	1150	SOIL	NONE	1-Encore										X									
SL-124-SA6-SB-12.5-13.5	7/22/11	1155	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X			X						X	X	X
SL-075-SA6-SB-4.5	7/22/11	1500	SOIL	NONE	1-Encores										X									
SL-075-SA6-SB-4.0-5.0	7/22/11	1505	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X	X		X						X	X	X
SL-075-SA6-SB-9.5	7/22/11	1510	SOIL	NONE	1-Encore										X									
SL-075-SA6-SB-9.0-10.0	7/22/11	1515	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X	X		X						X	X	X
TB-072211	7/22/11	0800	WATER	HCL	4-40mL Vials										X									

Other Instructions and Notes
Amended COC

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	07/22/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3341 0715,0704	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 14, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/23/2011
Group Number: 1258015
SDG: DX117
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-233-SA6-SS-0.0-0.5 Soil	6354170
SL-238-SA6-SS-0.0-0.5 Soil	6354171
SL-241-SA6-SS-0.0-0.5 Soil	6354172
SL-242-SA6-SS-0.0-0.5 Soil	6354173
SL-243-SA6-SS-0.0-0.5 Soil	6354174
SL-244-SA6-SS-0.0-0.5 Soil	6354175

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-233-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA6-SS-0.0-0.5

LLI Sample # SW 6354170
LLI Group # 1258015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:09

Submitted: 07/23/2011 09:15
Reported: 08/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1715 SDG#: DX117-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.85	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-233-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA6-SS-0.0-0.5

LLI Sample # SW 6354170
LLI Group # 1258015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:09

Submitted: 07/23/2011 09:15
Reported: 08/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1715 SDG#: DX117-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.179	JQ	0.0289	0.997	1
11031	12378-PeCDD	40321-76-4	3.29	JB	0.0479	4.98	1
11031	123478-HxCDD	39227-28-6	1.29	JB	0.0682	4.98	1
11031	123678-HxCDD	57653-85-7	4.85	JB	0.0667	4.98	1
11031	123789-HxCDD	19408-74-3	2.06	JB	0.0670	4.98	1
11031	1234678-HpCDD	35822-46-9	133	B	0.121	4.98	1
11031	OCDD	3268-87-9	1,410	B	0.120	9.97	1
11031	2378-TCDF	51207-31-9	0.358	JB	0.0599	0.997	1
11031	12378-PeCDF	57117-41-6	2.11	JB	0.0354	4.98	1
11031	23478-PeCDF	57117-31-4	0.625	JB	0.0364	4.98	1
11031	123478-HxCDF	70648-26-9	1.46	JB	0.0489	4.98	1
11031	123678-HxCDF	57117-44-9	1.27	J	0.0415	4.98	1
11031	123789-HxCDF	72918-21-9	0.294	JB	0.0594	4.98	1
11031	234678-HxCDF	60851-34-5	1.79	JB	0.0463	4.98	1
11031	1234678-HpCDF	67562-39-4	30.9	B	0.0352	4.98	1
11031	1234789-HpCDF	55673-89-7	3.18	JB	0.0762	4.98	1
11031	OCDF	39001-02-0	88.9	B	0.0606	9.97	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	90	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	107	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	62	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-233-SA6-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-233-SA6-SS-0.0-0.5

LLI Sample # SW 6354170
LLI Group # 1258015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:09

Submitted: 07/23/2011 09:15
Reported: 08/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1715 SDG#: DX117-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-233-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA6-SS-0.0-0.5

LLI Sample # SW 6354170
LLI Group # 1258015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:09

Submitted: 07/23/2011 09:15
Reported: 08/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1715 SDG#: DX117-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11215001	08/07/2011 13:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11215001	08/03/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-238-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-238-SA6-SS-0.0-0.5

LLI Sample # SW 6354171
LLI Group # 1258015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:56

Submitted: 07/23/2011 09:15
Reported: 08/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1716 SDG#: DX117-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-238-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-238-SA6-SS-0.0-0.5

LLI Sample # SW 6354171
LLI Group # 1258015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:56

Submitted: 07/23/2011 09:15
Reported: 08/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1716 SDG#: DX117-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0344	JQ	0.0271	0.983	1
11031	12378-PeCDD	40321-76-4	0.176	JBQ	0.0301	4.91	1
11031	123478-HxCDD	39227-28-6	0.211	JB	0.0367	4.91	1
11031	123678-HxCDD	57653-85-7	0.637	JB	0.0364	4.91	1
11031	123789-HxCDD	19408-74-3	0.526	JB	0.0343	4.91	1
11031	1234678-HpCDD	35822-46-9	14.2	B	0.0746	4.91	1
11031	OCDD	3268-87-9	139	B	0.0824	9.83	1
11031	2378-TCDF	51207-31-9	0.259	JB	0.0435	0.983	1
11031	12378-PeCDF	57117-41-6	0.426	JBQ	0.0250	4.91	1
11031	23478-PeCDF	57117-31-4	0.394	JBQ	0.0269	4.91	1
11031	123478-HxCDF	70648-26-9	0.473	JB	0.0324	4.91	1
11031	123678-HxCDF	57117-44-9	0.200	J	0.0278	4.91	1
11031	123789-HxCDF	72918-21-9	0.244	JB	0.0381	4.91	1
11031	234678-HxCDF	60851-34-5	0.312	JB	0.0312	4.91	1
11031	1234678-HpCDF	67562-39-4	2.62	JB	0.0199	4.91	1
11031	1234789-HpCDF	55673-89-7	0.280	JBQ	0.0464	4.91	1
11031	OCDF	39001-02-0	5.97	JB	0.0455	9.83	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	51	26 - 138
13C12-OCDF	52	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-238-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-238-SA6-SS-0.0-0.5

LLI Sample # SW 6354171
LLI Group # 1258015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:56

Submitted: 07/23/2011 09:15
Reported: 08/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1716 SDG#: DX117-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-238-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-238-SA6-SS-0.0-0.5

LLI Sample # SW 6354171
LLI Group # 1258015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:56

Submitted: 07/23/2011 09:15
Reported: 08/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1716 SDG#: DX117-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11215001	08/07/2011 14:23	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11215001	08/03/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401A	07/29/2011 21:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-241-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-241-SA6-SS-0.0-0.5

LLI Sample # SW 6354172
LLI Group # 1258015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:25

Submitted: 07/23/2011 09:15
Reported: 08/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1717 SDG#: DX117-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.88	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-241-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-241-SA6-SS-0.0-0.5

LLI Sample # SW 6354172
LLI Group # 1258015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:25

Submitted: 07/23/2011 09:15
Reported: 08/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1717 SDG#: DX117-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0427	J	0.0253	0.987	1
11031	12378-PeCDD	40321-76-4	0.277	JBQ	0.0360	4.94	1
11031	123478-HxCDD	39227-28-6	0.638	JBQ	0.0502	4.94	1
11031	123678-HxCDD	57653-85-7	1.33	JB	0.0512	4.94	1
11031	123789-HxCDD	19408-74-3	1.13	JB	0.0481	4.94	1
11031	1234678-HpCDD	35822-46-9	40.0	B	0.0812	4.94	1
11031	OCDD	3268-87-9	628	B	0.0925	9.87	1
11031	2378-TCDF	51207-31-9	0.105	JBQ	0.0331	0.987	1
11031	12378-PeCDF	57117-41-6	0.182	JB	0.0270	4.94	1
11031	23478-PeCDF	57117-31-4	0.277	JBQ	0.0258	4.94	1
11031	123478-HxCDF	70648-26-9	0.566	JB	0.0344	4.94	1
11031	123678-HxCDF	57117-44-9	0.514	J	0.0306	4.94	1
11031	123789-HxCDF	72918-21-9	0.203	JBQ	0.0405	4.94	1
11031	234678-HxCDF	60851-34-5	0.611	JB	0.0322	4.94	1
11031	1234678-HpCDF	67562-39-4	11.7	B	0.0290	4.94	1
11031	1234789-HpCDF	55673-89-7	0.739	JB	0.0467	4.94	1
11031	OCDF	39001-02-0	26.2	B	0.0415	9.87	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	68	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-241-SA6-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-241-SA6-SS-0.0-0.5

LLI Sample # SW 6354172
LLI Group # 1258015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:25

Submitted: 07/23/2011 09:15
Reported: 08/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1717 SDG#: DX117-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-241-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-241-SA6-SS-0.0-0.5

LLI Sample # SW 6354172
LLI Group # 1258015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:25

Submitted: 07/23/2011 09:15
Reported: 08/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1717 SDG#: DX117-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11215001	08/07/2011 20:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11215001	08/03/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401A	07/29/2011 21:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-242-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-242-SA6-SS-0.0-0.5

LLI Sample # SW 6354173
LLI Group # 1258015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:27

Submitted: 07/23/2011 09:15
Reported: 08/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1718 SDG#: DX117-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.90	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-242-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-242-SA6-SS-0.0-0.5

LLI Sample # SW 6354173
LLI Group # 1258015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:27

Submitted: 07/23/2011 09:15
Reported: 08/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1718 SDG#: DX117-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0508	JQ	0.0360	1.00	1
11031	12378-PeCDD	40321-76-4	0.356	JBQ	0.0459	5.01	1
11031	123478-HxCDD	39227-28-6	0.664	JB	0.0668	5.01	1
11031	123678-HxCDD	57653-85-7	1.62	JB	0.0679	5.01	1
11031	123789-HxCDD	19408-74-3	1.50	JB	0.0657	5.01	1
11031	1234678-HpCDD	35822-46-9	53.6	B	0.0842	5.01	1
11031	OCDD	3268-87-9	528	B	0.105	10.0	1
11031	2378-TCDF	51207-31-9	0.228	JB	0.0531	1.00	1
11031	12378-PeCDF	57117-41-6	0.353	JBQ	0.0443	5.01	1
11031	23478-PeCDF	57117-31-4	0.364	JB	0.0395	5.01	1
11031	123478-HxCDF	70648-26-9	0.863	JB	0.0471	5.01	1
11031	123678-HxCDF	57117-44-9	0.710	J	0.0453	5.01	1
11031	123789-HxCDF	72918-21-9	0.355	JB	0.0461	5.01	1
11031	234678-HxCDF	60851-34-5	0.809	JB	0.0427	5.01	1
11031	1234678-HpCDF	67562-39-4	17.0	B	0.0356	5.01	1
11031	1234789-HpCDF	55673-89-7	1.04	JB	0.0496	5.01	1
11031	OCDF	39001-02-0	31.0	B	0.0451	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	99	23 - 140
13C12-OCDD	96	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	84	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	97	29 - 147
13C12-1234678-HpCDF	104	28 - 143
13C12-1234789-HpCDF	93	26 - 138
13C12-OCDF	89	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-242-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-242-SA6-SS-0.0-0.5

LLI Sample # SW 6354173
LLI Group # 1258015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:27

Submitted: 07/23/2011 09:15
Reported: 08/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1718 SDG#: DX117-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-242-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-242-SA6-SS-0.0-0.5

LLI Sample # SW 6354173
LLI Group # 1258015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:27

Submitted: 07/23/2011 09:15
Reported: 08/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1718 SDG#: DX117-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11215001	08/07/2011 21:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11215001	08/03/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401A	07/29/2011 21:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-243-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-243-SA6-SS-0.0-0.5

LLI Sample # SW 6354174
LLI Group # 1258015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:52

Submitted: 07/23/2011 09:15
Reported: 08/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1719 SDG#: DX117-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.71	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-243-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-243-SA6-SS-0.0-0.5

LLI Sample # SW 6354174
LLI Group # 1258015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:52

Submitted: 07/23/2011 09:15
Reported: 08/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1719 SDG#: DX117-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0775	JQ	0.0331	0.971	1
11031	12378-PeCDD	40321-76-4	1.02	JB	0.0541	4.86	1
11031	123478-HxCDD	39227-28-6	1.41	JB	0.0522	4.86	1
11031	123678-HxCDD	57653-85-7	3.55	JB	0.0525	4.86	1
11031	123789-HxCDD	19408-74-3	3.24	JB	0.0542	4.86	1
11031	1234678-HpCDD	35822-46-9	76.0	B	0.103	4.86	1
11031	OCDD	3268-87-9	797	B	0.109	9.71	1
11031	2378-TCDF	51207-31-9	0.282	JBQ	0.0532	0.971	1
11031	12378-PeCDF	57117-41-6	0.541	JB	0.0333	4.86	1
11031	23478-PeCDF	57117-31-4	0.755	JB	0.0358	4.86	1
11031	123478-HxCDF	70648-26-9	1.09	JB	0.0441	4.86	1
11031	123678-HxCDF	57117-44-9	0.823	J	0.0356	4.86	1
11031	123789-HxCDF	72918-21-9	0.431	JB	0.0518	4.86	1
11031	234678-HxCDF	60851-34-5	1.01	JB	0.0396	4.86	1
11031	1234678-HpCDF	67562-39-4	10.9	B	0.0303	4.86	1
11031	1234789-HpCDF	55673-89-7	1.03	JB	0.0667	4.86	1
11031	OCDF	39001-02-0	30.7	B	0.0632	9.71	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	51	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-243-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-243-SA6-SS-0.0-0.5

LLI Sample # SW 6354174
LLI Group # 1258015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:52

Submitted: 07/23/2011 09:15
Reported: 08/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1719 SDG#: DX117-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-243-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-243-SA6-SS-0.0-0.5

LLI Sample # SW 6354174
LLI Group # 1258015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:52

Submitted: 07/23/2011 09:15
Reported: 08/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1719 SDG#: DX117-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11215001	08/07/2011 22:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11215001	08/03/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401A	07/29/2011 21:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-244-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-244-SA6-SS-0.0-0.5

LLI Sample # SW 6354175
LLI Group # 1258015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:08

Submitted: 07/23/2011 09:15
Reported: 08/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1720 SDG#: DX117-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.85	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-244-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-244-SA6-SS-0.0-0.5

LLI Sample # SW 6354175
LLI Group # 1258015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:08

Submitted: 07/23/2011 09:15
Reported: 08/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1720 SDG#: DX117-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0998	J	0.0308	0.979	1
11031	12378-PeCDD	40321-76-4	0.538	JB	0.0435	4.90	1
11031	123478-HxCDD	39227-28-6	0.772	JB	0.0547	4.90	1
11031	123678-HxCDD	57653-85-7	2.42	JB	0.0538	4.90	1
11031	123789-HxCDD	19408-74-3	1.62	JB	0.0516	4.90	1
11031	1234678-HpCDD	35822-46-9	66.4	B	0.103	4.90	1
11031	OCDD	3268-87-9	898	B	0.117	9.79	1
11031	2378-TCDF	51207-31-9	0.486	JB	0.0883	0.979	1
11031	12378-PeCDF	57117-41-6	0.905	JB	0.0486	4.90	1
11031	23478-PeCDF	57117-31-4	1.53	JB	0.0496	4.90	1
11031	123478-HxCDF	70648-26-9	2.21	JB	0.0508	4.90	1
11031	123678-HxCDF	57117-44-9	0.817	J	0.0435	4.90	1
11031	123789-HxCDF	72918-21-9	0.510	JBQ	0.0603	4.90	1
11031	234678-HxCDF	60851-34-5	1.07	JB	0.0481	4.90	1
11031	1234678-HpCDF	67562-39-4	15.1	B	0.0332	4.90	1
11031	1234789-HpCDF	55673-89-7	1.21	JB	0.0648	4.90	1
11031	OCDF	39001-02-0	38.8	B	0.0597	9.79	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	57	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-244-SA6-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-244-SA6-SS-0.0-0.5

LLI Sample # SW 6354175
LLI Group # 1258015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:08

Submitted: 07/23/2011 09:15
Reported: 08/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1720 SDG#: DX117-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-244-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-244-SA6-SS-0.0-0.5

LLI Sample # SW 6354175
LLI Group # 1258015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:08

Submitted: 07/23/2011 09:15
Reported: 08/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1720 SDG#: DX117-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11215001	08/07/2011 23:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11215001	08/03/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401A	07/29/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258015
Reported: 08/14/11 at 02:35 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11210162401A	Sample number(s): 6354171-6354175								
Moisture Content by 160.3					100		80-120		
Batch number: 11222162401A	Sample number(s): 6354170								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11215001	Sample number(s): 6354170-6354175								
2378-TCDD	0.0333 U	0.0333	1.00	ng/kg	93		67-158		
12378-PeCDD	0.0492 J	0.0290	5.00	ng/kg	94		70-142		
123478-HxCDD	0.0923 J	0.0285	5.00	ng/kg	94		70-164		
123678-HxCDD	0.0904 J	0.0275	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0884 J	0.0266	5.00	ng/kg	91		64-162		
1234678-HpCDD	1.55 J	0.0321	5.00	ng/kg	93		70-140		
OCDD	9.37 J	0.0341	10.0	ng/kg	97		78-144		
2378-TCDF	0.0312 J	0.0253	1.00	ng/kg	89		75-158		
12378-PeCDF	0.0271 J	0.0144	5.00	ng/kg	91		80-134		
23478-PeCDF	0.0505 J	0.0147	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0210 J	0.0113	5.00	ng/kg	87		72-134		
123678-HxCDF	0.00940 U	0.00940	5.00	ng/kg	88		84-130		
123789-HxCDF	0.0316 J	0.0132	5.00	ng/kg	88		78-130		
234678-HxCDF	0.0231 J	0.0106	5.00	ng/kg	90		70-156		
1234678-HpCDF	0.0375 J	0.00920	5.00	ng/kg	87		82-122		
1234789-HpCDF	0.0418 J	0.0176	5.00	ng/kg	90		78-138		
OCDF	0.101 J	0.0423	10.0	ng/kg	90		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11210162401A	Sample number(s): 6354171-6354175 BKG: P354159								
Moisture Content by 160.3						5.7	5.7	1	20
Batch number: 11222162401A	Sample number(s): 6354170 BKG: P353026								
Moisture Content by 160.3						1.9	1.9	1 (1)	20
Batch number: 11215001	Sample number(s): 6354170-6354175 UNSPK: P353217								

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258015
Reported: 08/14/11 at 02:35 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDD	92	92	67-158	3	25				
12378-PeCDD	97	99	70-142	4	25				
123478-HxCDD	94	93	70-164	2	25				
123678-HxCDD	94	94	76-134	1	25				
123789-HxCDD	91	92	64-162	3	25				
1234678-HpCDD	148 (2)	103 (2)	70-140	6	25				
OCDD	584 (2)	139 (2)	78-144	13	25				
2378-TCDF	87	92	75-158	7	25				
12378-PeCDF	91	90	80-134	1	25				
23478-PeCDF	89	90	68-160	3	25				
123478-HxCDF	88	87	72-134	1	25				
123678-HxCDF	88	88	84-130	2	25				
123789-HxCDF	90	90	78-130	3	25				
234678-HxCDF	89	90	70-156	3	25				
1234678-HpCDF	107	97	82-122	3	25				
1234789-HpCDF	90	92	78-138	4	25				
OCDF	119	90	63-170	10	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11215001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6354170	90	75	76	88	77	72
6354171	79	67	70	80	72	68
6354172	80	75	80	86	80	77
6354173	80	76	84	86	88	97
6354174	72	61	64	76	68	61
6354175	79	68	71	83	73	69
Blank	83	73	77	88	79	73
MS	78	69	74	77	73	81
MSD	79	68	69	76	70	78
OPR	79	72	74	81	76	74
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6354170	107	64	62	81	90	94
6354171	96	51	52	72	81	85
6354172	94	68	68	73	81	82
6354173	104	93	89	74	87	89
6354174	93	54	51	67	78	78
6354175	97	60	57	71	80	82
Blank	102	66	61	82	92	95
MS	83	68	71	72	81	83

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258015
Reported: 08/14/11 at 02:35 PM

Surrogate Quality Control

MSD	87	64	65	74	80	81
OPR	94	67	60	77	85	90
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6354170	92	89	90	82	87
6354171	86	63	74	74	77
6354172	82	79	81	81	82
6354173	89	99	96	82	79
6354174	77	78	76	69	73
6354175	80	79	79	75	78
Blank	94	92	84	76	84
MS	82	83	88	75	74
MSD	80	81	85	74	77
OPR	87	86	79	76	79
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap#1253015 Sample#6354170-75

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-233-SA6-SS-0.0-0.5	7/22/11	0809	SOIL	NONE	1-SS Sleeve			X	X																	
SL-233-SA6-SS-0.0-0.5	7/22/11	0809	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-238-SA6-SS-0.0-0.5	7/22/11	0856	SOIL	NONE	1-SS Sleeve			X	X																	
SL-238-SA6-SS-0.0-0.5	7/22/11	0856	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	X										
SL-241-SA6-SS-0.0-0.5	7/22/11	1125	SOIL	NONE	1-SS Sleeve			X	X																	
SL-241-SA6-SS-0.0-0.5	7/22/11	1125	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-242-SA6-SS-0.0-0.5	7/22/11	1527	SOIL	NONE	1-SS Sleeve			X	X																	
SL-242-SA6-SS-0.0-0.5	7/22/11	1527	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-243-SA6-SS-0.0-0.5	7/22/11	1452	SOIL	NONE	1-SS Sleeve			X	X																	
SL-243-SA6-SS-0.0-0.5	7/22/11	1452	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	X										
SL-244-SA6-SS-0.0-0.5	7/22/11	1508	SOIL	NONE	1-SS Sleeve			X	X																	
SL-244-SA6-SS-0.0-0.5	7/22/11	1508	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-307-SA6-SS-0.0-0.5	7/22/11	1412	SOIL	NONE	1-SS Sleeve			X	X																	
SL-307-SA6-SS-0.0-0.5	7/22/11	1412	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-308-SA6-SS-0.0-0.5	7/22/11	1354	SOIL	NONE	1-SS Sleeve			X	X																	
SL-308-SA6-SS-0.0-0.5	7/22/11	1354	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-309-SA6-SS-0.0-0.5	7/22/11	1435	SOIL	NONE	1-SS Sleeve			X	X																	
SL-309-SA6-SS-0.0-0.5	7/22/11	1435	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										

Received by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	07/22/2011 / 1600	7/23/11 0915	Lancaster Laboratories, Inc.
		Airbill No.(s) 8754 3341 0715,0704	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 16, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/23/2011
Group Number: 1258016
SDG: DX118
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-307-SA6-SS-0.0-0.5 Soil	6354176
SL-308-SA6-SS-0.0-0.5 Soil	6354177
SL-309-SA6-SS-0.0-0.5 Soil	6354178
SL-082-SA6-SB-4.0-5.0 Soil	6354179
SL-082-SA6-SB-9.0-10.0 Soil	6354180
SL-103-SA6-SB-4.0-5.0 Soil	6354181
SL-103-SA6-SB-9.0-10.0 Soil	6354182
SL-124-SA6-SB-4.0-5.0 Soil	6354183
SL-124-SA6-SB-12.5-13.5 Soil	6354184
SL-075-SA6-SB-4.0-5.0 Soil	6354185
SL-075-SA6-SB-9.0-10.0 Soil	6354186

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

ELECTRONIC COPY TO Data Package Group

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-307-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA6-SS-0.0-0.5

LLI Sample # SW 6354176
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:12

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1801 SDG#: DX118-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-307-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA6-SS-0.0-0.5

LLI Sample # SW 6354176
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:12

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1801 SDG#: DX118-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0374	JB	0.0183	1.00	1
11031	12378-PeCDD	40321-76-4	0.462	JB	0.0559	5.02	1
11031	123478-HxCDD	39227-28-6	0.718	JB	0.0368	5.02	1
11031	123678-HxCDD	57653-85-7	2.43	JB	0.0389	5.02	1
11031	123789-HxCDD	19408-74-3	1.58	JB	0.0379	5.02	1
11031	1234678-HpCDD	35822-46-9	77.4	B	0.0718	5.02	1
11031	OCDD	3268-87-9	1,080	B	0.0433	10.0	1
11650	2378-TCDF-Conf	51207-31-9	3.06	C	0.0793	1.00	1
11031	12378-PeCDF	57117-41-6	6.82	B	0.0761	5.02	1
11031	23478-PeCDF	57117-31-4	3.41	JB	0.0810	5.02	1
11031	123478-HxCDF	70648-26-9	3.78	JB	0.0612	5.02	1
11031	123678-HxCDF	57117-44-9	1.37	JB	0.0539	5.02	1
11031	123789-HxCDF	72918-21-9	0.647	JB	0.0601	5.02	1
11031	234678-HxCDF	60851-34-5	1.39	JB	0.0550	5.02	1
11031	1234678-HpCDF	67562-39-4	12.3	B	0.0251	5.02	1
11031	1234789-HpCDF	55673-89-7	1.14	JB	0.0390	5.02	1
11031	OCDF	39001-02-0	41.7	B	0.0267	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-2378-TCDF-Conf	71	24 - 169
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	87	17 - 157
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	71	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-307-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA6-SS-0.0-0.5

LLI Sample # SW 6354176
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:12

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1801 SDG#: DX118-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-307-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA6-SS-0.0-0.5

LLI Sample # SW 6354176
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:12

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1801 SDG#: DX118-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11216001	08/07/2011 01:13	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11216001	08/09/2011 16:05	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11216001	08/04/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401A	07/29/2011 21:23	Scott W Freisher	1

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Analysis Report

Sample Description: SL-308-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA6-SS-0.0-0.5

LLI Sample # SW 6354177
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 13:54

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1802 SDG#: DX118-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-308-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA6-SS-0.0-0.5

LLI Sample # SW 6354177
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 13:54

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1802 SDG#: DX118-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0575	JB	0.0168	1.02	1
11031	12378-PeCDD	40321-76-4	0.244	JB	0.0287	5.08	1
11031	123478-HxCDD	39227-28-6	0.251	JB	0.0287	5.08	1
11031	123678-HxCDD	57653-85-7	0.814	JB	0.0293	5.08	1
11031	123789-HxCDD	19408-74-3	0.881	JB	0.0266	5.08	1
11031	1234678-HpCDD	35822-46-9	13.5	B	0.0388	5.08	1
11031	OCDD	3268-87-9	165	B	0.0173	10.2	1
11031	2378-TCDF	51207-31-9	0.108	J	0.0257	1.02	1
11031	12378-PeCDF	57117-41-6	0.133	JB	0.0149	5.08	1
11031	23478-PeCDF	57117-31-4	0.218	JB	0.0158	5.08	1
11031	123478-HxCDF	70648-26-9	0.284	JB	0.0236	5.08	1
11031	123678-HxCDF	57117-44-9	0.262	JB	0.0188	5.08	1
11031	123789-HxCDF	72918-21-9	0.289	JBQ	0.0235	5.08	1
11031	234678-HxCDF	60851-34-5	0.278	JB	0.0212	5.08	1
11031	1234678-HpCDF	67562-39-4	4.96	JB	0.0135	5.08	1
11031	1234789-HpCDF	55673-89-7	0.360	JB	0.0259	5.08	1
11031	OCDF	39001-02-0	13.7	B	0.0183	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	100	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	77	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-308-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA6-SS-0.0-0.5

LLI Sample # SW 6354177
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 13:54

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1802 SDG#: DX118-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-308-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA6-SS-0.0-0.5

LLI Sample # SW 6354177
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 13:54

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1802 SDG#: DX118-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11216001	08/09/2011 17:15	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11216001	08/04/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401A	07/29/2011 21:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-309-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-309-SA6-SS-0.0-0.5

LLI Sample # SW 6354178
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:35

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1803 SDG#: DX118-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.91	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-309-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-309-SA6-SS-0.0-0.5

LLI Sample # SW 6354178
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:35

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1803 SDG#: DX118-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0656	JB	0.0164	1.01	1
11031	12378-PeCDD	40321-76-4	0.405	JB	0.0345	5.04	1
11031	123478-HxCDD	39227-28-6	0.568	JB	0.0372	5.04	1
11031	123678-HxCDD	57653-85-7	1.65	JB	0.0381	5.04	1
11031	123789-HxCDD	19408-74-3	1.33	JB	0.0389	5.04	1
11031	1234678-HpCDD	35822-46-9	40.4	B	0.0531	5.04	1
11031	OCDD	3268-87-9	480	B	0.0308	10.1	1
11031	2378-TCDF	51207-31-9	0.695	J	0.0974	1.01	1
11031	12378-PeCDF	57117-41-6	2.06	JB	0.0466	5.04	1
11031	23478-PeCDF	57117-31-4	1.59	JB	0.0491	5.04	1
11031	123478-HxCDF	70648-26-9	1.13	JB	0.0492	5.04	1
11031	123678-HxCDF	57117-44-9	0.597	JB	0.0400	5.04	1
11031	123789-HxCDF	72918-21-9	0.363	JBQ	0.0514	5.04	1
11031	234678-HxCDF	60851-34-5	0.668	JB	0.0427	5.04	1
11031	1234678-HpCDF	67562-39-4	7.07	B	0.0243	5.04	1
11031	1234789-HpCDF	55673-89-7	0.569	JB	0.0427	5.04	1
11031	OCDF	39001-02-0	18.7	B	0.0316	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	65	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-309-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-309-SA6-SS-0.0-0.5

LLI Sample # SW 6354178
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:35

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1803 SDG#: DX118-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-309-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-309-SA6-SS-0.0-0.5

LLI Sample # SW 6354178
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 14:35

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1803 SDG#: DX118-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11216001	08/07/2011 03:06	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11216001	08/04/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401A	07/29/2011 21:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-082-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA6-SB-4.0-5.0

LLI Sample # SW 6354179
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 10:00

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1804 SDG#: DX118-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-082-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA6-SB-4.0-5.0

LLI Sample # SW 6354179
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 10:00

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1804 SDG#: DX118-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0119	U	0.0119	1.02	1
11031	12378-PeCDD	40321-76-4	0.0451	JB	0.0229	5.12	1
11031	123478-HxCDD	39227-28-6	0.0806	JB	0.0330	5.12	1
11031	123678-HxCDD	57653-85-7	0.283	JBQ	0.0337	5.12	1
11031	123789-HxCDD	19408-74-3	0.132	JB	0.0337	5.12	1
11031	1234678-HpCDD	35822-46-9	8.78	B	0.0527	5.12	1
11031	OCDD	3268-87-9	97.6	B	0.0379	10.2	1
11031	2378-TCDF	51207-31-9	0.0383	U	0.0383	1.02	1
11031	12378-PeCDF	57117-41-6	1.77	JB	0.0372	5.12	1
11031	23478-PeCDF	57117-31-4	0.114	JB	0.0366	5.12	1
11031	123478-HxCDF	70648-26-9	0.523	JB	0.0423	5.12	1
11031	123678-HxCDF	57117-44-9	0.125	JB	0.0398	5.12	1
11031	123789-HxCDF	72918-21-9	0.0426	U	0.0426	5.12	1
11031	234678-HxCDF	60851-34-5	0.150	JBQ	0.0385	5.12	1
11031	1234678-HpCDF	67562-39-4	1.39	JB	0.0256	5.12	1
11031	1234789-HpCDF	55673-89-7	0.156	JB	0.0344	5.12	1
11031	OCDF	39001-02-0	3.60	JB	0.0332	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-082-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA6-SB-4.0-5.0

LLI Sample # SW 6354179
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 10:00

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1804 SDG#: DX118-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-082-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA6-SB-4.0-5.0

LLI Sample # SW 6354179
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 10:00

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1804 SDG#: DX118-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11216001	08/07/2011 04:03	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11216001	08/04/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401A	07/29/2011 21:23	Scott W Freisher	1

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Analysis Report

Sample Description: SL-082-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA6-SB-9.0-10.0

LLI Sample # SW 6354180
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 10:10

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1805 SDG#: DX118-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-082-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA6-SB-9.0-10.0

LLI Sample # SW 6354180
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 10:10

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1805 SDG#: DX118-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0147 U	0.0147	1.09	1
11031	12378-PeCDD	40321-76-4	0.0191 U	0.0191	5.43	1
11031	123478-HxCDD	39227-28-6	0.0144 U	0.0144	5.43	1
11031	123678-HxCDD	57653-85-7	0.0365 JBQ	0.0146	5.43	1
11031	123789-HxCDD	19408-74-3	0.0281 JBQ	0.0143	5.43	1
11031	1234678-HpCDD	35822-46-9	0.468 JBQ	0.0237	5.43	1
11031	OCDD	3268-87-9	1.95 JB	0.0257	10.9	1
11031	2378-TCDF	51207-31-9	0.0202 JQ	0.0148	1.09	1
11031	12378-PeCDF	57117-41-6	0.0329 JBQ	0.0128	5.43	1
11031	23478-PeCDF	57117-31-4	0.0407 JBQ	0.0135	5.43	1
11031	123478-HxCDF	70648-26-9	0.0874 JB	0.0133	5.43	1
11031	123678-HxCDF	57117-44-9	0.0276 JBQ	0.0112	5.43	1
11031	123789-HxCDF	72918-21-9	0.0402 JB	0.0161	5.43	1
11031	234678-HxCDF	60851-34-5	0.0272 JBQ	0.0122	5.43	1
11031	1234678-HpCDF	67562-39-4	0.123 JBQ	0.0178	5.43	1
11031	1234789-HpCDF	55673-89-7	0.0682 JB	0.0325	5.43	1
11031	OCDF	39001-02-0	0.204 JB	0.0292	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-082-SA6-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA6-SB-9.0-10.0

LLI Sample # SW 6354180
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 10:10

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1805 SDG#: DX118-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-082-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA6-SB-9.0-10.0

LLI Sample # SW 6354180
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 10:10

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1805 SDG#: DX118-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11216001	08/07/2011 04:59	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11216001	08/04/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401B	07/29/2011 21:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-103-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA6-SB-4.0-5.0

LLI Sample # SW 6354181
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:35

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1806 SDG#: DX118-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-103-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA6-SB-4.0-5.0

LLI Sample # SW 6354181
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:35

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1806 SDG#: DX118-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0119 U	0.0119	1.07	1
11031	12378-PeCDD	40321-76-4	0.0797 JBQ	0.0157	5.34	1
11031	123478-HxCDD	39227-28-6	0.0370 JB	0.0135	5.34	1
11031	123678-HxCDD	57653-85-7	0.0603 JB	0.0138	5.34	1
11031	123789-HxCDD	19408-74-3	0.0505 JB	0.0129	5.34	1
11031	1234678-HpCDD	35822-46-9	0.456 JB	0.0237	5.34	1
11031	OCDD	3268-87-9	1.56 JB	0.0214	10.7	1
11031	2378-TCDF	51207-31-9	0.0132 U	0.0132	1.07	1
11031	12378-PeCDF	57117-41-6	0.102 JBQ	0.0104	5.34	1
11031	23478-PeCDF	57117-31-4	0.106 JB	0.0113	5.34	1
11031	123478-HxCDF	70648-26-9	0.0501 JB	0.0108	5.34	1
11031	123678-HxCDF	57117-44-9	0.0445 JBQ	0.00888	5.34	1
11031	123789-HxCDF	72918-21-9	0.0412 JB	0.0123	5.34	1
11031	234678-HxCDF	60851-34-5	0.0316 JBQ	0.00984	5.34	1
11031	1234678-HpCDF	67562-39-4	0.0712 JB	0.0124	5.34	1
11031	1234789-HpCDF	55673-89-7	0.0423 JBQ	0.0222	5.34	1
11031	OCDF	39001-02-0	0.141 JB	0.0241	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	57	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-103-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA6-SB-4.0-5.0

LLI Sample # SW 6354181
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:35

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1806 SDG#: DX118-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-103-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA6-SB-4.0-5.0

LLI Sample # SW 6354181
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:35

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1806 SDG#: DX118-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11216001	08/07/2011 05:56	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11216001	08/04/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401B	07/29/2011 21:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-103-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA6-SB-9.0-10.0

LLI Sample # SW 6354182
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:45

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1807 SDG#: DX118-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-103-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA6-SB-9.0-10.0

LLI Sample # SW 6354182
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:45

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1807 SDG#: DX118-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.115 JB	0.0152	1.09	1
11031	12378-PeCDD	40321-76-4	0.178 JBQ	0.0186	5.44	1
11031	123478-HxCDD	39227-28-6	0.0660 JBQ	0.0173	5.44	1
11031	123678-HxCDD	57653-85-7	0.0762 JBQ	0.0179	5.44	1
11031	123789-HxCDD	19408-74-3	0.0825 JBQ	0.0167	5.44	1
11031	1234678-HpCDD	35822-46-9	0.573 JB	0.0212	5.44	1
11031	OCDD	3268-87-9	2.29 JB	0.0193	10.9	1
11031	2378-TCDF	51207-31-9	0.119 JQ	0.0147	1.09	1
11031	12378-PeCDF	57117-41-6	0.239 JB	0.0125	5.44	1
11031	23478-PeCDF	57117-31-4	0.233 JB	0.0129	5.44	1
11031	123478-HxCDF	70648-26-9	0.122 JB	0.0143	5.44	1
11031	123678-HxCDF	57117-44-9	0.103 JB	0.0120	5.44	1
11031	123789-HxCDF	72918-21-9	0.0983 JB	0.0148	5.44	1
11031	234678-HxCDF	60851-34-5	0.0872 JB	0.0136	5.44	1
11031	1234678-HpCDF	67562-39-4	0.113 JBQ	0.00735	5.44	1
11031	1234789-HpCDF	55673-89-7	0.0460 JBQ	0.0122	5.44	1
11031	OCDF	39001-02-0	0.202 JB	0.0221	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	63	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-103-SA6-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA6-SB-9.0-10.0

LLI Sample # SW 6354182
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:45

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1807 SDG#: DX118-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-103-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA6-SB-9.0-10.0

LLI Sample # SW 6354182
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 08:45

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1807 SDG#: DX118-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11216001	08/07/2011 09:56	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11216001	08/04/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401B	07/29/2011 21:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-124-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA6-SB-4.0-5.0

LLI Sample # SW 6354183
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:45

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1808 SDG#: DX118-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-124-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA6-SB-4.0-5.0

LLI Sample # SW 6354183
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:45

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1808 SDG#: DX118-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.228	JB	0.0156	1.06	1
11031	12378-PeCDD	40321-76-4	0.549	JB	0.0520	5.28	1
11031	123478-HxCDD	39227-28-6	1.67	JB	0.0637	5.28	1
11031	123678-HxCDD	57653-85-7	6.08	B	0.0644	5.28	1
11031	123789-HxCDD	19408-74-3	1.98	JB	0.0645	5.28	1
11031	1234678-HpCDD	35822-46-9	284	B	0.131	5.28	1
11031	OCDD	3268-87-9	4,250	EB	0.0565	10.6	1
11650	2378-TCDF-Conf	51207-31-9	1.14	C	0.0478	1.06	1
11031	12378-PeCDF	57117-41-6	2.15	JB	0.0426	5.28	1
11031	23478-PeCDF	57117-31-4	0.866	JB	0.0449	5.28	1
11031	123478-HxCDF	70648-26-9	1.98	JB	0.0551	5.28	1
11031	123678-HxCDF	57117-44-9	1.11	JB	0.0517	5.28	1
11031	123789-HxCDF	72918-21-9	0.484	JB	0.0514	5.28	1
11031	234678-HxCDF	60851-34-5	1.86	JB	0.0517	5.28	1
11031	1234678-HpCDF	67562-39-4	25.6	B	0.0415	5.28	1
11031	1234789-HpCDF	55673-89-7	3.05	JB	0.0534	5.28	1
11031	OCDF	39001-02-0	67.7	B	0.0277	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	94	25 - 164
13C12-2378-TCDF-Conf	86	24 - 169
13C12-12378-PeCDD	95	25 - 181
13C12-123478-HxCDD	93	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	95	23 - 140
13C12-OCDD	101	17 - 157
13C12-12378-PeCDF	103	24 - 185
13C12-23478-PeCDF	94	21 - 178
13C12-123478-HxCDF	92	26 - 152
13C12-123678-HxCDF	96	26 - 123
13C12-234678-HxCDF	95	28 - 136
13C12-123789-HxCDF	99	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	88	26 - 138
13C12-OCDF	89	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-124-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA6-SB-4.0-5.0

LLI Sample # SW 6354183
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:45

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1808 SDG#: DX118-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-124-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA6-SB-4.0-5.0

LLI Sample # SW 6354183
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:45

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1808 SDG#: DX118-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11216001	08/07/2011 10:52	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11216001	08/09/2011 17:11	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11216001	08/04/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401B	07/29/2011 21:23	Scott W Freisher	1

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Analysis Report

Sample Description: SL-124-SA6-SB-12.5-13.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA6-SB-12.5-13.5

LLI Sample # SW 6354184
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:55

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1809 SDG#: DX118-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-124-SA6-SB-12.5-13.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA6-SB-12.5-13.5

LLI Sample # SW 6354184
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:55

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1809 SDG#: DX118-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.107	JBQ	0.0133	1.09	1
11031	12378-PeCDD	40321-76-4	0.215	JB	0.0377	5.45	1
11031	123478-HxCDD	39227-28-6	0.487	JB	0.0415	5.45	1
11031	123678-HxCDD	57653-85-7	2.75	JB	0.0433	5.45	1
11031	123789-HxCDD	19408-74-3	1.10	JB	0.0407	5.45	1
11031	1234678-HpCDD	35822-46-9	106	B	0.0718	5.45	1
11031	OCDD	3268-87-9	1,080	B	0.0501	10.9	1
11031	2378-TCDF	51207-31-9	0.730	J	0.0647	1.09	1
11031	12378-PeCDF	57117-41-6	1.16	JB	0.0348	5.45	1
11031	23478-PeCDF	57117-31-4	1.05	JB	0.0346	5.45	1
11031	123478-HxCDF	70648-26-9	1.46	JB	0.0386	5.45	1
11031	123678-HxCDF	57117-44-9	0.774	JB	0.0366	5.45	1
11031	123789-HxCDF	72918-21-9	0.392	JB	0.0396	5.45	1
11031	234678-HxCDF	60851-34-5	1.20	JB	0.0370	5.45	1
11031	1234678-HpCDF	67562-39-4	9.99	B	0.0289	5.45	1
11031	1234789-HpCDF	55673-89-7	1.42	JB	0.0351	5.45	1
11031	OCDF	39001-02-0	20.7	B	0.0229	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	74	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-124-SA6-SB-12.5-13.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-124-SA6-SB-12.5-13.5

LLI Sample # SW 6354184
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:55

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1809 SDG#: DX118-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-124-SA6-SB-12.5-13.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA6-SB-12.5-13.5

LLI Sample # SW 6354184
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 11:55

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1809 SDG#: DX118-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11216001	08/07/2011 11:49	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11216001	08/04/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401B	07/29/2011 21:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-075-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA6-SB-4.0-5.0

LLI Sample # SW 6354185
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:05

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1810 SDG#: DX118-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-075-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA6-SB-4.0-5.0

LLI Sample # SW 6354185
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:05

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1810 SDG#: DX118-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0116	U	0.0116	1.11	1
11031	12378-PeCDD	40321-76-4	0.0399	JB	0.0179	5.56	1
11031	123478-HxCDD	39227-28-6	0.0625	JB	0.0272	5.56	1
11031	123678-HxCDD	57653-85-7	0.304	JB	0.0268	5.56	1
11031	123789-HxCDD	19408-74-3	0.156	JB	0.0263	5.56	1
11031	1234678-HpCDD	35822-46-9	22.3	B	0.0466	5.56	1
11031	OCDD	3268-87-9	260	B	0.0315	11.1	1
11031	2378-TCDF	51207-31-9	0.0241	U	0.0241	1.11	1
11031	12378-PeCDF	57117-41-6	0.280	JB	0.0140	5.56	1
11031	23478-PeCDF	57117-31-4	0.112	JB	0.0151	5.56	1
11031	123478-HxCDF	70648-26-9	0.0986	JB	0.0222	5.56	1
11031	123678-HxCDF	57117-44-9	0.0854	JB	0.0186	5.56	1
11031	123789-HxCDF	72918-21-9	0.0677	JBQ	0.0237	5.56	1
11031	234678-HxCDF	60851-34-5	0.109	JBQ	0.0204	5.56	1
11031	1234678-HpCDF	67562-39-4	0.979	JB	0.0129	5.56	1
11031	1234789-HpCDF	55673-89-7	0.159	JBQ	0.0226	5.56	1
11031	OCDF	39001-02-0	2.20	JB	0.0235	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	104	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-075-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA6-SB-4.0-5.0

LLI Sample # SW 6354185
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:05

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1810 SDG#: DX118-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-075-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA6-SB-4.0-5.0

LLI Sample # SW 6354185
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:05

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1810 SDG#: DX118-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11216001	08/07/2011 12:46	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11216001	08/04/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401B	07/29/2011 21:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-075-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA6-SB-9.0-10.0

LLI Sample # SW 6354186
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:15

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1811 SDG#: DX118-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-075-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA6-SB-9.0-10.0

LLI Sample # SW 6354186
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:15

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1811 SDG#: DX118-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.130	JB	0.0172	1.04	1
11031	12378-PeCDD	40321-76-4	0.273	JB	0.0460	5.20	1
11031	123478-HxCDD	39227-28-6	0.789	JB	0.0528	5.20	1
11031	123678-HxCDD	57653-85-7	3.46	JB	0.0543	5.20	1
11031	123789-HxCDD	19408-74-3	1.15	JB	0.0518	5.20	1
11031	1234678-HpCDD	35822-46-9	153	B	0.0893	5.20	1
11031	OCDD	3268-87-9	2,080	B	0.0379	10.4	1
11031	2378-TCDF	51207-31-9	0.494	J	0.0613	1.04	1
11031	12378-PeCDF	57117-41-6	1.47	JB	0.0316	5.20	1
11031	23478-PeCDF	57117-31-4	1.12	JB	0.0335	5.20	1
11031	123478-HxCDF	70648-26-9	1.96	JB	0.0419	5.20	1
11031	123678-HxCDF	57117-44-9	0.977	JB	0.0391	5.20	1
11031	123789-HxCDF	72918-21-9	0.507	JB	0.0439	5.20	1
11031	234678-HxCDF	60851-34-5	2.05	JB	0.0387	5.20	1
11031	1234678-HpCDF	67562-39-4	18.6	B	0.0274	5.20	1
11031	1234789-HpCDF	55673-89-7	2.61	JB	0.0391	5.20	1
11031	OCDF	39001-02-0	41.3	B	0.0195	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	97	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	86	26 - 152
13C12-123678-HxCDF	91	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	87	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-075-SA6-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA6-SB-9.0-10.0

LLI Sample # SW 6354186
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:15

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1811 SDG#: DX118-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-075-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA6-SB-9.0-10.0

LLI Sample # SW 6354186
LLI Group # 1258016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/22/2011 15:15

Submitted: 07/23/2011 09:15
Reported: 08/16/2011 13:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1811 SDG#: DX118-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11216001	08/09/2011 18:11	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11216001	08/04/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11210162401B	07/29/2011 21:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258016
Reported: 08/16/11 at 01:37 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11210162401A	Sample number(s): 6354176-6354179								
Moisture Content by 160.3					100		80-120		
Batch number: 11210162401B	Sample number(s): 6354180-6354186								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11216001	Sample number(s): 6354176-6354186								
2378-TCDD	0.0166 J	0.0143	1.00	ng/kg	93		67-158		
12378-PeCDD	0.0613 J	0.0168	5.00	ng/kg	98		70-142		
123478-HxCDD	0.0588 J	0.0205	5.00	ng/kg	97		70-164		
123678-HxCDD	0.0713 J	0.0210	5.00	ng/kg	98		76-134		
123789-HxCDD	0.0628 J	0.0192	5.00	ng/kg	96		64-162		
1234678-HpCDD	1.38 J	0.0210	5.00	ng/kg	95		70-140		
OCDD	8.21 J	0.0220	10.0	ng/kg	100		78-144		
2378-TCDF	0.0158 U	0.0158	1.00	ng/kg	103		75-158		
2378-TCDF-Conf	0.0309 U	0.0309	1.00	ng/kg	103		75-158		
12378-PeCDF	0.0293 J	0.0104	5.00	ng/kg	96		80-134		
23478-PeCDF	0.0509 J	0.0109	5.00	ng/kg	97		68-160		
123478-HxCDF	0.0339 J	0.0108	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0222 J	0.00910	5.00	ng/kg	96		84-130		
123789-HxCDF	0.0278 J	0.0123	5.00	ng/kg	99		78-130		
234678-HxCDF	0.0248 J	0.00980	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.0477 J	0.0103	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0394 J	0.0170	5.00	ng/kg	97		78-138		
OCDF	0.131 J	0.0271	10.0	ng/kg	97		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11210162401A	Sample number(s): 6354176-6354179					BKG: P354159			
Moisture Content by 160.3						5.7	5.7	1	20
Batch number: 11210162401B	Sample number(s): 6354180-6354186					BKG: P354162			
Moisture Content by 160.3						8.8	8.1	8	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258016
Reported: 08/16/11 at 01:37 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11216001	Sample number(s): 6354176-6354186 UNSPK: P355065								
2378-TCDD	93	93	67-158	2	25				
12378-PeCDD	96	97	70-142	1	25				
123478-HxCDD	96	98	70-164	0	25				
123678-HxCDD	96	96	76-134	1	25				
123789-HxCDD	96	94	64-162	4	25				
1234678-HpCDD	86	89	70-140	1	25				
OCDD	52*	51*	78-144	2	25				
2378-TCDF	98	100	75-158	0	25				
2378-TCDF-Conf	98	100	75-158	0	25				
12378-PeCDF	95	94	80-134	3	25				
23478-PeCDF	96	96	68-160	1	25				
123478-HxCDF	97	97	72-134	2	25				
123678-HxCDF	96	95	84-130	3	25				
123789-HxCDF	94	97	78-130	1	25				
234678-HxCDF	98	97	70-156	3	25				
1234678-HpCDF	96	96	82-122	2	25				
1234789-HpCDF	96	98	78-138	0	25				
OCDF	94	95	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11216001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6354176	79	82	75	84	80	80
6354177	71	74	71	84	75	76
6354178	73	75	68	82	74	65
6354179	81	78	77	82	79	78
6354180	73	77	71	82	75	64
6354181	72	72	70	84	75	63
6354182	66	71	70	79	72	68
6354183	94	94	92	96	95	99
6354184	83	82	81	84	82	86
6354185	79	78	76	86	80	72
6354186	84	86	86	91	87	87
Blank	76	85	80	92	85	76
MS	71	72	71	81	73	69
MSD	70	68	68	82	78	62
OPR	65	67	62	71	61	53
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6354176	95	72	71	83	84	82

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258016
Reported: 08/16/11 at 01:37 PM

Surrogate Quality Control

6354177	99	58	77	76	78	76
6354178	98	63	65	82	78	80
6354179	86	74	73	78	80	81
6354180	97	61	59	83	78	78
6354181	98	60	57	80	84	82
6354182	95	64	63	76	81	79
6354183	101	88	89	95	93	94
6354184	87	77	74	82	84	82
6354185	104	67	61	82	84	84
6354186	101	76	87	80	82	83
Blank	113	75	75	92	92	90
MS	91	61	57	75	81	77
MSD	94	58	55	76	84	82
OPR	82	52	51	74	69	67
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6354176	83	83	87		91	71
6354177	78	74	100	68	84	
6354178	78	82	86	67	86	
6354179	81	76	78	79	80	
6354180	80	79	79	72	87	
6354181	82	79	78	68	84	
6354182	81	79	81	64	78	
6354183	93	95	101		103	86
6354184	82	82	80	82	84	
6354185	83	82	79	76	89	
6354186	82	79	97	82	94	
Blank	92	96	101	72	94	65
MS	78	76	72	68	82	68
MSD	82	76	76	66	79	66
OPR	68	68	68	61	76	61
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap# 1253016 Sample# 6354176-86

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 15 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-233-SA6-SS-0.0-0.5	7/22/11	0809	SOIL	NONE	1-SS Sleeve			X	X																	
SL-233-SA6-SS-0.0-0.5	7/22/11	0809	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-238-SA6-SS-0.0-0.5	7/22/11	0856	SOIL	NONE	1-SS Sleeve			X	X																	
SL-238-SA6-SS-0.0-0.5	7/22/11	0856	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	X										
SL-241-SA6-SS-0.0-0.5	7/22/11	1125	SOIL	NONE	1-SS Sleeve			X	X																	
SL-241-SA6-SS-0.0-0.5	7/22/11	1125	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-242-SA6-SS-0.0-0.5	7/22/11	1527	SOIL	NONE	1-SS Sleeve			X	X																	
SL-242-SA6-SS-0.0-0.5	7/22/11	1527	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-243-SA6-SS-0.0-0.5	7/22/11	1452	SOIL	NONE	1-SS Sleeve			X	X																	
SL-243-SA6-SS-0.0-0.5	7/22/11	1452	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	X										
SL-244-SA6-SS-0.0-0.5	7/22/11	1508	SOIL	NONE	1-SS Sleeve			X	X																	
SL-244-SA6-SS-0.0-0.5	7/22/11	1508	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-307-SA6-SS-0.0-0.5	7/22/11	1412	SOIL	NONE	1-SS Sleeve			X	X																	
SL-307-SA6-SS-0.0-0.5	7/22/11	1412	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-308-SA6-SS-0.0-0.5	7/22/11	1354	SOIL	NONE	1-SS Sleeve			X	X																	
SL-308-SA6-SS-0.0-0.5	7/22/11	1354	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-309-SA6-SS-0.0-0.5	7/22/11	1435	SOIL	NONE	1-SS Sleeve			X	X																	
SL-309-SA6-SS-0.0-0.5	7/22/11	1435	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										

Received by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	07/22/2011 / 1600	7/23/11 0915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3341 0715,0704	

acct# 13013 Gp# 1253016 Sample# 6354176-36

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015D Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-082-SA6-SB-4.5	7/22/11	0955	SOIL	NONE	5-Encores										X	X	X										
SL-082-SA6-SB-4.0-5.0	7/22/11	1000	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-082-SA6-SB-9.5	7/22/11	1005	SOIL	NONE	1-Encore												X										
SL-082-SA6-SB-9.0-10.0	7/22/11	1010	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-103-SA6-SB-4.5	7/22/11	0830	SOIL	NONE	5-Encores												X										
SL-103-SA6-SB-4.0-5.0	7/22/11	0835	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-103-SA6-SB-9.5	7/22/11	0840	SOIL	NONE	1-Encore										X	X	X										
SL-103-SA6-SB-9.0-10.0	7/22/11	0845	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-124-SA6-SB-4.5	7/22/11	1140	SOIL	NONE	5-Encores										X	X	X										
SL-124-SA6-SB-4.0-5.0	7/22/11	1145	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-124-SA6-SB-13.0	7/22/11	1150	SOIL	NONE	1-Encore												X										
SL-124-SA6-SB-12.5-13.5	7/22/11	1155	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-075-SA6-SB-4.5	7/22/11	1500	SOIL	NONE	1-Encores												X										per new protocol, only TPH
SL-075-SA6-SB-4.0-5.0	7/22/11	1505	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
SL-075-SA6-SB-9.5	7/22/11	1510	SOIL	NONE	1-Encore												X										
SL-075-SA6-SB-9.0-10.0	7/22/11	1515	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
TB-072211	7/22/11	0800	SOIL	NONE	4-40mL Vials										X	X	X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	
	~~07/22/2011~~ / 1600		7/23/11 0915
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3341 0715,0704	

Laboratory:
Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

September 06, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/26/2011
Group Number: 1258174
SDG: DE208
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-190-SA6-SS-0.0-0.5 Soil	6355047
SL-192-SA6-SS-0.0-0.5 Soil	6355048
SL-193-SA6-SS-0.0-0.5 Soil	6355049
SL-235-SA6-SS-0.0-0.5 Soil	6355050
SL-236-SA6-SS-0.0-0.5 Soil	6355051
SL-245-SA6-SS-0.0-0.5 Soil	6355052
SL-253-SA6-SS-0.0-0.5 Soil	6355053
SL-254-SA6-SS-0.0-0.5 Soil	6355054
SL-255-SA6-SS-0.0-0.5 Soil	6355055
SL-256-SA6-SS-0.0-0.5 Soil	6355056
SL-268-SA6-SS-0.0-0.5 Soil	6355057
SL-098-SA6-SB-2.0-3.0 Soil	6355058
SL-098-SA6-SB-2.0-3.0MS Soil	6355059
SL-098-SA6-SB-2.0-3.0MSD Soil	6355060
SL-098-SA6-SB-2.0-3.0DUP Soil	6355061
SL-289-SA6-SB-3.5-4.5 Soil	6355062
DUP07-SA6-QC-072511 Soil	6355063
TB-072511 Water	6355064

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

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Analysis Report

COPY TO
1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-190-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-SA6-SS-0.0-0.5

LLI Sample # SW 6355047
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 15:51

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL190 SDG#: DE208-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	16.6	U	16.6	33.3		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-190-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-SA6-SS-0.0-0.5

LLI Sample # SW 6355047
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 15:51

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL190 SDG#: DE208-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.70	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.8		0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.9		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	5.3		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	2.3		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.3	J	6.1	18		1
10138	Chrysene	218-01-9	7.8		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	17	J	6.1	18		1
10138	Fluoranthene	206-44-0	5.4		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.91	J	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	1.6	J	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	1.8		0.68	1.7		1
10138	Naphthalene	91-20-3	4.5		0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	13	J	6.1	18		1
10138	Phenanthrene	85-01-8	4.0		0.68	1.7		1
10138	Pyrene	129-00-0	4.8		0.68	1.7		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	57	U	57	110	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-190-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-SA6-SS-0.0-0.5

LLI Sample # SW 6355047
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 15:51

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL190 SDG#: DE208-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	38	U	38	110	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	77	U	77	230	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	77	U	77	230	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	38	U	38	110	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	38	U	38	110	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	38	U	38	110	10000000	1
10132	HMX	2691-41-0	96	U	96	290	10000000	1
10132	Nitrobenzene	98-95-3	38	U	38	110	10000000	1
10132	Nitroglycerin	55-63-0	770	U	770	2,300	10000000	1
10132	2-Nitrotoluene	88-72-2	77	U	77	110	10000000	1
10132	3-Nitrotoluene	99-08-1	96	U	96	110	10000000	1
10132	4-Nitrotoluene	99-99-0	77	U	77	110	10000000	1
10132	PETN	78-11-5	770	U	770	2,300	10000000	1
10132	RDX	121-82-4	48	U	48	110	10000000	1
10132	Tetryl	479-45-8	59	U	59	110	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	38	U	38	110	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	38	U	38	110	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	2.1		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	600	U	600	1,500		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-190-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-SA6-SS-0.0-0.5

LLI Sample # SW 6355047
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 15:51

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL190 SDG#: DE208-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.091	U	0.091	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.11	J	0.034	0.17		1
01363	Chlordane	57-74-9	10		0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	2.1		0.067	0.34		1
01363	p,p-DDT	50-29-3	13		0.67	3.4		10
01363	Delta BHC	319-86-8	0.091	U	0.091	0.17		1
01363	Dieldrin	60-57-1	0.84	U	0.84	3.4		10
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	3.9	U	3.9	3.9		10
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	1.0	U	1.0	1.0		1
01363	Endrin Aldehyde	7421-93-4	1.3	U	1.3	1.3		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.81	U	0.81	0.81		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	31	U	31	31		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	10	U	10	33		10
10225	Aroclor 5442	12642-23-8	10	U	10	33		10
10225	Aroclor 5460	11126-42-4	10	U	10	33		10
10225	PCB-1016	12674-11-2	3.3	U	3.3	17		10
10225	PCB-1221	11104-28-2	3.3	U	3.3	17		10
10225	PCB-1232	11141-16-5	3.3	U	3.3	17		10
10225	PCB-1242	53469-21-9	3.3	U	3.3	17		10
10225	PCB-1248	12672-29-6	3.3	U	3.3	17		10
10225	PCB-1254	11097-69-1	130		3.3	17		10
10225	PCB-1260	11096-82-5	4.0	U	4.0	17		10
10225	PCB-1262	37324-23-5	3.3	U	3.3	17		10
10225	PCB-1268	11100-14-4	3.3	U	3.3	17		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-190-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-SA6-SS-0.0-0.5

LLI Sample # SW 6355047
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 15:51

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL190 SDG#: DE208-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	1.9		0.41	1.2		1
10199	EFH (C21-C30)	n.a.	11		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	28		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.59	J	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,600		6.02	19.9		1
07914	Boron	7440-42-8	2.85	J	0.358	4.97		1
01650	Calcium	7440-70-2	3,500		2.49	19.9		1
01654	Iron	7439-89-6	17,600		2.60	19.9		1
01656	Lithium	7439-93-2	26.2		0.62	2.0		1
01657	Magnesium	7439-95-4	3,780		0.437	9.94		1
06958	Manganese	7439-96-5	318		0.0358	0.497		1
10145	Phosphorus	7723-14-0	459		0.348	9.94		1
01662	Potassium	7440-09-7	3,600		11.2	49.7		1
01667	Sodium	7440-23-5	67.9	J	5.92	99.4		1
07968	Strontium	7440-24-6	24.3		0.0249	0.497		1
06969	Tin	7440-31-5	2.57	J	0.318	9.94		1
06970	Titanium	7440-32-6	964		0.0706	0.994		1
10146	Zirconium	7440-67-7	1.83	J	0.457	4.97		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.310		0.0751	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.24		0.0811	0.406		2
06126	Barium	7440-39-3	118		0.108	0.406		2
06127	Beryllium	7440-41-7	0.695		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.473		0.0446	0.101		2
06131	Chromium	7440-47-3	20.7		0.122	0.406		2
06132	Cobalt	7440-48-4	7.86		0.0203	0.101		2
06133	Copper	7440-50-8	13.5		0.0811	0.406		2
06135	Lead	7439-92-1	27.8		0.0103	0.203		2
06138	Molybdenum	7439-98-7	1.07		0.0507	0.101		2

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Sample Description: SL-190-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-SA6-SS-0.0-0.5

LLI Sample # SW 6355047
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 15:51

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL190 SDG#: DE208-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	15.1		0.101	0.406		2
06141	Selenium	7782-49-2	0.246	J	0.0588	0.406		2
06142	Silver	7440-22-4	1.68		0.0144	0.101		2
06145	Thallium	7440-28-0	0.352		0.0304	0.101		2
06148	Vanadium	7440-62-2	34.0		0.0223	0.101		2
06149	Zinc	7440-66-6	194		1.42	7.61		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0582	J	0.0068	0.0970		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.67		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11213SLA026	08/10/2011 23:04	Matthew S Woods	1

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Sample Description: SL-190-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-SA6-SS-0.0-0.5

LLI Sample # SW 6355047
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 15:51

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL190 SDG#: DE208-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLC026	08/15/2011 19:21	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLD026	08/10/2011 03:02	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11213SLA026	08/02/2011 08:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLD026	08/04/2011 06:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLC026	08/05/2011 06:15	Katheryne V Sponheimer	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112140015A	08/05/2011 10:15	Michele D Hamilton	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112080023A	07/30/2011 03:49	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200018A	08/09/2011 20:56	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	08/31/2011 07:59	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	08/31/2011 08:14	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112160013A	08/08/2011 15:28	Sarah M Snyder	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112150007A	08/03/2011 19:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112160013A	08/04/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200018A	08/08/2011 22:15	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112080023A	07/28/2011 12:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	112140015A	08/03/2011 00:45	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112090042A	07/30/2011 01:49	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112080004A	07/27/2011 15:23	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112160030A	08/06/2011 12:22	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112160029A	08/07/2011 06:38	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112160029A	08/05/2011 06:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112160030A	08/05/2011 06:00	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112090042A	07/29/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112080004A	07/27/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112105708004	08/03/2011 06:51	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112105708004	08/03/2011 06:51	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112105708004	08/03/2011 06:51	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112105708004	08/03/2011 06:51	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112105708004	08/03/2011 06:51	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112105708004	08/03/2011 06:51	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112105708004	08/03/2011 06:51	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112105708004	08/03/2011 06:51	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112105708004	08/03/2011 06:51	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112105708004	08/03/2011 06:51	Joanne M Gates	1

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Sample Description: SL-190-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-SA6-SS-0.0-0.5

LLI Sample # SW 6355047
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 15:51

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL190 SDG#: DE208-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112105708004	08/03/2011 06:51	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112105708004	08/03/2011 06:51	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112105708004	08/03/2011 06:51	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112105708004	08/03/2011 06:51	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112101026003A	08/02/2011 13:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112101026003A	08/02/2011 13:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112101026003D	08/02/2011 13:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112101026003A	08/02/2011 13:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112101026003A	08/02/2011 13:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112101026003A	08/02/2011 13:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112101026003A	08/02/2011 13:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112101026003A	08/02/2011 13:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112101026003A	08/02/2011 13:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112101026003C	08/02/2011 13:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112101026003A	08/02/2011 13:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112101026003B	08/02/2011 13:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112101026003A	08/02/2011 13:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112101026003A	08/02/2011 13:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112101026003A	08/02/2011 13:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112101026003A	08/02/2011 14:18	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112105711004	08/01/2011 09:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112105708004	07/31/2011 23:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112101026003	07/31/2011 23:21	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112105711004	08/01/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11215621201A	08/03/2011 20:31	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11215621201A	08/03/2011 20:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284202A	08/05/2011 08:52	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11216243202A	08/09/2011 23:10	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11217102201A	08/08/2011 08:13	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11215621201A	08/03/2011 08:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284202A	08/03/2011 17:45	Alex M Rittle	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11217102201A	08/05/2011 15:15	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039404A	08/02/2011 17:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11216243202A	08/04/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-192-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA6-SS-0.0-0.5

LLI Sample # SW 6355048
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 15:23

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL192 SDG#: DE208-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	16.7	U	16.7	33.4		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-192-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA6-SS-0.0-0.5

LLI Sample # SW 6355048
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 15:23

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL192 SDG#: DE208-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.67	U	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	0.38	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	28		6.1	18		1
10138	Fluoranthene	206-44-0	0.67	U	0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	11	J	6.1	18		1
10138	Phenanthrene	85-01-8	0.67	U	0.67	1.7		1
10138	Pyrene	129-00-0	0.67	U	0.67	1.7		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	55	U	55	110	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-192-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA6-SS-0.0-0.5

LLI Sample # SW 6355048
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 15:23

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL192 SDG#: DE208-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	37	U	37	110	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	74	U	74	220	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	74	U	74	220	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	37	U	37	110	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	37	U	37	110	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	37	U	37	110	10000000	1
10132	HMX	2691-41-0	92	U	92	280	10000000	1
10132	Nitrobenzene	98-95-3	37	U	37	110	10000000	1
10132	Nitroglycerin	55-63-0	740	U	740	2,200	10000000	1
10132	2-Nitrotoluene	88-72-2	74	U	74	110	10000000	1
10132	3-Nitrotoluene	99-08-1	92	U	92	110	10000000	1
10132	4-Nitrotoluene	99-99-0	74	U	74	110	10000000	1
10132	PETN	78-11-5	740	U	740	2,200	10000000	1
10132	RDX	121-82-4	46	U	46	110	10000000	1
10132	Tetryl	479-45-8	56	U	56	110	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	37	U	37	110	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	37	U	37	110	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	2.8		0.62	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	J	0.80	1.7		1
10401	MCPA	94-74-6	540	U	540	540		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1

Reporting limits were raised for MCPA due to interference from the sample matrix.

*=This limit was used in the evaluation of the final result
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Sample Description: SL-192-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA6-SS-0.0-0.5

LLI Sample # SW 6355048
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 15:23

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL192 SDG#: DE208-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	600	U	600	1,500		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.20	U	0.20	0.34		1
01363	p,p-DDT	50-29-3	0.83		0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.35	U	0.35	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.12	U	0.12	0.34		1
01363	Endrin Ketone	53494-70-5	0.55	U	0.55	0.55		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.061	U	0.061	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	27	U	27	27		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	3.0	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	2.3		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1

The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1

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Sample Description: SL-192-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA6-SS-0.0-0.5

LLI Sample # SW 6355048
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 15:23

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL192 SDG#: DE208-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.0	U	4.0	12		10
10199	EFH (C15-C20)	n.a.	4.0	U	4.0	12		10
10199	EFH (C21-C30)	n.a.	86		4.0	12		10
10199	EFH (C30 - C40)	n.a.	290		4.0	12		10
10199	EFH (C8-C11)	n.a.	4.0	U	4.0	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,400		5.94	19.6		1
07914	Boron	7440-42-8	1.81	J	0.353	4.91		1
01650	Calcium	7440-70-2	1,810		2.45	19.6		1
01654	Iron	7439-89-6	15,900		2.56	19.6		1
01656	Lithium	7439-93-2	18.3		0.61	2.0		1
01657	Magnesium	7439-95-4	3,080		0.432	9.82		1
06958	Manganese	7439-96-5	191		0.0353	0.491		1
10145	Phosphorus	7723-14-0	267		0.344	9.82		1
01662	Potassium	7440-09-7	3,010		11.1	49.1		1
01667	Sodium	7440-23-5	61.8	J	5.84	98.2		1
07968	Strontium	7440-24-6	15.2		0.0245	0.491		1
06969	Tin	7440-31-5	2.24	J	0.314	9.82		1
06970	Titanium	7440-32-6	914		0.0697	0.982		1
10146	Zirconium	7440-67-7	1.54	J	0.452	4.91		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.130	J	0.0734	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.50		0.0793	0.397		2
06126	Barium	7440-39-3	102		0.105	0.397		2
06127	Beryllium	7440-41-7	0.603		0.0159	0.0991		2

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Sample Description: SL-192-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA6-SS-0.0-0.5

LLI Sample # SW 6355048
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 15:23

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL192 SDG#: DE208-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.320		0.0436	0.0991		2
06131	Chromium	7440-47-3	14.0		0.119	0.397		2
06132	Cobalt	7440-48-4	6.33		0.0198	0.0991		2
06133	Copper	7440-50-8	7.42		0.0793	0.397		2
06135	Lead	7439-92-1	10.9		0.0101	0.198		2
06138	Molybdenum	7439-98-7	0.834		0.0496	0.0991		2
06139	Nickel	7440-02-0	9.54		0.0991	0.397		2
06141	Selenium	7782-49-2	0.256	J	0.0575	0.397		2
06142	Silver	7440-22-4	0.0478	J	0.0141	0.0991		2
06145	Thallium	7440-28-0	0.292		0.0297	0.0991		2
06148	Vanadium	7440-62-2	27.3		0.0218	0.0991		2
06149	Zinc	7440-66-6	64.1		0.555	2.97		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0193	J	0.0070	0.0990		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.79	0.99		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.79	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.18		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-192-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA6-SS-0.0-0.5

LLI Sample # SW 6355048
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 15:23

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL192 SDG#: DE208-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11213SLA026	08/10/2011 23:23	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLC026	08/16/2011 00:46	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLD026	08/10/2011 03:34	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11213SLA026	08/02/2011 08:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLD026	08/04/2011 06:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLC026	08/05/2011 06:15	Katheryne V Sponheimer	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112140015A	08/05/2011 10:57	Michele D Hamilton	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112080023A	07/30/2011 04:27	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200018A	08/09/2011 21:24	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	08/31/2011 08:29	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112160013A	08/06/2011 02:51	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112150007A	08/03/2011 19:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112160013A	08/04/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200018A	08/08/2011 22:15	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112080023A	07/28/2011 12:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	112140015A	08/03/2011 00:45	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112090042A	07/30/2011 02:03	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112080004A	07/27/2011 15:35	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112160030A	08/06/2011 19:04	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112160029A	08/07/2011 12:40	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112160029A	08/05/2011 06:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112160030A	08/05/2011 06:00	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112090042A	07/29/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112080004A	07/27/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112105708004	08/03/2011 07:03	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112105708004	08/03/2011 07:03	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112105708004	08/03/2011 07:03	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112105708004	08/03/2011 07:03	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112105708004	08/03/2011 07:03	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112105708004	08/03/2011 07:03	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112105708004	08/03/2011 07:03	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112105708004	08/03/2011 07:03	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112105708004	08/03/2011 07:03	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112105708004	08/03/2011 07:03	Joanne M Gates	1

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Sample Description: SL-192-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA6-SS-0.0-0.5

LLI Sample # SW 6355048
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 15:23

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL192 SDG#: DE208-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112105708004	08/03/2011 07:03	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112105708004	08/03/2011 07:03	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112105708004	08/03/2011 07:03	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112105708004	08/03/2011 07:03	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112101026003A	08/02/2011 13:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112101026003A	08/02/2011 13:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112101026003D	08/02/2011 13:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112101026003A	08/02/2011 13:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112101026003A	08/02/2011 13:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112101026003A	08/02/2011 13:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112101026003A	08/02/2011 13:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112101026003A	08/02/2011 13:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112101026003A	08/02/2011 13:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112101026003C	08/02/2011 13:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112101026003A	08/02/2011 13:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112101026003B	08/02/2011 13:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112101026003A	08/02/2011 13:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112101026003A	08/02/2011 13:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112101026003A	08/02/2011 13:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112101026003A	08/02/2011 13:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112105711004	08/01/2011 09:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112105708004	07/31/2011 23:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112101026003	07/31/2011 23:21	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112105711004	08/01/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11215621201A	08/03/2011 21:14	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11215621201A	08/03/2011 21:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284202A	08/05/2011 10:01	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11216243202A	08/09/2011 23:24	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11217102201A	08/08/2011 08:16	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11215621201A	08/03/2011 08:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284202A	08/03/2011 17:45	Alex M Rittle	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11217102201A	08/05/2011 15:15	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039404A	08/02/2011 17:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11216243202A	08/04/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-193-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA6-SS-0.0-0.5

LLI Sample # SW 6355049
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:56

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL193 SDG#: DE208-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	17.0	J	16.7	33.3		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 40.2 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank or the re-analysis of the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1

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Sample Description: SL-193-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA6-SS-0.0-0.5

LLI Sample # SW 6355049
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:56

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL193 SDG#: DE208-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	3.4	U	3.4	8.4		5
10138	Benzo(a)pyrene	50-32-8	3.4	U	3.4	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	3.4	U	3.4	8.4		5
10138	Benzo(g,h,i)perylene	191-24-2	3.4	U	3.4	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	3.4	U	3.4	8.4		5
10138	Chrysene	218-01-9	3.8	J	1.7	8.4		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4		5
10138	Fluoranthene	206-44-0	3.4	U	3.4	8.4		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4		5
10138	Di-n-octylphthalate	117-84-0	79	J	30	91		5
10138	Phenanthrene	85-01-8	3.4	U	3.4	8.4		5
10138	Pyrene	129-00-0	3.4	U	3.4	8.4		5

Reporting limits were raised due to interference from the sample matrix.

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and

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Sample Description: SL-193-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA6-SS-0.0-0.5

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SL193 SDG#: DE208-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	55	U	55	110	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	37	U	37	110	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	74	U	74	220	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	74	U	74	220	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	37	U	37	110	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	37	U	37	110	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	37	U	37	110	10000000	1
10132	HMX	2691-41-0	92	U	92	280	10000000	1
10132	Nitrobenzene	98-95-3	37	U	37	110	10000000	1
10132	Nitroglycerin	55-63-0	740	U	740	2,200	10000000	1
10132	2-Nitrotoluene	88-72-2	74	U	74	110	10000000	1
10132	3-Nitrotoluene	99-08-1	92	U	92	110	10000000	1
10132	4-Nitrotoluene	99-99-0	74	U	74	110	10000000	1
10132	PETN	78-11-5	740	U	740	2,200	10000000	1
10132	RDX	121-82-4	46	U	46	110	10000000	1
10132	Tetryl	479-45-8	56	U	56	110	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	37	U	37	110	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	37	U	37	110	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	2.7		0.63	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1

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SL-193-SA6-SS-0.0-0.5

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SL193 SDG#: DE208-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.11	J	0.076	0.17		1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	600	U	600	1,500		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.12	U	0.12	0.34		1
01363	p,p-DDT	50-29-3	0.30	J	0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.11	U	0.11	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	5.9		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	210	J	100	510		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-193-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA6-SS-0.0-0.5

LLI Sample # SW 6355049
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:56

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL193 SDG#: DE208-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	0.85	J	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	7.1		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	19		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,700		6.13	20.3		1
07914	Boron	7440-42-8	1.32	J	0.365	5.07		1
01650	Calcium	7440-70-2	2,700		2.53	20.3		1
01654	Iron	7439-89-6	17,800		2.64	20.3		1
01656	Lithium	7439-93-2	20.8		0.63	2.0		1
01657	Magnesium	7439-95-4	3,680		0.446	10.1		1
06958	Manganese	7439-96-5	232		0.0365	0.507		1
10145	Phosphorus	7723-14-0	269		0.355	10.1		1
01662	Potassium	7440-09-7	2,720		11.4	50.7		1
01667	Sodium	7440-23-5	68.7	J	6.03	101		1
07968	Strontium	7440-24-6	17.3		0.0253	0.507		1
06969	Tin	7440-31-5	2.24	J	0.324	10.1		1
06970	Titanium	7440-32-6	995		0.0719	1.01		1
10146	Zirconium	7440-67-7	2.39	J	0.466	5.07		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.193	J	0.0735	0.199		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.59		0.0795	0.397		2
06126	Barium	7440-39-3	122		0.105	0.397		2
06127	Beryllium	7440-41-7	0.838		0.0159	0.0993		2
06128	Cadmium	7440-43-9	0.385		0.0437	0.0993		2
06131	Chromium	7440-47-3	23.4		0.119	0.397		2
06132	Cobalt	7440-48-4	7.43		0.0199	0.0993		2
06133	Copper	7440-50-8	15.8		0.0795	0.397		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-193-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA6-SS-0.0-0.5

LLI Sample # SW 6355049
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:56

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL193 SDG#: DE208-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	11.4		0.0101	0.199		2
06138	Molybdenum	7439-98-7	0.890		0.0497	0.0993		2
06139	Nickel	7440-02-0	15.7		0.0993	0.397		2
06141	Selenium	7782-49-2	0.221	J	0.0576	0.397		2
06142	Silver	7440-22-4	0.0605	J	0.0141	0.0993		2
06145	Thallium	7440-28-0	0.400		0.0298	0.0993		2
06148	Vanadium	7440-62-2	40.6		0.0219	0.0993		2
06149	Zinc	7440-66-6	81.5		0.556	2.98		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0131	J	0.0067	0.0955		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.88	J	0.83	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.45		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-193-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA6-SS-0.0-0.5

LLI Sample # SW 6355049
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:56

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL193 SDG#: DE208-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11213SLA026	08/10/2011 23:42	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLC026	08/16/2011 10:15	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLD026	08/10/2011 04:07	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11213SLA026	08/02/2011 08:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLD026	08/04/2011 06:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLC026	08/05/2011 06:15	Katheryne V Sponheimer	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112140015A	08/05/2011 13:05	Michele D Hamilton	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112080023A	07/30/2011 04:36	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200018A	08/09/2011 21:51	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	08/31/2011 02:47	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112160013A	08/06/2011 03:10	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112150007A	08/03/2011 19:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112160013A	08/04/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200018A	08/08/2011 22:15	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112080023A	07/28/2011 12:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	112140015A	08/03/2011 00:45	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112090042A	07/30/2011 02:18	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112080004A	07/27/2011 15:48	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112160030A	08/06/2011 16:05	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112160029A	08/07/2011 08:15	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112160029A	08/05/2011 06:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112160030A	08/05/2011 06:00	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112090042A	07/29/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112080004A	07/27/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112105708004	08/03/2011 07:08	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112105708004	08/03/2011 07:08	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112105708004	08/03/2011 07:08	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112105708004	08/03/2011 07:08	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112105708004	08/03/2011 07:08	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112105708004	08/03/2011 07:08	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112105708004	08/03/2011 07:08	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112105708004	08/03/2011 07:08	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112105708004	08/03/2011 07:08	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112105708004	08/03/2011 07:08	Joanne M Gates	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-193-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA6-SS-0.0-0.5

LLI Sample # SW 6355049
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:56

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL193 SDG#: DE208-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112105708004	08/03/2011 07:08	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112105708004	08/03/2011 07:08	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112105708004	08/03/2011 07:08	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112105708004	08/03/2011 07:08	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112101026003A	08/02/2011 13:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112101026003A	08/02/2011 13:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112101026003D	08/02/2011 13:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112101026003A	08/02/2011 13:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112101026003A	08/02/2011 13:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112101026003A	08/02/2011 13:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112101026003A	08/02/2011 13:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112101026003A	08/02/2011 13:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112101026003A	08/02/2011 13:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112101026003C	08/02/2011 13:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112101026003A	08/02/2011 13:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112101026003B	08/02/2011 13:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112101026003A	08/02/2011 13:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112101026003A	08/02/2011 13:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112101026003A	08/02/2011 13:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112101026003A	08/02/2011 13:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112105711004	08/01/2011 09:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112105708004	07/31/2011 23:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112101026003	07/31/2011 23:21	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112105711004	08/01/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11215621201A	08/03/2011 21:28	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11215621201A	08/03/2011 21:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284202A	08/05/2011 10:47	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11216243202A	08/09/2011 23:39	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11217102201A	08/08/2011 08:20	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11215621201A	08/03/2011 08:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284202A	08/03/2011 17:45	Alex M Rittle	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11217102201A	08/05/2011 15:15	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039404A	08/02/2011 17:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11216243202A	08/04/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-235-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-235-SA6-SS-0.0-0.5

LLI Sample # SW 6355050
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 08:15

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL235 SDG#: DE208-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	22	J	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1

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Sample Description: SL-235-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-235-SA6-SS-0.0-0.5

LLI Sample # SW 6355050
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 08:15

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL235 SDG#: DE208-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.0	J	0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	0.85	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	0.92	J	0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7		1
10138	Pyrene	129-00-0	0.87	J	0.68	1.7		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	1.8	U	1.8	1.8		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1

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Sample Description: SL-235-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-235-SA6-SS-0.0-0.5

LLI Sample # SW 6355050
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 08:15

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL235 SDG#: DE208-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	Reporting limits were raised for 2,4-DB due to interference from the sample matrix.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.1		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.13	J	0.067	0.34		1
01363	p,p-DDT	50-29-3	0.21	J	0.067	0.34		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.081	U	0.081	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.11	U	0.11	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	2.3	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	0.82	J	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,100		5.90	19.5		1
07914	Boron	7440-42-8	1.20	J	0.351	4.88		1

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Sample Description: SL-235-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-235-SA6-SS-0.0-0.5

LLI Sample # SW 6355050
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 08:15

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL235 SDG#: DE208-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	2,620		2.44	19.5		1
01654	Iron	7439-89-6	19,400		2.55	19.5		1
01656	Lithium	7439-93-2	25.4		0.60	2.0		1
01657	Magnesium	7439-95-4	4,460		0.429	9.75		1
06958	Manganese	7439-96-5	294		0.0351	0.488		1
10145	Phosphorus	7723-14-0	480		0.341	9.75		1
01662	Potassium	7440-09-7	3,970		11.0	48.8		1
01667	Sodium	7440-23-5	72.1	J	5.80	97.5		1
07968	Strontium	7440-24-6	19.2		0.0244	0.488		1
06969	Tin	7440-31-5	2.22	J	0.312	9.75		1
06970	Titanium	7440-32-6	1,120		0.0692	0.975		1
10146	Zirconium	7440-67-7	2.03	J	0.449	4.88		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0993	J	0.0751	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.32		0.0811	0.406		2
06126	Barium	7440-39-3	112		0.108	0.406		2
06127	Beryllium	7440-41-7	0.680		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.206		0.0446	0.101		2
06131	Chromium	7440-47-3	20.9		0.122	0.406		2
06132	Cobalt	7440-48-4	6.34		0.0203	0.101		2
06133	Copper	7440-50-8	11.5		0.0811	0.406		2
06135	Lead	7439-92-1	11.8		0.0103	0.203		2
06138	Molybdenum	7439-98-7	0.545		0.0507	0.101		2
06139	Nickel	7440-02-0	15.9		0.101	0.406		2
06141	Selenium	7782-49-2	0.127	J	0.0588	0.406		2
06142	Silver	7440-22-4	0.0905	J	0.0144	0.101		2
06145	Thallium	7440-28-0	0.283		0.0304	0.101		2
06148	Vanadium	7440-62-2	34.1		0.0223	0.101		2
06149	Zinc	7440-66-6	68.9		0.568	3.04		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0085	J	0.0067	0.0950		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1		0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.20	1.0		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-235-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-235-SA6-SS-0.0-0.5

LLI Sample # SW 6355050
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 08:15

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL235 SDG#: DE208-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	6.57	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	1.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLC026	08/16/2011 10:40	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLD026	08/10/2011 04:39	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLD026	08/04/2011 06:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLC026	08/05/2011 06:15	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200018A	08/09/2011 22:19	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112200028A	08/10/2011 13:55	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	08/31/2011 03:02	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112160013A	08/06/2011 03:28	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112150007A	08/03/2011 19:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112160013A	08/04/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200018A	08/08/2011 22:15	Karen L Beyer	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112200028A	08/09/2011 09:30	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112105708004	08/03/2011 07:12	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112105708004	08/03/2011 07:12	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112105708004	08/03/2011 07:12	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112105708004	08/03/2011 07:12	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112105708004	08/03/2011 07:12	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112105708004	08/03/2011 07:12	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112105708004	08/03/2011 07:12	Joanne M Gates	1

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Sample Description: SL-235-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-235-SA6-SS-0.0-0.5

LLI Sample # SW 6355050
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 08:15

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL235 SDG#: DE208-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112105708004	08/03/2011 07:12	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112105708004	08/03/2011 07:12	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112105708004	08/03/2011 07:12	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112105708004	08/03/2011 07:12	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112105708004	08/03/2011 07:12	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112105708004	08/03/2011 07:12	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112105708004	08/03/2011 07:12	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112101026003A	08/02/2011 13:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112101026003A	08/02/2011 13:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112101026003D	08/02/2011 13:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112101026003A	08/02/2011 13:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112101026003A	08/02/2011 13:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112101026003A	08/02/2011 13:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112101026003A	08/02/2011 13:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112101026003A	08/02/2011 13:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112101026003A	08/02/2011 13:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112101026003C	08/02/2011 13:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112101026003A	08/02/2011 13:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112101026003B	08/02/2011 13:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112101026003A	08/02/2011 13:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112101026003A	08/02/2011 13:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112101026003A	08/02/2011 13:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112101026003A	08/02/2011 13:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112105711004	08/01/2011 09:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112105708004	07/31/2011 23:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112101026003	07/31/2011 23:21	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112105711004	08/01/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11215621201A	08/03/2011 21:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284202A	08/05/2011 11:10	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11216243202A	08/09/2011 23:53	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11215621201A	08/03/2011 08:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284202A	08/03/2011 17:45	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039404A	08/02/2011 17:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11216243202A	08/04/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401B	07/28/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-236-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-236-SA6-SS-0.0-0.5

LLI Sample # SW 6355051
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 07:52

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL236 SDG#: DE208-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: SL-236-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-236-SA6-SS-0.0-0.5

LLI Sample # SW 6355051
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 07:52

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL236 SDG#: DE208-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.41	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	2.2		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.0	J	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	1.8		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.1	18		1
10138	Fluoranthene	206-44-0	2.2		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	11	J	6.1	18		1
10138	Phenanthrene	85-01-8	1.2	J	0.67	1.7		1
10138	Pyrene	129-00-0	2.1		0.67	1.7		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	3.0		0.62	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1

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Sample Description: SL-236-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-236-SA6-SS-0.0-0.5

LLI Sample # SW 6355051
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 07:52

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL236 SDG#: DE208-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.14	J	0.067	0.34		1
01363	p,p-DDT	50-29-3	0.22	J	0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.15	U	0.15	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.21	U	0.21	0.34		1
01363	Toxaphene	8001-35-2	3.0	U	3.0	6.7		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.9	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	0.83	J	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	14,300		5.93	19.6		1
07914	Boron	7440-42-8	0.974	J	0.353	4.90		1
01650	Calcium	7440-70-2	3,020		2.45	19.6		1
01654	Iron	7439-89-6	19,900		2.56	19.6		1
01656	Lithium	7439-93-2	25.6		0.61	2.0		1
01657	Magnesium	7439-95-4	4,990		0.431	9.81		1
06958	Manganese	7439-96-5	330		0.0353	0.490		1

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Sample Description: SL-236-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-236-SA6-SS-0.0-0.5

LLI Sample # SW 6355051
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 07:52

Submitted: 07/26/2011 09:30
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL236 SDG#: DE208-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	588		0.343	9.81		1
01662	Potassium	7440-09-7	3,750		11.1	49.0		1
01667	Sodium	7440-23-5	72.7	J	5.84	98.1		1
07968	Strontium	7440-24-6	20.6		0.0245	0.490		1
06969	Tin	7440-31-5	2.36	J	0.314	9.81		1
06970	Titanium	7440-32-6	1,170		0.0696	0.981		1
10146	Zirconium	7440-67-7	2.59	J	0.451	4.90		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.160	J	0.0726	0.196		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.82		0.0785	0.392		2
06126	Barium	7440-39-3	143		0.104	0.392		2
06127	Beryllium	7440-41-7	0.564		0.0157	0.0981		2
06128	Cadmium	7440-43-9	0.267		0.0431	0.0981		2
06131	Chromium	7440-47-3	20.2		0.118	0.392		2
06132	Cobalt	7440-48-4	6.75		0.0196	0.0981		2
06133	Copper	7440-50-8	10.9		0.0785	0.392		2
06135	Lead	7439-92-1	12.0		0.0100	0.196		2
06138	Molybdenum	7439-98-7	0.655		0.0490	0.0981		2
06139	Nickel	7440-02-0	16.1		0.0981	0.392		2
06141	Selenium	7782-49-2	0.155	J	0.0569	0.392		2
06142	Silver	7440-22-4	0.0925	J	0.0139	0.0981		2
06145	Thallium	7440-28-0	0.289		0.0294	0.0981		2
06148	Vanadium	7440-62-2	35.3		0.0216	0.0981		2
06149	Zinc	7440-66-6	80.9		0.549	2.94		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0068	U	0.0068	0.0962		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1		0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.52	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.22		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.0		0.50	0.50		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-236-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-236-SA6-SS-0.0-0.5

LLI Sample # SW 6355051
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 07:52

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL236 SDG#: DE208-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLC026	08/16/2011 11:05	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLD026	08/10/2011 05:12	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLD026	08/04/2011 06:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLC026	08/05/2011 06:15	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200018A	08/09/2011 22:47	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	08/31/2011 03:17	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112160013A	08/06/2011 03:47	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112150007A	08/03/2011 19:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112160013A	08/04/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200018A	08/08/2011 22:15	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	112105708004	08/03/2011 07:16	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112105708004	08/03/2011 07:16	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112105708004	08/03/2011 07:16	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112105708004	08/03/2011 07:16	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112105708004	08/03/2011 07:16	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112105708004	08/03/2011 07:16	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112105708004	08/03/2011 07:16	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112105708004	08/03/2011 07:16	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112105708004	08/03/2011 07:16	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112105708004	08/03/2011 07:16	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112105708004	08/03/2011 07:16	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112105708004	08/03/2011 07:16	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112105708004	08/03/2011 07:16	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112105708004	08/03/2011 07:16	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112101026003A	08/02/2011 13:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112101026003A	08/02/2011 13:40	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-236-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-236-SA6-SS-0.0-0.5

LLI Sample # SW 6355051
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 07:52

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL236 SDG#: DE208-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112101026003D	08/02/2011 13:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112101026003A	08/02/2011 13:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112101026003A	08/02/2011 13:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112101026003A	08/02/2011 13:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112101026003A	08/02/2011 13:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112101026003A	08/02/2011 13:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112101026003A	08/02/2011 13:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112101026003C	08/02/2011 13:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112101026003A	08/02/2011 13:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112101026003B	08/02/2011 13:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112101026003A	08/02/2011 13:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112101026003A	08/02/2011 13:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112101026003A	08/02/2011 13:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112101026003A	08/02/2011 13:40	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112105711004	08/01/2011 09:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112105708004	07/31/2011 23:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112101026003	07/31/2011 23:21	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112105711004	08/01/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11215621201A	08/03/2011 21:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284202A	08/05/2011 11:33	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11216243202A	08/10/2011 00:07	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11215621201A	08/03/2011 08:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284202A	08/03/2011 17:45	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039404A	08/02/2011 17:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11216243202A	08/04/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401B	07/28/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-245-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA6-SS-0.0-0.5

LLI Sample # SW 6355052
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 11:39

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL245 SDG#: DE208-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	167	U	167	334		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-245-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA6-SS-0.0-0.5

LLI Sample # SW 6355052
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 11:39

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL245 SDG#: DE208-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	3.4	U	3.4	8.4		5
10138	Benzo(a)pyrene	50-32-8	3.4	U	3.4	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	3.4	U	3.4	8.4		5
10138	Benzo(g,h,i)perylene	191-24-2	3.4	U	3.4	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	3.4	U	3.4	8.4		5
10138	Chrysene	218-01-9	2.3	J	1.7	8.4		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4		5
10138	Fluoranthene	206-44-0	3.4	U	3.4	8.4		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4		5
10138	Phenanthrene	85-01-8	3.4	U	3.4	8.4		5
10138	Pyrene	129-00-0	3.4	U	3.4	8.4		5

Reporting limits were raised due to interference from the sample matrix.

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	56	U	56	110	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-245-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA6-SS-0.0-0.5

LLI Sample # SW 6355052
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 11:39

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL245 SDG#: DE208-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	37	U	37	110	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	75	U	75	220	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	75	U	75	220	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	37	U	37	110	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	37	U	37	110	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	37	U	37	110	10000000	1
10132	HMX	2691-41-0	94	U	94	280	10000000	1
10132	Nitrobenzene	98-95-3	37	U	37	110	10000000	1
10132	Nitroglycerin	55-63-0	750	U	750	2,200	10000000	1
10132	2-Nitrotoluene	88-72-2	75	U	75	110	10000000	1
10132	3-Nitrotoluene	99-08-1	94	U	94	110	10000000	1
10132	4-Nitrotoluene	99-99-0	75	U	75	110	10000000	1
10132	PETN	78-11-5	750	U	750	2,200	10000000	1
10132	RDX	121-82-4	47	U	47	110	10000000	1
10132	Tetryl	479-45-8	57	U	57	110	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	37	U	37	110	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	37	U	37	110	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	2.1		0.63	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	170	U	170	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

Reporting limits were raised for MCPA due to interference from the sample matrix.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-245-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA6-SS-0.0-0.5

LLI Sample # SW 6355052
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 11:39

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL245 SDG#: DE208-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	590	U	590	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.13	J	0.067	0.34		1
01363	p,p-DDT	50-29-3	0.60		0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.11	U	0.11	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.30	U	0.30	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.11	U	0.11	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.21	U	0.21	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	5.9		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-245-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA6-SS-0.0-0.5

LLI Sample # SW 6355052
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 11:39

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL245 SDG#: DE208-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	0.65	J	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	4.5		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	11		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,500		5.87	19.4		1
07914	Boron	7440-42-8	0.981	J	0.350	4.86		1
01650	Calcium	7440-70-2	1,910		2.43	19.4		1
01654	Iron	7439-89-6	18,100		2.53	19.4		1
01656	Lithium	7439-93-2	22.6		0.60	1.9		1
01657	Magnesium	7439-95-4	3,850		0.427	9.71		1
06958	Manganese	7439-96-5	243		0.0350	0.486		1
10145	Phosphorus	7723-14-0	277		0.340	9.71		1
01662	Potassium	7440-09-7	2,710		11.0	48.6		1
01667	Sodium	7440-23-5	85.5	J	5.78	97.1		1
07968	Strontium	7440-24-6	18.1		0.0243	0.486		1
06969	Tin	7440-31-5	2.21	J	0.311	9.71		1
06970	Titanium	7440-32-6	1,010		0.0689	0.971		1
10146	Zirconium	7440-67-7	2.51	J	0.447	4.86		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.137	J	0.0719	0.194		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.42		0.0777	0.388		2
06126	Barium	7440-39-3	106		0.103	0.388		2
06127	Beryllium	7440-41-7	0.738		0.0155	0.0971		2
06128	Cadmium	7440-43-9	0.508		0.0427	0.0971		2
06131	Chromium	7440-47-3	21.9		0.117	0.388		2
06132	Cobalt	7440-48-4	6.28		0.0194	0.0971		2
06133	Copper	7440-50-8	11.9		0.0777	0.388		2
06135	Lead	7439-92-1	11.2		0.0099	0.194		2

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Sample Description: SL-245-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA6-SS-0.0-0.5

LLI Sample # SW 6355052
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 11:39

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL245 SDG#: DE208-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg		mg/kg	mg/kg	mg/kg	
06138	Molybdenum	7439-98-7	0.791		0.0486	0.0971		2
06139	Nickel	7440-02-0	14.5		0.0971	0.388		2
06141	Selenium	7782-49-2	0.532		0.0563	0.388		2
06142	Silver	7440-22-4	0.0697	J	0.0138	0.0971		2
06145	Thallium	7440-28-0	0.335		0.0291	0.0971		2
06148	Vanadium	7440-62-2	37.5		0.0214	0.0971		2
06149	Zinc	7440-66-6	69.3		0.544	2.91		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0202	J	0.0069	0.0988		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.82	1.5		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.56	J	0.20	1.0		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	6.84		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	0.98		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-245-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA6-SS-0.0-0.5

LLI Sample # SW 6355052
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 11:39

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL245 SDG#: DE208-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11213SLA026	08/11/2011 00:02	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLC026	08/16/2011 11:30	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLD026	08/10/2011 05:44	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11213SLA026	08/02/2011 08:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLD026	08/04/2011 06:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLC026	08/05/2011 06:15	Katheryne V Sponheimer	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112140015A	08/05/2011 13:47	Michele D Hamilton	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112080023A	07/30/2011 04:46	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200018A	08/09/2011 23:14	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	08/31/2011 03:32	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112200013A	08/11/2011 20:36	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112150007A	08/03/2011 19:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	112200013A	08/08/2011 16:35	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200018A	08/08/2011 22:15	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112080023A	07/28/2011 12:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	112140015A	08/03/2011 00:45	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112090042A	07/30/2011 02:33	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112080004A	07/27/2011 16:01	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112160030A	08/06/2011 13:07	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112160029A	08/07/2011 05:50	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112160029A	08/05/2011 06:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112160030A	08/05/2011 06:00	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112090042A	07/29/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112080004A	07/27/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112105708004	08/03/2011 07:21	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112105708004	08/03/2011 07:21	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112105708004	08/03/2011 07:21	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112105708004	08/03/2011 07:21	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112105708004	08/03/2011 07:21	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112105708004	08/03/2011 07:21	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112105708004	08/03/2011 07:21	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112105708004	08/03/2011 07:21	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112105708004	08/03/2011 07:21	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112105708004	08/03/2011 07:21	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-245-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA6-SS-0.0-0.5

LLI Sample # SW 6355052
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 11:39

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL245 SDG#: DE208-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112105708004	08/03/2011 07:21	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112105708004	08/03/2011 07:21	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112105708004	08/03/2011 07:21	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112105708004	08/03/2011 07:21	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112101026003A	08/02/2011 13:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112101026003A	08/02/2011 13:43	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112101026003D	08/02/2011 13:43	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112101026003A	08/02/2011 13:43	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112101026003A	08/02/2011 13:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112101026003A	08/02/2011 13:43	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112101026003A	08/02/2011 13:43	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112101026003A	08/02/2011 13:43	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112101026003A	08/02/2011 13:43	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112101026003C	08/02/2011 13:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112101026003A	08/02/2011 13:43	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112101026003B	08/02/2011 13:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112101026003A	08/02/2011 13:43	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112101026003A	08/02/2011 13:43	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112101026003A	08/02/2011 13:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112101026003A	08/02/2011 13:43	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112105711004	08/01/2011 09:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112105708004	07/31/2011 23:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112101026003	07/31/2011 23:21	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112105711004	08/01/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11215621201A	08/03/2011 22:10	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11215621201A	08/03/2011 22:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284202A	08/05/2011 11:56	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11216243202A	08/10/2011 00:29	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11217102201A	08/08/2011 08:21	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11215621201A	08/03/2011 08:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284202A	08/03/2011 17:45	Alex M Rittle	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11217102201A	08/05/2011 15:15	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039404A	08/02/2011 17:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11216243202A	08/04/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-253-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA6-SS-0.0-0.5

LLI Sample # SW 6355053
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 14:21

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL253 SDG#: DE208-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	17.2	J	16.7	33.4		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 40.2 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank or the re-analysis of the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-253-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA6-SS-0.0-0.5

LLI Sample # SW 6355053
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 14:21

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL253 SDG#: DE208-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	1.1	J	0.67	1.7		1
10138	Acenaphthylene	208-96-8	1.2	J	0.34	1.7		1
10138	Anthracene	120-12-7	3.7		0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	2.8		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	2.0		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	2.1		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	2.4		0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.9		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.8	J	6.0	18		1
10138	Chrysene	218-01-9	2.7		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	1.8		0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	15	J	6.0	18		1
10138	Fluoranthene	206-44-0	3.7		0.67	1.7		1
10138	Fluorene	86-73-7	2.8		0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.0		0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.84	J	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	20		6.0	18		1
10138	Phenanthrene	85-01-8	3.7		0.67	1.7		1
10138	Pyrene	129-00-0	3.1		0.67	1.7		1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-253-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA6-SS-0.0-0.5

LLI Sample # SW 6355053
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 14:21

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL253 SDG#: DE208-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	57	U	57	110	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	38	U	38	110	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	76	U	76	230	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	76	U	76	230	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	38	U	38	110	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	38	U	38	110	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	38	U	38	110	10000000	1
10132	HMX	2691-41-0	95	U	95	290	10000000	1
10132	Nitrobenzene	98-95-3	38	U	38	110	10000000	1
10132	Nitroglycerin	55-63-0	760	U	760	2,300	10000000	1
10132	2-Nitrotoluene	88-72-2	76	U	76	110	10000000	1
10132	3-Nitrotoluene	99-08-1	95	U	95	110	10000000	1
10132	4-Nitrotoluene	99-99-0	76	U	76	110	10000000	1
10132	PETN	78-11-5	760	U	760	2,300	10000000	1
10132	RDX	121-82-4	48	U	48	110	10000000	1
10132	Tetryl	479-45-8	58	U	58	110	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	38	U	38	110	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	38	U	38	110	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	1.1	J	0.62	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	170	U	170	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1

Reporting limits were raised for MCPA due to interference from the sample

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Sample Description: SL-253-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA6-SS-0.0-0.5

LLI Sample # SW 6355053
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 14:21

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL253 SDG#: DE208-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
matrix.								
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	680	J	600	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	6.6		0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.23	J	0.067	0.34		1
01363	p,p-DDT	50-29-3	0.44		0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.11	U	0.11	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.16	U	0.16	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	14		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-253-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA6-SS-0.0-0.5

LLI Sample # SW 6355053
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 14:21

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
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SL253 SDG#: DE208-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	1.4		0.40	1.2		1
10199	EFH (C21-C30)	n.a.	8.1		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	24		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.42	J	0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,600		5.86	19.4		1
07914	Boron	7440-42-8	1.16	J	0.349	4.85		1
01650	Calcium	7440-70-2	1,970		2.42	19.4		1
01654	Iron	7439-89-6	18,200		2.53	19.4		1
01656	Lithium	7439-93-2	22.6		0.60	1.9		1
01657	Magnesium	7439-95-4	3,950		0.426	9.69		1
06958	Manganese	7439-96-5	245		0.0349	0.485		1
10145	Phosphorus	7723-14-0	281		0.339	9.69		1
01662	Potassium	7440-09-7	2,730		11.0	48.5		1
01667	Sodium	7440-23-5	86.7	J	5.77	96.9		1
07968	Strontium	7440-24-6	18.2		0.0242	0.485		1
06969	Tin	7440-31-5	2.47	J	0.310	9.69		1
06970	Titanium	7440-32-6	1,040		0.0688	0.969		1
10146	Zirconium	7440-67-7	2.32	J	0.446	4.85		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.125	J	0.0731	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.38		0.0791	0.395		2
06126	Barium	7440-39-3	162		0.262	0.988		5
06127	Beryllium	7440-41-7	0.663		0.0158	0.0988		2
06128	Cadmium	7440-43-9	0.320		0.0435	0.0988		2
06131	Chromium	7440-47-3	15.3		0.119	0.395		2
06132	Cobalt	7440-48-4	4.94		0.0198	0.0988		2
06133	Copper	7440-50-8	8.14		0.0791	0.395		2

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Sample Description: SL-253-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA6-SS-0.0-0.5

LLI Sample # SW 6355053
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 14:21

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
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SL253 SDG#: DE208-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	6.96		0.0101	0.198		2
06138	Molybdenum	7439-98-7	0.648		0.0494	0.0988		2
06139	Nickel	7440-02-0	9.94		0.0988	0.395		2
06141	Selenium	7782-49-2	0.159	J	0.0573	0.395		2
06142	Silver	7440-22-4	0.0559	J	0.0140	0.0988		2
06145	Thallium	7440-28-0	0.281		0.0296	0.0988		2
06148	Vanadium	7440-62-2	28.9		0.0217	0.0988		2
06149	Zinc	7440-66-6	63.6		0.553	2.96		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0182	J	0.0068	0.0967		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.82	U	0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.82		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.79		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-253-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA6-SS-0.0-0.5

LLI Sample # SW 6355053
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 14:21

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SL253 SDG#: DE208-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11213SLA026	08/11/2011 00:21	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLC026	08/16/2011 11:55	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLD026	08/10/2011 18:26	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11213SLA026	08/02/2011 08:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLD026	08/04/2011 06:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLC026	08/05/2011 06:15	Katheryne V Sponheimer	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112140015A	08/05/2011 14:30	Michele D Hamilton	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112080023A	07/30/2011 04:55	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200018A	08/09/2011 23:42	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	08/31/2011 03:46	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112160013A	08/06/2011 04:24	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112150007A	08/03/2011 19:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112160013A	08/04/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200018A	08/08/2011 22:15	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112080023A	07/28/2011 12:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	112140015A	08/03/2011 00:45	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112090042A	07/30/2011 02:48	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112080004A	07/27/2011 16:52	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112160030A	08/06/2011 13:51	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112160029A	08/07/2011 09:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112160029A	08/05/2011 06:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112160030A	08/05/2011 06:00	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112090042A	07/29/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112080004A	07/27/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112105708004	08/03/2011 07:25	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112105708004	08/03/2011 07:25	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112105708004	08/03/2011 07:25	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112105708004	08/03/2011 07:25	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112105708004	08/03/2011 07:25	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112105708004	08/03/2011 07:25	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112105708004	08/03/2011 07:25	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112105708004	08/03/2011 07:25	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112105708004	08/03/2011 07:25	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112105708004	08/03/2011 07:25	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-253-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA6-SS-0.0-0.5

LLI Sample # SW 6355053
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 14:21

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL253 SDG#: DE208-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112105708004	08/03/2011 07:25	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112105708004	08/03/2011 07:25	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112105708004	08/03/2011 07:25	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112105708004	08/03/2011 07:25	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112101026003A	08/02/2011 13:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112101026003A	08/02/2011 13:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112101026003D	08/02/2011 14:21	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	112101026003A	08/02/2011 13:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112101026003A	08/02/2011 13:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112101026003A	08/02/2011 13:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112101026003A	08/02/2011 13:46	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112101026003A	08/02/2011 13:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112101026003A	08/02/2011 13:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112101026003C	08/02/2011 13:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112101026003A	08/02/2011 13:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112101026003B	08/02/2011 13:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112101026003A	08/02/2011 13:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112101026003A	08/02/2011 13:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112101026003A	08/02/2011 13:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112101026003A	08/02/2011 13:46	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112105711004	08/01/2011 10:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112105708004	07/31/2011 23:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112101026003	07/31/2011 23:21	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112105711004	08/01/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11215621201A	08/03/2011 22:25	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11215621201A	08/03/2011 22:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284202A	08/05/2011 12:19	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11216243202A	08/10/2011 00:44	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11217102201A	08/08/2011 08:22	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11215621201A	08/03/2011 08:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284202A	08/03/2011 17:45	Alex M Rittle	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11217102201A	08/05/2011 15:15	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039404A	08/02/2011 17:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11216243202A	08/04/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-254-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA6-SS-0.0-0.5

LLI Sample # SW 6355054
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 13:45

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE208-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	16.6	U	16.6	33.3		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-254-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA6-SS-0.0-0.5

LLI Sample # SW 6355054
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 13:45

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE208-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	3.4	U	3.4	8.4		5
10138	Benzo(a)pyrene	50-32-8	3.4	U	3.4	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	3.4	U	3.4	8.4		5
10138	Benzo(g,h,i)perylene	191-24-2	3.4	U	3.4	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	3.4	U	3.4	8.4		5
10138	Chrysene	218-01-9	3.6	J	1.7	8.4		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4		5
10138	Diethylphthalate	84-66-2	46	J	30	91		5
10138	Fluoranthene	206-44-0	3.4	U	3.4	8.4		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4		5
10138	Phenanthrene	85-01-8	3.4	U	3.4	8.4		5
10138	Pyrene	129-00-0	3.4	U	3.4	8.4		5
	Reporting limits were raised due to interference from the sample matrix.							
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.							
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	60	U	60	120	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-254-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA6-SS-0.0-0.5

LLI Sample # SW 6355054
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 13:45

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE208-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	50	U	50	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	0.62	U	0.62	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.35		0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	600	U	600	1,500		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-254-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA6-SS-0.0-0.5

LLI Sample # SW 6355054
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 13:45

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE208-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.14	J	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.15	U	0.15	0.34		1
01363	p,p-DDT	50-29-3	1.0		0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.060	U	0.060	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.18	U	0.18	0.34		1
01363	Toxaphene	8001-35-2	11	U	11	11		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	3.4		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-254-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA6-SS-0.0-0.5

LLI Sample # SW 6355054
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 13:45

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE208-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.0	U	4.0	12		10
10199	EFH (C15-C20)	n.a.	4.0	U	4.0	12		10
10199	EFH (C21-C30)	n.a.	58		4.0	12		10
10199	EFH (C30 - C40)	n.a.	240		4.0	12		10
10199	EFH (C8-C11)	n.a.	4.0	U	4.0	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,500		5.98	19.8		1
07914	Boron	7440-42-8	0.856	J	0.356	4.94		1
01650	Calcium	7440-70-2	2,180		2.47	19.8		1
01654	Iron	7439-89-6	21,000		2.58	19.8		1
01656	Lithium	7439-93-2	23.9		0.61	2.0		1
01657	Magnesium	7439-95-4	4,350		0.435	9.88		1
06958	Manganese	7439-96-5	249		0.0356	0.494		1
10145	Phosphorus	7723-14-0	354		0.346	9.88		1
01662	Potassium	7440-09-7	3,340		11.2	49.4		1
01667	Sodium	7440-23-5	69.5	J	5.88	98.8		1
07968	Strontium	7440-24-6	17.2		0.0247	0.494		1
06969	Tin	7440-31-5	3.31	J	0.316	9.88		1
06970	Titanium	7440-32-6	1,120		0.0701	0.988		1
10146	Zirconium	7440-67-7	2.45	J	0.454	4.94		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.130	J	0.0746	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.39		0.0806	0.403		2
06126	Barium	7440-39-3	84.6		0.107	0.403		2
06127	Beryllium	7440-41-7	0.630		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.393		0.0443	0.101		2
06131	Chromium	7440-47-3	18.2		0.121	0.403		2
06132	Cobalt	7440-48-4	5.69		0.0202	0.101		2
06133	Copper	7440-50-8	8.63		0.0806	0.403		2
06135	Lead	7439-92-1	10.2		0.0103	0.202		2
06138	Molybdenum	7439-98-7	0.580		0.0504	0.101		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-254-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA6-SS-0.0-0.5

LLI Sample # SW 6355054
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 13:45

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE208-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	14.1		0.101	0.403		2
06141	Selenium	7782-49-2	0.203	J	0.0584	0.403		2
06142	Silver	7440-22-4	0.0607	J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.300		0.0302	0.101		2
06148	Vanadium	7440-62-2	33.7		0.0222	0.101		2
06149	Zinc	7440-66-6	65.5		0.564	3.02		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0115	J	0.0069	0.0982		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1	J	0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.56	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.17	U	0.17	0.48		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.18		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.76		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11213SLA026	08/11/2011 00:40	Matthew S Woods	1

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Sample Description: SL-254-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA6-SS-0.0-0.5

LLI Sample # SW 6355054
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 13:45

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE208-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLC026	08/16/2011 12:20	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLD026	08/10/2011 18:58	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11213SLA026	08/02/2011 08:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLD026	08/04/2011 06:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLC026	08/05/2011 06:15	Katheryne V Sponheimer	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112140015A	08/05/2011 15:12	Michele D Hamilton	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112080023A	07/30/2011 05:05	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200018A	08/10/2011 01:04	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	08/31/2011 08:58	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112160013A	08/06/2011 04:43	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112150007A	08/03/2011 19:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112160013A	08/04/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200018A	08/08/2011 22:15	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112080023A	07/28/2011 12:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	112140015A	08/03/2011 00:45	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112090042A	07/30/2011 03:03	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112080004A	07/27/2011 17:05	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112160030A	08/06/2011 18:19	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112160029A	08/07/2011 11:52	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112160029A	08/05/2011 06:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112160030A	08/05/2011 06:00	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112090042A	07/29/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112080004A	07/27/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112105708004	08/03/2011 07:29	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112105708004	08/03/2011 07:29	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112105708004	08/03/2011 07:29	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112105708004	08/03/2011 07:29	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112105708004	08/03/2011 07:29	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112105708004	08/03/2011 07:29	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112105708004	08/03/2011 07:29	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112105708004	08/03/2011 07:29	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112105708004	08/03/2011 07:29	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112105708004	08/03/2011 07:29	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112105708004	08/03/2011 07:29	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-254-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA6-SS-0.0-0.5

LLI Sample # SW 6355054
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 13:45

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE208-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112105708004	08/03/2011 07:29	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112105708004	08/03/2011 07:29	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112105708004	08/03/2011 07:29	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112101026003A	08/02/2011 13:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112101026003A	08/02/2011 13:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112101026003D	08/02/2011 13:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112101026003A	08/02/2011 13:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112101026003A	08/02/2011 13:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112101026003A	08/02/2011 13:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112101026003A	08/02/2011 13:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112101026003A	08/02/2011 13:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112101026003A	08/02/2011 13:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112101026003C	08/02/2011 13:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112101026003A	08/02/2011 13:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112101026003B	08/02/2011 13:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112101026003A	08/02/2011 13:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112101026003A	08/02/2011 13:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112101026003A	08/02/2011 13:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112101026003A	08/02/2011 13:49	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112105711004	08/01/2011 10:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112105708004	07/31/2011 23:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112101026003	07/31/2011 23:21	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112105711004	08/01/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11215621201A	08/03/2011 22:39	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11215621201A	08/03/2011 22:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284202A	08/05/2011 12:43	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11216243202A	08/10/2011 08:49	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11217102201A	08/08/2011 08:23	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11215621201A	08/03/2011 08:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284202A	08/03/2011 17:45	Alex M Rittle	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11217102201A	08/05/2011 15:15	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039404A	08/02/2011 17:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11216243202A	08/04/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-255-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-255-SA6-SS-0.0-0.5

LLI Sample # SW 6355055
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:35

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL255 SDG#: DE208-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	16.7	U	16.7	33.5		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	29	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-255-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-255-SA6-SS-0.0-0.5

LLI Sample # SW 6355055
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:35

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL255 SDG#: DE208-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.88	J	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	1.3	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	2.6		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.91	J	0.67	1.7		1
10138	Naphthalene	91-20-3	2.2		0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	2.7		0.67	1.7		1
10138	Pyrene	129-00-0	1.6	J	0.67	1.7		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	57	U	57	110	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	38	U	38	110	10000000	1

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Sample Description: SL-255-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-255-SA6-SS-0.0-0.5

LLI Sample # SW 6355055
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:35

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL255 SDG#: DE208-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	76	U	76	230	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	76	U	76	230	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	38	U	38	110	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	38	U	38	110	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	38	U	38	110	10000000	1
10132	HMX	2691-41-0	95	U	95	290	10000000	1
10132	Nitrobenzene	98-95-3	38	U	38	110	10000000	1
10132	Nitroglycerin	55-63-0	760	U	760	2,300	10000000	1
10132	2-Nitrotoluene	88-72-2	76	U	76	110	10000000	1
10132	3-Nitrotoluene	99-08-1	95	U	95	110	10000000	1
10132	4-Nitrotoluene	99-99-0	76	U	76	110	10000000	1
10132	PETN	78-11-5	760	U	760	2,300	10000000	1
10132	RDX	121-82-4	48	U	48	110	10000000	1
10132	Tetryl	479-45-8	58	U	58	110	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	38	U	38	110	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	38	U	38	110	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	0.63	U	0.63	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	300	U	300	300		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	Reporting limits were raised for MCPA due to interference from the sample matrix.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	600	U	600	1,500		1

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SSFL Area IV Collocated Soil Sampling
SL-255-SA6-SS-0.0-0.5

LLI Sample # SW 6355055
LLI Group # 1258174
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SL255 SDG#: DE208-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.067	U	0.067	0.34		1
01363	p,p-DDT	50-29-3	0.20	J	0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.12	U	0.12	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	3.1		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1

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Sample Description: SL-255-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-255-SA6-SS-0.0-0.5

LLI Sample # SW 6355055
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:35

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL255 SDG#: DE208-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	0.67	J	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	4.2		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	17		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.43	J	0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900		5.88	19.4		1
07914	Boron	7440-42-8	0.931	J	0.350	4.86		1
01650	Calcium	7440-70-2	1,590		2.43	19.4		1
01654	Iron	7439-89-6	16,400		2.54	19.4		1
01656	Lithium	7439-93-2	19.8		0.60	1.9		1
01657	Magnesium	7439-95-4	3,230		0.428	9.72		1
06958	Manganese	7439-96-5	202		0.0350	0.486		1
10145	Phosphorus	7723-14-0	224		0.340	9.72		1
01662	Potassium	7440-09-7	2,500		11.0	48.6		1
01667	Sodium	7440-23-5	97.7		5.78	97.2		1
07968	Strontium	7440-24-6	16.1		0.0243	0.486		1
06969	Tin	7440-31-5	2.24	J	0.311	9.72		1
06970	Titanium	7440-32-6	961		0.0690	0.972		1
10146	Zirconium	7440-67-7	1.76	J	0.447	4.86		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0753	J	0.0719	0.194		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.23		0.0778	0.389		2
06126	Barium	7440-39-3	82.7		0.103	0.389		2
06127	Beryllium	7440-41-7	0.673		0.0156	0.0972		2
06128	Cadmium	7440-43-9	0.205		0.0428	0.0972		2
06131	Chromium	7440-47-3	14.7		0.117	0.389		2
06132	Cobalt	7440-48-4	5.23		0.0194	0.0972		2
06133	Copper	7440-50-8	10.2		0.0778	0.389		2
06135	Lead	7439-92-1	7.03		0.0099	0.194		2
06138	Molybdenum	7439-98-7	0.716		0.0486	0.0972		2
06139	Nickel	7440-02-0	9.26		0.0972	0.389		2
06141	Selenium	7782-49-2	0.207	J	0.0564	0.389		2
06142	Silver	7440-22-4	0.0441	J	0.0138	0.0972		2
06145	Thallium	7440-28-0	0.293		0.0292	0.0972		2
06148	Vanadium	7440-62-2	28.3		0.0214	0.0972		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-255-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-255-SA6-SS-0.0-0.5

LLI Sample # SW 6355055
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:35

Submitted: 07/26/2011 09:30
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL255 SDG#: DE208-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg		mg/kg	mg/kg	mg/kg	
06149	Zinc	7440-66-6	69.8		0.544	2.92		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0070	U	0.0070	0.0999		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.9		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.82	U	0.82	1.5		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	6.78		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	1.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11213SLA026	08/11/2011 01:19	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLC026	08/16/2011 12:45	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLD026	08/10/2011 19:31	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11213SLA026	08/02/2011 08:30	Olivia Arosemena	1

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Sample Description: SL-255-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-255-SA6-SS-0.0-0.5

LLI Sample # SW 6355055
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:35

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL255 SDG#: DE208-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLD026	08/04/2011 06:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLC026	08/05/2011 06:15	Katheryne V Sponheimer	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112140015A	08/05/2011 15:54	Michele D Hamilton	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112080023A	07/30/2011 05:14	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200018A	08/10/2011 01:32	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	08/31/2011 04:01	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112160013A	08/06/2011 05:01	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112150007A	08/03/2011 19:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112160013A	08/04/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200018A	08/08/2011 22:15	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112080023A	07/28/2011 12:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	112140015A	08/03/2011 00:45	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112090042A	07/30/2011 03:18	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112080004A	07/27/2011 17:18	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112160030A	08/06/2011 14:36	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112160029A	08/07/2011 07:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112160029A	08/05/2011 06:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112160030A	08/05/2011 06:00	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112090042A	07/29/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112080004A	07/27/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112105708004	08/03/2011 07:34	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112105708004	08/03/2011 07:34	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112105708004	08/03/2011 07:34	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112105708004	08/03/2011 07:34	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112105708004	08/03/2011 07:34	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112105708004	08/03/2011 07:34	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112105708004	08/03/2011 07:34	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112105708004	08/03/2011 07:34	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112105708004	08/03/2011 07:34	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112105708004	08/03/2011 07:34	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112105708004	08/03/2011 07:34	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112105708004	08/03/2011 07:34	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112105708004	08/03/2011 07:34	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112105708004	08/03/2011 07:34	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112101026003A	08/02/2011 13:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112101026003A	08/02/2011 13:53	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-255-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-255-SA6-SS-0.0-0.5

LLI Sample # SW 6355055
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:35

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL255 SDG#: DE208-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112101026003D	08/02/2011 13:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112101026003A	08/02/2011 13:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112101026003A	08/02/2011 13:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112101026003A	08/02/2011 13:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112101026003A	08/02/2011 13:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112101026003A	08/02/2011 13:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112101026003A	08/02/2011 13:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112101026003C	08/02/2011 13:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112101026003A	08/02/2011 13:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112101026003B	08/02/2011 13:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112101026003A	08/02/2011 13:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112101026003A	08/02/2011 13:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112101026003A	08/02/2011 13:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112101026003A	08/02/2011 13:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112105711004	08/01/2011 10:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112105708004	07/31/2011 23:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112101026003	07/31/2011 23:21	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112105711004	08/01/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11215621201A	08/03/2011 23:21	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11215621201A	08/03/2011 23:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284202A	08/05/2011 13:06	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11216243202A	08/10/2011 08:56	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11217102201A	08/08/2011 08:25	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11215621201A	08/03/2011 08:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284202A	08/03/2011 17:45	Alex M Rittle	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11217102201A	08/05/2011 15:15	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039404A	08/02/2011 17:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11216243202A	08/04/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-256-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA6-SS-0.0-0.5

LLI Sample # SW 6355056
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:20

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL256 SDG#: DE208-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	16.7	U	16.7	33.4		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-256-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA6-SS-0.0-0.5

LLI Sample # SW 6355056
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:20

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL256 SDG#: DE208-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.99	J	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.92	J	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.8		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.0	J	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	1.7		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.3	J	6.1	18		1
10138	Fluoranthene	206-44-0	2.4		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.68	J	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	11	J	6.1	18		1
10138	Phenanthrene	85-01-8	1.4	J	0.67	1.7		1
10138	Pyrene	129-00-0	1.6	J	0.67	1.7		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	57	U	57	110	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	38	U	38	110	10000000	1

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Sample Description: SL-256-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA6-SS-0.0-0.5

LLI Sample # SW 6355056
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:20

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL256 SDG#: DE208-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	76	U	76	230	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	76	U	76	230	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	38	U	38	110	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	38	U	38	110	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	38	U	38	110	10000000	1
10132	HMX	2691-41-0	95	U	95	290	10000000	1
10132	Nitrobenzene	98-95-3	38	U	38	110	10000000	1
10132	Nitroglycerin	55-63-0	760	U	760	2,300	10000000	1
10132	2-Nitrotoluene	88-72-2	76	U	76	110	10000000	1
10132	3-Nitrotoluene	99-08-1	95	U	95	110	10000000	1
10132	4-Nitrotoluene	99-99-0	76	U	76	110	10000000	1
10132	PETN	78-11-5	760	U	760	2,300	10000000	1
10132	RDX	121-82-4	48	U	48	110	10000000	1
10132	Tetryl	479-45-8	58	U	58	110	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	38	U	38	110	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	38	U	38	110	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	0.63	U	0.63	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	160	U	160	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	Reporting limits were raised for MCPA due to interference from the sample matrix.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	600	U	600	1,500		1

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Sample Description: SL-256-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA6-SS-0.0-0.5

LLI Sample # SW 6355056
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:20

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL256 SDG#: DE208-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.1		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	5.4		0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.25	U	0.25	0.34		1
01363	p,p-DDT	50-29-3	0.49	U	0.49	0.49		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.081	U	0.081	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	3.4		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	8.7		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-256-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA6-SS-0.0-0.5

LLI Sample # SW 6355056
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:20

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL256 SDG#: DE208-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	0.99	J	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	7.2		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	26		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.44	J	0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,300		6.06	20.0		1
07914	Boron	7440-42-8	1.87	J	0.360	5.01		1
01650	Calcium	7440-70-2	2,960		2.50	20.0		1
01654	Iron	7439-89-6	18,100		2.61	20.0		1
01656	Lithium	7439-93-2	20.8		0.62	2.0		1
01657	Magnesium	7439-95-4	3,660		0.440	10.0		1
06958	Manganese	7439-96-5	238		0.0360	0.501		1
10145	Phosphorus	7723-14-0	277		0.350	10.0		1
01662	Potassium	7440-09-7	2,960		11.3	50.1		1
01667	Sodium	7440-23-5	79.0	J	5.96	100		1
07968	Strontium	7440-24-6	18.2		0.0250	0.501		1
06969	Tin	7440-31-5	2.40	J	0.320	10.0		1
06970	Titanium	7440-32-6	1,020		0.0711	1.00		1
10146	Zirconium	7440-67-7	2.49	J	0.461	5.01		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.107	J	0.0741	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.02		0.0801	0.400		2
06126	Barium	7440-39-3	95.4		0.106	0.400		2
06127	Beryllium	7440-41-7	0.690		0.0160	0.100		2
06128	Cadmium	7440-43-9	0.233		0.0440	0.100		2
06131	Chromium	7440-47-3	17.9		0.120	0.400		2
06132	Cobalt	7440-48-4	5.87		0.0200	0.100		2
06133	Copper	7440-50-8	9.04		0.0801	0.400		2
06135	Lead	7439-92-1	8.60		0.0102	0.200		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-256-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA6-SS-0.0-0.5

LLI Sample # SW 6355056
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:20

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL256 SDG#: DE208-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg		mg/kg	mg/kg	mg/kg	
06138	Molybdenum	7439-98-7	0.703		0.0501	0.100		2
06139	Nickel	7440-02-0	11.7		0.100	0.400		2
06141	Selenium	7782-49-2	0.218	J	0.0581	0.400		2
06142	Silver	7440-22-4	0.0441	J	0.0142	0.100		2
06145	Thallium	7440-28-0	0.358		0.0300	0.100		2
06148	Vanadium	7440-62-2	33.8		0.0220	0.100		2
06149	Zinc	7440-66-6	67.5		0.561	3.00		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0071	J	0.0070	0.0993		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.82	U	0.82	1.5		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.20	1.0		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.61		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	1.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-256-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA6-SS-0.0-0.5

LLI Sample # SW 6355056
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:20

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL256 SDG#: DE208-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11213SLA026	08/11/2011 01:39	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLC026	08/16/2011 13:10	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLD026	08/10/2011 20:03	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11213SLA026	08/02/2011 08:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLD026	08/04/2011 06:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLC026	08/05/2011 06:15	Katheryne V Sponheimer	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112140015A	08/05/2011 16:37	Michele D Hamilton	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112080023A	07/30/2011 05:24	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200018A	08/10/2011 02:00	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112200028A	08/10/2011 14:20	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	08/31/2011 05:46	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112160013A	08/06/2011 05:20	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112150007A	08/03/2011 19:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112160013A	08/04/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200018A	08/08/2011 22:15	Karen L Beyer	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112200028A	08/09/2011 09:30	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112080023A	07/28/2011 12:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	112140015A	08/03/2011 00:45	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112090042A	07/30/2011 03:33	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112080004A	07/27/2011 17:31	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112160030A	08/06/2011 16:50	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112160029A	08/07/2011 10:15	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112160029A	08/05/2011 06:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112160030A	08/05/2011 06:00	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112090042A	07/29/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112080004A	07/27/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112105708004	08/03/2011 07:38	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112105708004	08/03/2011 07:38	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112105708004	08/03/2011 07:38	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112105708004	08/03/2011 07:38	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112105708004	08/03/2011 07:38	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112105708004	08/03/2011 07:38	Joanne M Gates	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-256-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA6-SS-0.0-0.5

LLI Sample # SW 6355056
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:20

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL256 SDG#: DE208-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	112105708004	08/03/2011 07:38	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112105708004	08/03/2011 07:38	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112105708004	08/03/2011 07:38	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112105708004	08/03/2011 07:38	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112105708004	08/03/2011 07:38	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112105708004	08/03/2011 07:38	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112105708004	08/03/2011 07:38	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112105708004	08/03/2011 07:38	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112101026003A	08/02/2011 13:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112101026003A	08/02/2011 13:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112101026003D	08/02/2011 13:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112101026003A	08/02/2011 13:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112101026003A	08/02/2011 13:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112101026003A	08/02/2011 13:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112101026003A	08/02/2011 13:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112101026003A	08/02/2011 13:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112101026003A	08/02/2011 13:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112101026003C	08/02/2011 13:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112101026003A	08/02/2011 13:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112101026003B	08/02/2011 13:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112101026003A	08/02/2011 13:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112101026003A	08/02/2011 13:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112101026003A	08/02/2011 13:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112101026003A	08/02/2011 13:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112105711004	08/01/2011 10:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112105708004	07/31/2011 23:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112101026003	07/31/2011 23:21	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112105711004	08/01/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11215621201A	08/03/2011 23:36	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11215621201A	08/03/2011 23:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284202A	08/05/2011 13:29	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11216243202A	08/10/2011 09:18	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11217102201A	08/08/2011 08:26	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11215621201A	08/03/2011 08:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284202A	08/03/2011 17:45	Alex M Rittle	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11217102201A	08/05/2011 15:15	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039404B	08/02/2011 17:45	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-256-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA6-SS-0.0-0.5

LLI Sample # SW 6355056
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:20

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL256 SDG#: DE208-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11216243202A	08/04/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-268-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-268-SA6-SS-0.0-0.5

LLI Sample # SW 6355057
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 14:53

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL268 SDG#: DE208-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	165	U	165	331		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	1,700	U	1,700	5,000		1
04688	Benzidine	92-87-5	12,000	U	12,000	34,000		1
04688	Benzo(g,h,i)perylene	191-24-2	190	J	170	1,700		1
04688	Benzoic acid	65-85-0	1,700	U	1,700	5,000		1
04688	Benzyl alcohol	100-51-6	1,700	U	1,700	5,000		1
04688	4-Bromophenyl-phenylether	101-55-3	170	U	170	1,700		1
04688	Carbazole	86-74-8	170	U	170	1,700		1
04688	4-Chloro-3-methylphenol	59-50-7	340	U	340	1,700		1
04688	4-Chloroaniline	106-47-8	670	U	670	1,700		1
04688	bis(2-Chloroethoxy)methane	111-91-1	170	U	170	1,700		1
04688	bis(2-Chloroethyl)ether	111-44-4	170	U	170	1,700		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	170	U	170	1,700		1
04688	2-Chloronaphthalene	91-58-7	170	U	170	1,700		1
04688	2-Chlorophenol	95-57-8	170	U	170	1,700		1
04688	4-Chlorophenyl-phenylether	7005-72-3	340	U	340	1,700		1
04688	Chrysene	218-01-9	350	J	170	1,700		1
04688	Dibenzofuran	132-64-9	170	U	170	1,700		1
04688	1,2-Dichlorobenzene	95-50-1	170	U	170	1,700		1
04688	1,3-Dichlorobenzene	541-73-1	170	U	170	1,700		1
04688	1,4-Dichlorobenzene	106-46-7	170	U	170	1,700		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,000	U	1,000	3,400		1
04688	2,4-Dichlorophenol	120-83-2	170	U	170	1,700		1
04688	2,4-Dimethylphenol	105-67-9	340	U	340	1,700		1
04688	3,5-Dimethylphenol	108-68-9	340	U	340	1,700		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,700	U	1,700	5,000		1
04688	2,4-Dinitrophenol	51-28-5	3,400	U	3,400	10,000		1
04688	2,4-Dinitrotoluene	121-14-2	340	U	340	1,700		1
04688	2,6-Dinitrotoluene	606-20-2	170	U	170	1,700		1
04688	1,2-Diphenylhydrazine	122-66-7	170	U	170	1,700		1
04688	Hexachlorobenzene	118-74-1	170	U	170	1,700		1
04688	Hexachlorobutadiene	87-68-3	670	U	670	1,700		1
04688	Hexachlorocyclopentadiene	77-47-4	1,700	U	1,700	5,000		1
04688	Hexachloroethane	67-72-1	170	U	170	1,700		1
04688	Isophorone	78-59-1	170	U	170	1,700		1
04688	2-Methylphenol	95-48-7	340	U	340	1,700		1
04688	4-Methylphenol	106-44-5	340	U	340	1,700		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	170	U	170	1,700		1
04688	3-Nitroaniline	99-09-2	340	U	340	1,700		1
04688	4-Nitroaniline	100-01-6	670	U	670	1,700		1
04688	Nitrobenzene	98-95-3	170	U	170	1,700		1
04688	2-Nitrophenol	88-75-5	170	U	170	1,700		1
04688	4-Nitrophenol	100-02-7	1,700	U	1,700	5,000		1
04688	N-Nitroso-di-n-propylamine	621-64-7	170	U	170	1,700		1

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Sample Description: SL-268-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-268-SA6-SS-0.0-0.5

LLI Sample # SW 6355057
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 14:53

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL268 SDG#: DE208-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	N-Nitrosodiphenylamine	86-30-6	170	U	170	1,700		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	1,700	U	1,700	5,000		1
04688	Phenol	108-95-2	170	U	170	1,700		1
04688	Tetralin	119-64-2	1,700	U	1,700	1,700		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	170	U	170	1,700		1
04688	2,4,5-Trichlorophenol	95-95-4	340	U	340	1,700		1
04688	2,4,6-Trichlorophenol	88-06-2	340	U	340	1,700		1
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4		5
10138	Anthracene	120-12-7	22		1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	310		3.4	8.4		5
10138	Benzo(a)pyrene	50-32-8	210		3.4	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	360		3.4	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	130		3.4	8.4		5
10138	Butylbenzylphthalate	85-68-7	30	U	30	91		5
10138	Di-n-butylphthalate	84-74-2	30	U	30	91		5
10138	Dibenz(a,h)anthracene	53-70-3	21		3.4	8.4		5
10138	Diethylphthalate	84-66-2	30	U	30	91		5
10138	Dimethylphthalate	131-11-3	30	U	30	91		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	30	U	30	91		5
10138	Fluoranthene	206-44-0	530		3.4	8.4		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	60		3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4		5
10138	Di-n-octylphthalate	117-84-0	30	U	30	91		5
10138	Phenanthrene	85-01-8	45		3.4	8.4		5
10138	Pyrene	129-00-0	400		3.4	8.4		5
	Reporting limits were raised due to interference from the sample matrix.							
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.							
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-268-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-268-SA6-SS-0.0-0.5

LLI Sample # SW 6355057
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 14:53

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL268 SDG#: DE208-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	55	U	55	110	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	37	U	37	110	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	73	U	73	220	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	73	U	73	220	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	37	U	37	110	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	37	U	37	110	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	37	U	37	110	10000000	1
10132	HMX	2691-41-0	92	U	92	280	10000000	1
10132	Nitrobenzene	98-95-3	37	U	37	110	10000000	1
10132	Nitroglycerin	55-63-0	730	U	730	2,200	10000000	1
10132	2-Nitrotoluene	88-72-2	73	U	73	110	10000000	1
10132	3-Nitrotoluene	99-08-1	92	U	92	110	10000000	1
10132	4-Nitrotoluene	99-99-0	73	U	73	110	10000000	1
10132	PETN	78-11-5	730	U	730	2,200	10000000	1
10132	RDX	121-82-4	46	U	46	110	10000000	1
10132	Tetryl	479-45-8	56	U	56	110	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	37	U	37	110	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	37	U	37	110	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	0.62	U	0.62	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	410	U	410	410		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.26	U	0.26	0.26		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1

Reporting limits were raised for MCPA and 2,4,5-T due to interference from the

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Sample Description: SL-268-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-268-SA6-SS-0.0-0.5

LLI Sample # SW 6355057
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 14:53

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL268 SDG#: DE208-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	sample matrix.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	600	U	600	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.071	U	0.071	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.080	J	0.034	0.17		1
01363	Chlordane	57-74-9	10		0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.40	U	0.40	0.40		1
01363	p,p-DDT	50-29-3	2.4		0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.79	U	0.79	0.79		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.49	U	0.49	0.49		1
01363	Methoxychlor	72-43-5	0.69	U	0.69	1.7		1
01363	Mirex	2385-85-5	0.51	U	0.51	0.51		1
01363	Toxaphene	8001-35-2	44	U	44	44		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	7.4		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	15		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1

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Sample Description: SL-268-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-268-SA6-SS-0.0-0.5

LLI Sample # SW 6355057
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 14:53

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL268 SDG#: DE208-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.0	U	4.0	12		10
10199	EFH (C15-C20)	n.a.	10	J	4.0	12		10
10199	EFH (C21-C30)	n.a.	210		4.0	12		10
10199	EFH (C30 - C40)	n.a.	450		4.0	12		10
10199	EFH (C8-C11)	n.a.	4.0	U	4.0	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,100		5.87	19.4		1
07914	Boron	7440-42-8	0.762	J	0.349	4.85		1
01650	Calcium	7440-70-2	2,440		2.42	19.4		1
01654	Iron	7439-89-6	25,500		2.53	19.4		1
01656	Lithium	7439-93-2	20.8		0.60	1.9		1
01657	Magnesium	7439-95-4	3,600		0.427	9.70		1
06958	Manganese	7439-96-5	297		0.0349	0.485		1
10145	Phosphorus	7723-14-0	365		0.339	9.70		1
01662	Potassium	7440-09-7	3,330		11.0	48.5		1
01667	Sodium	7440-23-5	61.1	J	5.77	97.0		1
07968	Strontium	7440-24-6	17.3		0.0242	0.485		1
06969	Tin	7440-31-5	1.13	J	0.310	9.70		1
06970	Titanium	7440-32-6	866		0.0689	0.970		1
10146	Zirconium	7440-67-7	1.54	J	0.446	4.85		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.534		0.0725	0.196		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.76		0.0784	0.392		2
06126	Barium	7440-39-3	84.8		0.104	0.392		2

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Sample Description: SL-268-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-268-SA6-SS-0.0-0.5

LLI Sample # SW 6355057
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 14:53

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL268 SDG#: DE208-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg		mg/kg	mg/kg	mg/kg	
06127	Beryllium	7440-41-7	0.536		0.0157	0.0979		2
06128	Cadmium	7440-43-9	1.07		0.0431	0.0979		2
06131	Chromium	7440-47-3	15.7		0.118	0.392		2
06132	Cobalt	7440-48-4	5.21		0.0196	0.0979		2
06133	Copper	7440-50-8	21.1		0.0784	0.392		2
06135	Lead	7439-92-1	3,080		0.499	9.79		100
06138	Molybdenum	7439-98-7	0.955		0.0490	0.0979		2
06139	Nickel	7440-02-0	12.1		0.0979	0.392		2
06141	Selenium	7782-49-2	0.626		0.0568	0.392		2
06142	Silver	7440-22-4	3.39		0.0139	0.0979		2
06145	Thallium	7440-28-0	0.240		0.0294	0.0979		2
06148	Vanadium	7440-62-2	26.9		0.0215	0.0979		2
06149	Zinc	7440-66-6	107		0.548	2.94		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	2.60		0.0340	0.484		5
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7		0.81	1.5		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.54	J	0.20	1.0		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.09		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	0.87		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-268-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-268-SA6-SS-0.0-0.5

LLI Sample # SW 6355057
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 14:53

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL268 SDG#: DE208-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11213SLA026	08/11/2011 01:58	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLC026	08/16/2011 13:35	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLD026	08/10/2011 20:35	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11213SLA026	08/02/2011 08:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLD026	08/04/2011 06:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLC026	08/05/2011 06:15	Katheryne V Sponheimer	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112140015A	08/05/2011 17:19	Michele D Hamilton	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112080023A	07/30/2011 05:33	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200018A	08/10/2011 02:27	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112150007A	08/31/2011 09:13	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112200013A	08/11/2011 20:54	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112150007A	08/03/2011 19:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	112200013A	08/08/2011 16:35	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200018A	08/08/2011 22:15	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112080023A	07/28/2011 12:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	112140015A	08/03/2011 00:45	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112090042A	07/30/2011 03:47	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112080004A	07/27/2011 17:44	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112160030A	08/06/2011 20:33	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112160029A	08/07/2011 13:28	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112160029A	08/05/2011 06:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112160030A	08/05/2011 06:00	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112090042A	07/29/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112080004A	07/27/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112105708004	08/03/2011 07:42	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112105708004	08/03/2011 07:42	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112105708004	08/03/2011 07:42	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112105708004	08/03/2011 07:42	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112105708004	08/03/2011 07:42	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112105708004	08/03/2011 07:42	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112105708004	08/03/2011 07:42	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112105708004	08/03/2011 07:42	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112105708004	08/03/2011 07:42	Joanne M Gates	1

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Sample Description: SL-268-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-268-SA6-SS-0.0-0.5

LLI Sample # SW 6355057
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 14:53

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL268 SDG#: DE208-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	112105708004	08/03/2011 07:42	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112105708004	08/03/2011 07:42	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112105708004	08/03/2011 07:42	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112105708004	08/03/2011 07:42	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112105708004	08/03/2011 07:42	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112101026003A	08/02/2011 13:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112101026003A	08/02/2011 13:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112101026003D	08/02/2011 13:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112101026003A	08/02/2011 13:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112101026003A	08/02/2011 13:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112101026003A	08/02/2011 13:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112101026003A	08/02/2011 13:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112101026003A	08/02/2011 13:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112101026003A	08/02/2011 14:24	Choon Y Tian	100
06138	Molybdenum	SW-846 6020	1	112101026003C	08/02/2011 13:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112101026003A	08/02/2011 13:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112101026003B	08/02/2011 13:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112101026003A	08/02/2011 13:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112101026003A	08/02/2011 13:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112101026003A	08/02/2011 13:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112101026003A	08/02/2011 13:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112105711004	08/01/2011 10:50	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	112105708004	07/31/2011 23:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112101026003	07/31/2011 23:21	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112105711004	08/01/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11215621201B	08/04/2011 00:32	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11215621201B	08/04/2011 00:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284202B	08/05/2011 15:24	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11216243202A	08/10/2011 09:25	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11217102201A	08/08/2011 08:27	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11215621201B	08/03/2011 08:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284201A	08/03/2011 17:45	Alex M Rittle	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11217102201A	08/05/2011 15:15	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039404B	08/02/2011 17:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11216243202A	08/04/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-098-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355058
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.2		0.97
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.97
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.97
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.97
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.97
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.97
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.97
06192	2-Butanone	78-93-3	1.3	U	1.3	8.2		0.97
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.97
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.97
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.97
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.97
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.97
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.97
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.97
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.97
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.97
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.97
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.2		0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.97
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.97
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.97
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.97
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.97
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.97
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.97
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.97
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.97
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.97
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.97
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.97
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.97
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.97
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.97
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.97
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.97
06192	Freon 133a	75-88-7	0.51	U	0.51	5.2		0.97
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.97
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.97
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.97
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.97
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.97
06192	Methylene Chloride	75-09-2	3.1	J	0.25	4.1		0.97
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.97

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Sample Description: SL-098-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355058
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.97
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.97
06192	Toluene	108-88-3	0.12	J	0.08	4.1		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.97
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.97
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.97
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.97
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.97
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.97
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.97
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.97
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.97
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		21.63
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1

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Sample Description: SL-098-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355058
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	350		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.8		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.8		5
10138	Anthracene	120-12-7	1.8	U	1.8	8.8		5
10138	Benzo(a)anthracene	56-55-3	3.5	U	3.5	8.8		5
10138	Benzo(a)pyrene	50-32-8	5.4	J	3.5	8.8		5
10138	Benzo(b)fluoranthene	205-99-2	6.7	J	3.5	8.8		5
10138	Benzo(g,h,i)perylene	191-24-2	4.9	J	3.5	8.8		5
10138	Benzo(k)fluoranthene	207-08-9	5.6	J	3.5	8.8		5
10138	Chrysene	218-01-9	5.7	J	1.8	8.8		5
10138	Dibenz(a,h)anthracene	53-70-3	3.5	U	3.5	8.8		5
10138	Fluoranthene	206-44-0	4.1	J	3.5	8.8		5
10138	Fluorene	86-73-7	3.5	U	3.5	8.8		5

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-098-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355058
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.5	U	3.5	8.8		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.8		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.8		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.8		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.8		5
10138	Di-n-octylphthalate	117-84-0	60	J	32	95		5
10138	Phenanthrene	85-01-8	3.5	U	3.5	8.8		5
10138	Pyrene	129-00-0	4.4	J	3.5	8.8		5

Reporting limits were raised due to interference from the sample matrix.

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		23.28
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	3.4	J	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	1.7	J	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-098-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355058
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	0.65	J	0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,600		6.33	20.9		1
07914	Boron	7440-42-8	0.377	U	0.377	5.23		1
01650	Calcium	7440-70-2	7,920		2.62	20.9		1
01654	Iron	7439-89-6	19,800		2.73	20.9		1
01656	Lithium	7439-93-2	25.0		0.65	2.1		1
01657	Magnesium	7439-95-4	5,690		0.461	10.5		1
06958	Manganese	7439-96-5	272		0.0377	0.523		1
10145	Phosphorus	7723-14-0	401		0.366	10.5		1
01662	Potassium	7440-09-7	2,810		11.8	52.3		1
01667	Sodium	7440-23-5	238		6.23	105		1
07968	Strontium	7440-24-6	24.6		0.0262	0.523		1
06969	Tin	7440-31-5	0.489	J	0.335	10.5		1
06970	Titanium	7440-32-6	991		0.0743	1.05		1
10146	Zirconium	7440-67-7	2.16	J	0.481	5.23		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.170	J	0.0752	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.12		0.0813	0.407		2
06126	Barium	7440-39-3	93.4		0.108	0.407		2
06127	Beryllium	7440-41-7	0.533		0.0163	0.102		2
06128	Cadmium	7440-43-9	0.196		0.0447	0.102		2
06131	Chromium	7440-47-3	20.4		0.122	0.407		2
06132	Cobalt	7440-48-4	6.76		0.0203	0.102		2
06133	Copper	7440-50-8	11.1		0.0813	0.407		2
06135	Lead	7439-92-1	6.83		0.0104	0.203		2
06138	Molybdenum	7439-98-7	0.684		0.0508	0.102		2
06139	Nickel	7440-02-0	14.0		0.102	0.407		2
06141	Selenium	7782-49-2	0.158	J	0.0590	0.407		2
06142	Silver	7440-22-4	0.0373	J	0.0144	0.102		2
06145	Thallium	7440-28-0	0.295		0.0305	0.102		2
06148	Vanadium	7440-62-2	37.9		0.0224	0.102		2

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Sample Description: SL-098-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355058
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06149	Zinc	7440-66-6	74.3	0.569	3.05		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0257 J	0.0070	0.0990		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1	0.86	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5 U	9.5	31.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.97 J	0.21	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.06	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-098-SA6-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B112082AA	07/27/2011 23:47	Kristen D Pelliccia	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112082AA	07/27/2011 15:19	Jason M Long	21.63
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201120725019	07/26/2011 12:18	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201120725019	07/26/2011 12:31	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201120725019	07/26/2011 12:31	Larry E Bevins	n.a.

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Sample Description: SL-098-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355058
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201120725019	07/26/2011 12:19	Larry E Bevins	n.a.
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLC026	08/16/2011 09:50	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLD026	08/10/2011 00:50	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLD026	08/04/2011 06:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLC026	08/05/2011 06:15	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11209A34A	07/28/2011 10:54	Marie D John	23.28
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120725019	07/26/2011 12:18	Larry E Bevins	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112160013A	08/06/2011 05:57	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112160013A	08/04/2011 18:00	Sally L Appleyard	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112090042A	07/30/2011 04:02	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112080004A	07/27/2011 17:56	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112160030A	08/06/2011 10:08	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112160029A	08/07/2011 05:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112160029A	08/05/2011 06:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112160030A	08/05/2011 06:00	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112090042A	07/29/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112080004A	07/27/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112105708004	08/03/2011 06:25	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112105708004	08/03/2011 06:25	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112105708004	08/03/2011 06:25	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112105708004	08/03/2011 06:25	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112105708004	08/03/2011 06:25	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112105708004	08/03/2011 06:25	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112105708004	08/03/2011 06:25	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112105708004	08/03/2011 06:25	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112105708004	08/03/2011 06:25	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112105708004	08/03/2011 06:25	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112105708004	08/03/2011 06:25	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112105708004	08/03/2011 06:25	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112105708004	08/03/2011 06:25	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112105708004	08/03/2011 06:25	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112101026003A	08/02/2011 13:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112101026003A	08/02/2011 13:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112101026003D	08/02/2011 13:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112101026003A	08/02/2011 13:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112101026003A	08/02/2011 13:03	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112101026003A	08/02/2011 13:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112101026003A	08/02/2011 13:03	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-098-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355058
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	112101026003A	08/02/2011 13:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112101026003A	08/02/2011 13:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112101026003C	08/02/2011 13:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112101026003A	08/02/2011 13:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112101026003B	08/02/2011 13:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112101026003A	08/02/2011 13:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112101026003A	08/02/2011 13:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112101026003A	08/02/2011 13:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112101026003A	08/02/2011 13:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112105711004	08/01/2011 10:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112105708004	07/31/2011 23:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112101026003	07/31/2011 23:21	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112105711004	08/01/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11215621201B	08/03/2011 23:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284202B	08/05/2011 13:52	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11216243202A	08/10/2011 09:46	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11215621201B	08/03/2011 08:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284202B	08/03/2011 17:45	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039404B	08/02/2011 17:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11216243202A	08/04/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401B	07/28/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-098-SA6-SB-2.0-3.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355059
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	140	6.8	8.1		0.96
06192	Benzene	71-43-2	20	0.10	4.1		0.96
06192	Bromobenzene	108-86-1	18	0.13	4.1		0.96
06192	Bromochloromethane	74-97-5	19	0.33	4.1		0.96
06192	Bromodichloromethane	75-27-4	19	0.08	4.1		0.96
06192	Bromoform	75-25-2	17	0.40	4.1		0.96
06192	Bromomethane	74-83-9	17	0.25	4.1		0.96
06192	2-Butanone	78-93-3	130	1.2	8.1		0.96
06192	n-Butylbenzene	104-51-8	20	0.12	4.1		0.96
06192	sec-Butylbenzene	135-98-8	20	0.06	4.1		0.96
06192	tert-Butylbenzene	98-06-6	19	0.16	4.1		0.96
06192	Carbon Tetrachloride	56-23-5	20	0.14	4.1		0.96
06192	Chlorobenzene	108-90-7	19	0.11	4.1		0.96
06192	Chloroethane	75-00-3	16	0.13	4.1		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	19	0.30	4.1		0.96
06192	Chloroform	67-66-3	20	0.12	4.1		0.96
06192	Chloromethane	74-87-3	20	0.33	4.1		0.96
06192	2-Chlorotoluene	95-49-8	19	0.14	4.1		0.96
06192	4-Chlorotoluene	106-43-4	19	0.14	4.1		0.96
06192	Chlorotrifluoroethene	79-38-9	19	0.50	5.0		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	16	0.71	4.1		0.96
06192	Dibromochloromethane	124-48-1	18	0.20	4.1		0.96
06192	1,2-Dibromoethane	106-93-4	18	0.17	4.1		0.96
06192	Dibromomethane	74-95-3	18	0.24	4.1		0.96
06192	1,2-Dichlorobenzene	95-50-1	19	0.09	4.1		0.96
06192	1,3-Dichlorobenzene	541-73-1	18	0.12	4.1		0.96
06192	1,4-Dichlorobenzene	106-46-7	19	0.16	4.1		0.96
06192	Dichlorodifluoromethane	75-71-8	21	0.12	4.1		0.96
06192	1,1-Dichloroethane	75-34-3	20	0.10	4.1		0.96
06192	1,2-Dichloroethane	107-06-2	20	0.15	4.1		0.96
06192	1,1-Dichloroethene	75-35-4	23	0.40	4.1		0.96
06192	cis-1,2-Dichloroethene	156-59-2	20	0.19	4.1		0.96
06192	trans-1,2-Dichloroethene	156-60-5	21	0.12	4.1		0.96
06192	1,2-Dichloropropane	78-87-5	19	0.17	4.1		0.96
06192	1,3-Dichloropropane	142-28-9	19	0.08	4.1		0.96
06192	2,2-Dichloropropane	594-20-7	20	0.17	4.1		0.96
06192	1,1-Dichloropropene	563-58-6	20	0.13	4.1		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	18	0.16	4.1		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	17	0.17	4.1		0.96
06192	Ethylbenzene	100-41-4	20	0.06	4.1		0.96
06192	Freon 113	76-13-1	25	0.11	4.1		0.96
06192	Freon 133a	75-88-7	24	0.50	5.0		0.95
06192	Hexachlorobutadiene	87-68-3	17	0.14	4.1		0.96
06192	2-Hexanone	591-78-6	81	1.6	8.1		0.96
06192	Isopropylbenzene	98-82-8	19	0.06	4.1		0.96
06192	p-Isopropyltoluene	99-87-6	19	0.11	4.1		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	18	0.21	4.1		0.96
06192	4-Methyl-2-pentanone	108-10-1	93	0.40	8.1		0.96
06192	Methylene Chloride	75-09-2	24	0.24	4.1		0.96
06192	n-Propylbenzene	103-65-1	20	0.07	4.1		0.96

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-098-SA6-SB-2.0-3.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355059
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	19		0.10	4.1		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	19		0.11	4.1		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	17		0.23	4.1		0.96
06192	Tetrachloroethene	127-18-4	20		0.20	4.1		0.96
06192	Toluene	108-88-3	20		0.08	4.1		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	17		0.14	4.1		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	17		0.18	4.1		0.96
06192	1,1,1-Trichloroethane	71-55-6	20		0.20	4.1		0.96
06192	1,1,2-Trichloroethane	79-00-5	19		0.27	4.1		0.96
06192	Trichloroethene	79-01-6	20		0.15	4.1		0.96
06192	Trichlorofluoromethane	75-69-4	21		0.29	4.1		0.96
06192	1,2,3-Trichloropropane	96-18-4	17		0.33	4.1		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	19		0.40	4.1		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	19		0.10	4.1		0.96
06192	Vinyl Chloride	75-01-4	20		0.20	4.1		0.96
06192	m+p-Xylene	179601-23-1	39		0.17	4.1		0.96
06192	o-Xylene	95-47-6	19		0.17	4.1		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	110		5.1	15		24.18
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,400		18	180		1
04688	Acenaphthylene	208-96-8	1,500		18	180		1
04688	Aniline	62-53-3	1,100		180	530		1
04688	Anthracene	120-12-7	1,500		18	180		1
04688	Benzidine	92-87-5	2,300	J	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	1,400		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,400		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,600		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,400		18	180		1
04688	Benzoic acid	65-85-0	870		180	530		1
04688	Benzyl alcohol	100-51-6	1,300		180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	1,600		18	180		1
04688	Butylbenzylphthalate	85-68-7	1,500		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,500		18	180		1
04688	Carbazole	86-74-8	1,400		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,300		35	180		1
04688	4-Chloroaniline	106-47-8	780		70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,400		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,300		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,300		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,400		18	180		1
04688	2-Chlorophenol	95-57-8	1,400		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,400		35	180		1
04688	Chrysene	218-01-9	1,400		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		18	180		1
04688	Dibenzofuran	132-64-9	1,400		18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-098-SA6-SB-2.0-3.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355059
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,300	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,300	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,300	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100	110	350		1
04688	2,4-Dichlorophenol	120-83-2	1,400	18	180		1
04688	Diethylphthalate	84-66-2	1,400	18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,400	35	180		1
04688	3,5-Dimethylphenol	108-68-9	1,500	35	180		1
04688	Dimethylphthalate	131-11-3	1,400	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,100	180	530		1
04688	2,4-Dinitrophenol	51-28-5	1,400	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,400	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,500	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,600	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,500	18	350		1
04688	Fluoranthene	206-44-0	1,500	18	180		1
04688	Fluorene	86-73-7	1,400	18	180		1
04688	Hexachlorobenzene	118-74-1	1,500	18	180		1
04688	Hexachlorobutadiene	87-68-3	1,400	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	2,500	180	530		1
04688	Hexachloroethane	67-72-1	1,300	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600	18	180		1
04688	Isophorone	78-59-1	1,400	18	180		1
04688	1-Methylnaphthalene	90-12-0	1,400	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,400	18	180		1
04688	2-Methylphenol	95-48-7	1,400	35	180		1
04688	4-Methylphenol	106-44-5	1,400	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,400	18	180		1
04688	2-Nitroaniline	88-74-4	1,400	18	180		1
04688	3-Nitroaniline	99-09-2	1,300	35	180		1
04688	4-Nitroaniline	100-01-6	1,000	70	180		1
04688	Nitrobenzene	98-95-3	1,400	18	180		1
04688	2-Nitrophenol	88-75-5	1,400	18	180		1
04688	4-Nitrophenol	100-02-7	1,300	180	530		1
04688	N-Nitrosodimethylamine	62-75-9	1,400	35	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,300	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,500	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,500	18	180		1
04688	Pentachlorophenol	87-86-5	1,100	180	530		1
04688	Phenanthrene	85-01-8	1,500	18	180		1
04688	Phenol	108-95-2	1,300	18	180		1
04688	Pyrene	129-00-0	1,500	18	180		1
04688	Tetralin	119-64-2	980	180	180		1

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Sample Description: SL-098-SA6-SB-2.0-3.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355059
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	1,400		18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,400		35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,400		35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	34		3.5	8.8		5
10138	Acenaphthylene	208-96-8	32		1.8	8.8		5
10138	Anthracene	120-12-7	32		1.8	8.8		5
10138	Benzo(a)anthracene	56-55-3	37		3.5	8.8		5
10138	Benzo(a)pyrene	50-32-8	29		3.5	8.8		5
10138	Benzo(b)fluoranthene	205-99-2	32		3.5	8.8		5
10138	Benzo(g,h,i)perylene	191-24-2	18		3.5	8.8		5
10138	Benzo(k)fluoranthene	207-08-9	29		3.5	8.8		5
10138	Butylbenzylphthalate	85-68-7	40	J	32	95		5
10138	Di-n-butylphthalate	84-74-2	42	J	32	95		5
10138	Chrysene	218-01-9	36		1.8	8.8		5
10138	Dibenz(a,h)anthracene	53-70-3	20		3.5	8.8		5
10138	Diethylphthalate	84-66-2	33	J	32	95		5
10138	Dimethylphthalate	131-11-3	35	J	32	95		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	43	J	32	95		5
10138	Fluoranthene	206-44-0	36		3.5	8.8		5
10138	Fluorene	86-73-7	33		3.5	8.8		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	20		3.5	8.8		5
10138	1-Methylnaphthalene	90-12-0	31		3.5	8.8		5
10138	2-Methylnaphthalene	91-57-6	30		3.5	8.8		5
10138	Naphthalene	91-20-3	32		3.5	8.8		5
10138	N-Nitrosodimethylamine	62-75-9	31		3.5	8.8		5
10138	Di-n-octylphthalate	117-84-0	82	J	32	95		5
10138	Phenanthrene	85-01-8	32		3.5	8.8		5
10138	Pyrene	129-00-0	34		3.5	8.8		5
	Reporting limits were raised due to interference from the sample matrix.							
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	7.3		0.2	1		22.56
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	2.9	J	1.1	3.5		1
10225	PCB-1016	12674-11-2	15		0.35	1.8		1

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Sample Description: SL-098-SA6-SB-2.0-3.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355059
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	6.2		0.35	1.8		1
10225	PCB-1260	11096-82-5	15		0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,500		110	530		1
10501	Isopropanol	67-63-0	2,600		110	530		1
10501	Methanol	67-56-1	2,400		110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	57		5.3	11		1
08283	Ethylene glycol	107-21-1	130		5.3	11		1
08283	Propylene glycol	57-55-6	140		5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.4	J	1.3	3.7		1
10318	o-Terphenyl	84-15-1	1.6	J	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	J	1.5	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.80	J	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	1.3		0.42	1.3		1
10199	EFH (C21-C30)	n.a.	2.2		0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	2.1		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.72	J	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,900		6.27	20.7		1
07914	Boron	7440-42-8	206		0.373	5.18		1
01650	Calcium	7440-70-2	8,710		2.59	20.7		1
01654	Iron	7439-89-6	20,100		2.70	20.7		1
01656	Lithium	7439-93-2	128		0.64	2.1		1
01657	Magnesium	7439-95-4	5,880		0.456	10.4		1
06958	Manganese	7439-96-5	329		0.0373	0.518		1
10145	Phosphorus	7723-14-0	484		0.363	10.4		1
01662	Potassium	7440-09-7	3,920		11.7	51.8		1
01667	Sodium	7440-23-5	1,230		6.17	104		1
07968	Strontium	7440-24-6	123		0.0259	0.518		1
06969	Tin	7440-31-5	360		0.332	10.4		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-098-SA6-SB-2.0-3.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355059
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06970	Titanium	7440-32-6	1,400	0.0736	1.04		1
10146	Zirconium	7440-67-7	103	0.477	5.18		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.650	0.0767	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.17	0.0829	0.415		2
06126	Barium	7440-39-3	116	0.110	0.415		2
06127	Beryllium	7440-41-7	1.58	0.0166	0.104		2
06128	Cadmium	7440-43-9	1.59	0.0456	0.104		2
06131	Chromium	7440-47-3	33.5	0.124	0.415		2
06132	Cobalt	7440-48-4	71.4	0.0207	0.104		2
06133	Copper	7440-50-8	25.2	0.0829	0.415		2
06135	Lead	7439-92-1	11.7	0.0106	0.207		2
06138	Molybdenum	7439-98-7	14.2	0.0518	0.104		2
06139	Nickel	7440-02-0	28.6	0.104	0.415		2
06141	Selenium	7782-49-2	2.78	0.0601	0.415		2
06142	Silver	7440-22-4	13.4	0.0147	0.104		2
06145	Thallium	7440-28-0	0.845	0.0311	0.104		2
06148	Vanadium	7440-62-2	52.5	0.0228	0.104		2
06149	Zinc	7440-66-6	94.3	0.580	3.11		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.193	0.0071	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	12.9	0.86	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	526	9.5	31.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	39.8	1.1	5.3		5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	5.4	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-098-SA6-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-098-SA6-SB-2.0-3.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355059
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B112082AA	07/28/2011 00:09	Kristen D Pelliccia	0.96
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B112082AA	07/28/2011 00:54	Kristen D Pelliccia	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112082AA	07/27/2011 15:39	Jason M Long	24.18
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201120725019	07/26/2011 12:21	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201120725019	07/26/2011 12:31	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201120725019	07/26/2011 12:31	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201120725019	07/26/2011 12:22	Larry E Bevins	n.a.
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLC026	08/15/2011 19:46	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLD026	08/10/2011 01:23	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLD026	08/04/2011 06:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLC026	08/05/2011 06:15	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11209A34A	07/28/2011 11:31	Marie D John	22.56
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120725019	07/26/2011 12:21	Larry E Bevins	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112160013A	08/06/2011 07:29	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112160013A	08/04/2011 18:00	Sally L Appleyard	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112090042A	07/30/2011 04:17	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112080004A	07/27/2011 18:35	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112160030A	08/06/2011 10:53	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112160029A	08/07/2011 04:38	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112160029A	08/05/2011 06:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112160030A	08/05/2011 06:00	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112090042A	07/29/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112080004A	07/27/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112105708004	08/03/2011 06:38	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112105708004	08/03/2011 06:38	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112105708004	08/03/2011 06:38	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112105708004	08/03/2011 06:38	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112105708004	08/03/2011 06:38	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112105708004	08/03/2011 06:38	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112105708004	08/03/2011 06:38	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112105708004	08/03/2011 06:38	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112105708004	08/03/2011 06:38	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112105708004	08/03/2011 06:38	Joanne M Gates	1

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Sample Description: SL-098-SA6-SB-2.0-3.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355059
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112105708004	08/03/2011 06:38	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112105708004	08/03/2011 06:38	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112105708004	08/03/2011 06:38	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112105708004	08/03/2011 06:38	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112101026003A	08/02/2011 13:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112101026003A	08/02/2011 13:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112101026003D	08/02/2011 13:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112101026003A	08/02/2011 13:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112101026003A	08/02/2011 13:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112101026003A	08/02/2011 13:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112101026003A	08/02/2011 13:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112101026003A	08/02/2011 13:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112101026003A	08/02/2011 13:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112101026003C	08/02/2011 13:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112101026003A	08/02/2011 13:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112101026003B	08/02/2011 13:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112101026003A	08/02/2011 13:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112101026003A	08/02/2011 13:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112101026003A	08/02/2011 13:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112101026003A	08/02/2011 13:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112105711004	08/01/2011 10:14	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112105708004	07/31/2011 23:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112101026003	07/31/2011 23:21	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112105711004	08/01/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11215621201B	08/04/2011 00:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284202B	08/05/2011 15:01	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11216243202A	08/10/2011 09:54	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11215621201B	08/03/2011 08:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284202B	08/03/2011 17:45	Alex M Rittle	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11216243202A	08/04/2011 11:40	Yolunder Y Bunch	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401B	07/28/2011 20:37	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-098-SA6-SB-2.0-3.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355060
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	120	6.4	7.7		0.91
06192	Benzene	71-43-2	18	0.1	3.8		0.91
06192	Bromobenzene	108-86-1	16	0.12	3.8		0.91
06192	Bromochloromethane	74-97-5	16	0.32	3.8		0.91
06192	Bromodichloromethane	75-27-4	17	0.08	3.8		0.91
06192	Bromoform	75-25-2	15	0.38	3.8		0.91
06192	Bromomethane	74-83-9	14	0.24	3.8		0.91
06192	2-Butanone	78-93-3	110	1.2	7.7		0.91
06192	n-Butylbenzene	104-51-8	17	0.12	3.8		0.91
06192	sec-Butylbenzene	135-98-8	17	0.06	3.8		0.91
06192	tert-Butylbenzene	98-06-6	16	0.15	3.8		0.91
06192	Carbon Tetrachloride	56-23-5	19	0.13	3.8		0.91
06192	Chlorobenzene	108-90-7	17	0.11	3.8		0.91
06192	Chloroethane	75-00-3	14	0.12	3.8		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	16	0.29	3.8		0.91
06192	Chloroform	67-66-3	18	0.12	3.8		0.91
06192	Chloromethane	74-87-3	17	0.32	3.8		0.91
06192	2-Chlorotoluene	95-49-8	17	0.13	3.8		0.91
06192	4-Chlorotoluene	106-43-4	17	0.13	3.8		0.91
06192	Chlorotrifluoroethene	79-38-9	16	0.46	4.6		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	14	0.67	3.8		0.91
06192	Dibromochloromethane	124-48-1	16	0.19	3.8		0.91
06192	1,2-Dibromoethane	106-93-4	16	0.16	3.8		0.91
06192	Dibromomethane	74-95-3	16	0.23	3.8		0.91
06192	1,2-Dichlorobenzene	95-50-1	16	0.09	3.8		0.91
06192	1,3-Dichlorobenzene	541-73-1	16	0.12	3.8		0.91
06192	1,4-Dichlorobenzene	106-46-7	16	0.15	3.8		0.91
06192	Dichlorodifluoromethane	75-71-8	18	0.12	3.8		0.91
06192	1,1-Dichloroethane	75-34-3	18	0.1	3.8		0.91
06192	1,2-Dichloroethane	107-06-2	17	0.14	3.8		0.91
06192	1,1-Dichloroethene	75-35-4	21	0.37	3.8		0.91
06192	cis-1,2-Dichloroethene	156-59-2	17	0.18	3.8		0.91
06192	trans-1,2-Dichloroethene	156-60-5	18	0.12	3.8		0.91
06192	1,2-Dichloropropane	78-87-5	17	0.16	3.8		0.91
06192	1,3-Dichloropropane	142-28-9	16	0.08	3.8		0.91
06192	2,2-Dichloropropane	594-20-7	19	0.16	3.8		0.91
06192	1,1-Dichloropropene	563-58-6	19	0.12	3.8		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	16	0.15	3.8		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	16	0.16	3.8		0.91
06192	Ethylbenzene	100-41-4	17	0.06	3.8		0.91
06192	Freon 113	76-13-1	22	0.11	3.8		0.91
06192	Freon 133a	75-88-7	20	0.46	4.6		0.87
06192	Hexachlorobutadiene	87-68-3	14	0.13	3.8		0.91
06192	2-Hexanone	591-78-6	74	1.5	7.7		0.91
06192	Isopropylbenzene	98-82-8	17	0.06	3.8		0.91
06192	p-Isopropyltoluene	99-87-6	17	0.11	3.8		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	16	0.20	3.8		0.91
06192	4-Methyl-2-pentanone	108-10-1	81	0.37	7.7		0.91
06192	Methylene Chloride	75-09-2	22	0.23	3.8		0.91
06192	n-Propylbenzene	103-65-1	18	0.07	3.8		0.91

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-098-SA6-SB-2.0-3.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355060
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	17		0.1	3.8		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	16		0.11	3.8		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	15		0.22	3.8		0.91
06192	Tetrachloroethene	127-18-4	18		0.19	3.8		0.91
06192	Toluene	108-88-3	18		0.08	3.8		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	14		0.13	3.8		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	14		0.17	3.8		0.91
06192	1,1,1-Trichloroethane	71-55-6	18		0.19	3.8		0.91
06192	1,1,2-Trichloroethane	79-00-5	17		0.26	3.8		0.91
06192	Trichloroethene	79-01-6	18		0.14	3.8		0.91
06192	Trichlorofluoromethane	75-69-4	18		0.28	3.8		0.91
06192	1,2,3-Trichloropropane	96-18-4	15		0.32	3.8		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	17		0.38	3.8		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	17		0.1	3.8		0.91
06192	Vinyl Chloride	75-01-4	17		0.19	3.8		0.91
06192	m+p-Xylene	179601-23-1	35		0.16	3.8		0.91
06192	o-Xylene	95-47-6	17		0.16	3.8		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	100		4.6	14		21.63
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,400		18	180		1
04688	Acenaphthylene	208-96-8	1,500		18	180		1
04688	Aniline	62-53-3	950		180	530		1
04688	Anthracene	120-12-7	1,500		18	180		1
04688	Benzidine	92-87-5	1,600	J	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	1,400		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,400		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,600		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,400		18	180		1
04688	Benzoic acid	65-85-0	890		180	530		1
04688	Benzyl alcohol	100-51-6	1,300		180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	1,600		18	180		1
04688	Butylbenzylphthalate	85-68-7	1,500		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,500		18	180		1
04688	Carbazole	86-74-8	1,400		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,400		35	180		1
04688	4-Chloroaniline	106-47-8	470		70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,400		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,400		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,400		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,400		18	180		1
04688	2-Chlorophenol	95-57-8	1,400		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,400		35	180		1
04688	Chrysene	218-01-9	1,400		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		18	180		1
04688	Dibenzofuran	132-64-9	1,300		18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-098-SA6-SB-2.0-3.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355060
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,300	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,300	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,300	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100	110	350		1
04688	2,4-Dichlorophenol	120-83-2	1,400	18	180		1
04688	Diethylphthalate	84-66-2	1,400	18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,400	35	180		1
04688	3,5-Dimethylphenol	108-68-9	1,500	35	180		1
04688	Dimethylphthalate	131-11-3	1,400	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,100	180	530		1
04688	2,4-Dinitrophenol	51-28-5	1,300	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,300	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,500	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,600	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,500	18	350		1
04688	Fluoranthene	206-44-0	1,400	18	180		1
04688	Fluorene	86-73-7	1,400	18	180		1
04688	Hexachlorobenzene	118-74-1	1,500	18	180		1
04688	Hexachlorobutadiene	87-68-3	1,400	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	2,400	180	530		1
04688	Hexachloroethane	67-72-1	1,400	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600	18	180		1
04688	Isophorone	78-59-1	1,400	18	180		1
04688	1-Methylnaphthalene	90-12-0	1,400	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,400	18	180		1
04688	2-Methylphenol	95-48-7	1,400	35	180		1
04688	4-Methylphenol	106-44-5	1,300	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,400	18	180		1
04688	2-Nitroaniline	88-74-4	1,400	18	180		1
04688	3-Nitroaniline	99-09-2	1,300	35	180		1
04688	4-Nitroaniline	100-01-6	1,000	70	180		1
04688	Nitrobenzene	98-95-3	1,400	18	180		1
04688	2-Nitrophenol	88-75-5	1,400	18	180		1
04688	4-Nitrophenol	100-02-7	1,200	180	530		1
04688	N-Nitrosodimethylamine	62-75-9	1,400	35	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,300	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,500	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,500	18	180		1
04688	Pentachlorophenol	87-86-5	1,100	180	530		1
04688	Phenanthrene	85-01-8	1,400	18	180		1
04688	Phenol	108-95-2	1,300	18	180		1
04688	Pyrene	129-00-0	1,400	18	180		1
04688	Tetralin	119-64-2	1,500	180	180		1

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Sample Description: SL-098-SA6-SB-2.0-3.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355060
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	1,400		18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,400		35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,400		35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	25		3.5	8.8		5
10138	Acenaphthylene	208-96-8	24		1.8	8.8		5
10138	Anthracene	120-12-7	21		1.8	8.8		5
10138	Benzo(a)anthracene	56-55-3	26		3.5	8.8		5
10138	Benzo(a)pyrene	50-32-8	19		3.5	8.8		5
10138	Benzo(b)fluoranthene	205-99-2	24		3.5	8.8		5
10138	Benzo(g,h,i)perylene	191-24-2	14		3.5	8.8		5
10138	Benzo(k)fluoranthene	207-08-9	23		3.5	8.8		5
10138	Butylbenzylphthalate	85-68-7	32	U	32	95		5
10138	Di-n-butylphthalate	84-74-2	32	U	32	95		5
10138	Chrysene	218-01-9	26		1.8	8.8		5
10138	Dibenz(a,h)anthracene	53-70-3	15		3.5	8.8		5
10138	Diethylphthalate	84-66-2	32	U	32	95		5
10138	Dimethylphthalate	131-11-3	32	U	32	95		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	32	U	32	95		5
10138	Fluoranthene	206-44-0	28		3.5	8.8		5
10138	Fluorene	86-73-7	25		3.5	8.8		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	15		3.5	8.8		5
10138	1-Methylnaphthalene	90-12-0	24		3.5	8.8		5
10138	2-Methylnaphthalene	91-57-6	24		3.5	8.8		5
10138	Naphthalene	91-20-3	25		3.5	8.8		5
10138	N-Nitrosodimethylamine	62-75-9	24		3.5	8.8		5
10138	Di-n-octylphthalate	117-84-0	72	J	32	95		5
10138	Phenanthrene	85-01-8	26		3.5	8.8		5
10138	Pyrene	129-00-0	25		3.5	8.8		5

Reporting limits were raised due to interference from the sample matrix.

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	8.0		0.2	1.0		23.63
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	8.6		1.1	3.5		1
10225	PCB-1016	12674-11-2	16		0.35	1.8		1

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Sample Description: SL-098-SA6-SB-2.0-3.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355060
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	14		0.35	1.8		1
10225	PCB-1260	11096-82-5	17		0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,700		110	530		1
10501	Isopropanol	67-63-0	2,200		110	530		1
10501	Methanol	67-56-1	2,900		110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	54		5.3	11		1
08283	Ethylene glycol	107-21-1	130		5.3	11		1
08283	Propylene glycol	57-55-6	150		5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.4	J	1.3	3.7		1
10318	o-Terphenyl	84-15-1	1.7	J	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	J	1.5	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.91	J	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	1.8		0.42	1.3		1
10199	EFH (C21-C30)	n.a.	11		0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	33		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.89	J	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,200		6.21	20.5		1
07914	Boron	7440-42-8	202		0.369	5.13		1
01650	Calcium	7440-70-2	8,760		2.57	20.5		1
01654	Iron	7439-89-6	20,400		2.68	20.5		1
01656	Lithium	7439-93-2	126		0.64	2.1		1
01657	Magnesium	7439-95-4	5,730		0.452	10.3		1
06958	Manganese	7439-96-5	322		0.0369	0.513		1
10145	Phosphorus	7723-14-0	502		0.359	10.3		1
01662	Potassium	7440-09-7	3,900		11.6	51.3		1
01667	Sodium	7440-23-5	1,220		6.11	103		1
07968	Strontium	7440-24-6	123		0.0257	0.513		1
06969	Tin	7440-31-5	358		0.328	10.3		1

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Sample Description: SL-098-SA6-SB-2.0-3.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355060
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06970	Titanium	7440-32-6	1,330	0.0729	1.03		1
10146	Zirconium	7440-67-7	102	0.472	5.13		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.534	0.0767	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.92	0.0829	0.415		2
06126	Barium	7440-39-3	99.5	0.110	0.415		2
06127	Beryllium	7440-41-7	1.29	0.0166	0.104		2
06128	Cadmium	7440-43-9	1.28	0.0456	0.104		2
06131	Chromium	7440-47-3	29.5	0.124	0.415		2
06132	Cobalt	7440-48-4	57.6	0.0207	0.104		2
06133	Copper	7440-50-8	22.5	0.0829	0.415		2
06135	Lead	7439-92-1	10.4	0.0106	0.207		2
06138	Molybdenum	7439-98-7	11.7	0.0518	0.104		2
06139	Nickel	7440-02-0	23.9	0.104	0.415		2
06141	Selenium	7782-49-2	2.38	0.0601	0.415		2
06142	Silver	7440-22-4	11.1	0.0147	0.104		2
06145	Thallium	7440-28-0	0.704	0.0311	0.104		2
06148	Vanadium	7440-62-2	47.6	0.0228	0.104		2
06149	Zinc	7440-66-6	84.6	0.580	3.11		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.185	0.0074	0.105		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	5.4	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-098-SA6-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B112082AA	07/28/2011 00:32	Kristen D Pelliccia	0.91
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B112082AA	07/28/2011 01:17	Kristen D Pelliccia	0.87

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Sample Description: SL-098-SA6-SB-2.0-3.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355060
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112082AB	07/29/2011 14:53	Jason M Long	21.63
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201120725019	07/26/2011 12:25	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201120725019	07/26/2011 12:31	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201120725019	07/26/2011 12:31	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201120725019	07/26/2011 12:25	Larry E Bevins	n.a.
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLC026	08/15/2011 20:11	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLD026	08/10/2011 01:56	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLD026	08/04/2011 06:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLC026	08/05/2011 06:15	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11209A34A	07/28/2011 12:07	Marie D John	23.63
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120725019	07/26/2011 12:24	Larry E Bevins	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112160013A	08/06/2011 07:48	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112160013A	08/04/2011 18:00	Sally L Appleyard	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112090042A	07/30/2011 04:32	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112080004A	07/27/2011 18:47	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112160030A	08/06/2011 11:38	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112160029A	08/07/2011 11:04	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112160029A	08/05/2011 06:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112160030A	08/05/2011 06:00	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112090042A	07/29/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112080004A	07/27/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112105708004	08/03/2011 06:43	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112105708004	08/03/2011 06:43	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112105708004	08/03/2011 06:43	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112105708004	08/03/2011 06:43	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112105708004	08/03/2011 06:43	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112105708004	08/03/2011 06:43	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112105708004	08/03/2011 06:43	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112105708004	08/03/2011 06:43	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112105708004	08/03/2011 06:43	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112105708004	08/03/2011 06:43	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112105708004	08/03/2011 06:43	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112105708004	08/03/2011 06:43	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112105708004	08/03/2011 06:43	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112105708004	08/03/2011 06:43	Joanne M Gates	1

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Analysis Report

Sample Description: SL-098-SA6-SB-2.0-3.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355060
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112101026003A	08/02/2011 13:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112101026003A	08/02/2011 13:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112101026003D	08/02/2011 13:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112101026003A	08/02/2011 13:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112101026003A	08/02/2011 13:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112101026003A	08/02/2011 13:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112101026003A	08/02/2011 13:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112101026003A	08/02/2011 13:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112101026003A	08/02/2011 13:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112101026003C	08/02/2011 13:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112101026003A	08/02/2011 13:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112101026003B	08/02/2011 13:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112101026003A	08/02/2011 13:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112101026003A	08/02/2011 13:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112101026003A	08/02/2011 13:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112101026003A	08/02/2011 13:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112105711004	08/01/2011 10:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112105708004	07/31/2011 23:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112101026003	07/31/2011 23:21	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112105711004	08/01/2011 01:15	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401B	07/28/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-098-SA6-SB-2.0-3.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355061
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,500		6.33	20.9		1
07914	Boron	7440-42-8	0.745	J	0.377	5.23		1
01650	Calcium	7440-70-2	9,810		2.62	20.9		1
01654	Iron	7439-89-6	21,500		2.73	20.9		1
01656	Lithium	7439-93-2	24.9		0.65	2.1		1
01657	Magnesium	7439-95-4	5,770		0.461	10.5		1
06958	Manganese	7439-96-5	291		0.0377	0.523		1
10145	Phosphorus	7723-14-0	421		0.366	10.5		1
01662	Potassium	7440-09-7	2,910		11.8	52.3		1
01667	Sodium	7440-23-5	245		6.23	105		1
07968	Strontium	7440-24-6	26.4		0.0262	0.523		1
06969	Tin	7440-31-5	2.39	J	0.335	10.5		1
06970	Titanium	7440-32-6	1,170		0.0743	1.05		1
10146	Zirconium	7440-67-7	3.14	J	0.481	5.23		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.112	J	0.0767	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.47		0.0829	0.415		2
06126	Barium	7440-39-3	98.9		0.110	0.415		2
06127	Beryllium	7440-41-7	0.589		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.167		0.0456	0.104		2
06131	Chromium	7440-47-3	21.8		0.124	0.415		2
06132	Cobalt	7440-48-4	7.39		0.0207	0.104		2
06133	Copper	7440-50-8	11.5		0.0829	0.415		2
06135	Lead	7439-92-1	6.53		0.0106	0.207		2
06138	Molybdenum	7439-98-7	0.770		0.0518	0.104		2
06139	Nickel	7440-02-0	14.0		0.104	0.415		2
06141	Selenium	7782-49-2	0.141	J	0.0601	0.415		2
06142	Silver	7440-22-4	0.0324	J	0.0147	0.104		2
06145	Thallium	7440-28-0	0.294		0.0311	0.104		2
06148	Vanadium	7440-62-2	40.2		0.0228	0.104		2
06149	Zinc	7440-66-6	76.0		0.580	3.11		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0159	J	0.0072	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2		0.84	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-098-SA6-SB-2.0-3.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355061
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.10	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11626	28a Moisture Content by 160.3	n.a.	5.7	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	5.4	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112105708004	08/03/2011 06:34	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112105708004	08/03/2011 06:34	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112105708004	08/03/2011 06:34	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112105708004	08/03/2011 06:34	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112105708004	08/03/2011 06:34	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112105708004	08/03/2011 06:34	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112105708004	08/03/2011 06:34	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112105708004	08/03/2011 06:34	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112105708004	08/03/2011 06:34	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112105708004	08/03/2011 06:34	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112105708004	08/03/2011 06:34	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112105708004	08/03/2011 06:34	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112105708004	08/03/2011 06:34	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112105708004	08/03/2011 06:34	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112101026003A	08/02/2011 13:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112101026003A	08/02/2011 13:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112101026003D	08/02/2011 13:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112101026003A	08/02/2011 13:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112101026003A	08/02/2011 13:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112101026003A	08/02/2011 13:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112101026003A	08/02/2011 13:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112101026003A	08/02/2011 13:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112101026003A	08/02/2011 13:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112101026003C	08/02/2011 13:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112101026003A	08/02/2011 13:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112101026003B	08/02/2011 13:09	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
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Sample Description: SL-098-SA6-SB-2.0-3.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355061
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE208-12DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112101026003A	08/02/2011 13:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112101026003A	08/02/2011 13:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112101026003A	08/02/2011 13:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112101026003A	08/02/2011 13:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112105711004	08/01/2011 10:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112105708004	07/31/2011 23:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112101026003	07/31/2011 23:21	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112105711004	08/01/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11215621201B	08/04/2011 00:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284202B	08/05/2011 14:15	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11216243202A	08/10/2011 10:37	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11215621201B	08/03/2011 08:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284202B	08/03/2011 17:45	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039404B	08/02/2011 17:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11216243202A	08/04/2011 11:40	Yolunder Y Bunch	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11209162401B	07/28/2011 20:37	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401B	07/28/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-289-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-289-SA6-SB-3.5-4.5

LLI Sample # SW 6355062
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 08:30

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL289 SDG#: DE208-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	350		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-289-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-289-SA6-SB-3.5-4.5

LLI Sample # SW 6355062
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 08:30

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL289 SDG#: DE208-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.8		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.8		5
10138	Anthracene	120-12-7	1.8	U	1.8	8.8		5
10138	Benzo(a)anthracene	56-55-3	3.9	J	3.5	8.8		5
10138	Benzo(a)pyrene	50-32-8	7.2	J	3.5	8.8		5
10138	Benzo(b)fluoranthene	205-99-2	12		3.5	8.8		5
10138	Benzo(g,h,i)perylene	191-24-2	4.6	J	3.5	8.8		5
10138	Benzo(k)fluoranthene	207-08-9	4.6	J	3.5	8.8		5
10138	Chrysene	218-01-9	14		1.8	8.8		5
10138	Dibenz(a,h)anthracene	53-70-3	3.5	U	3.5	8.8		5
10138	Fluoranthene	206-44-0	3.5	U	3.5	8.8		5
10138	Fluorene	86-73-7	3.5	U	3.5	8.8		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.5	U	3.5	8.8		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.8		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.8		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.8		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.8		5
10138	Di-n-octylphthalate	117-84-0	64	J	32	95		5
10138	Phenanthrene	85-01-8	3.5	U	3.5	8.8		5
10138	Pyrene	129-00-0	4.4	J	3.5	8.8		5

Reporting limits were raised due to interference from the sample matrix.

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.99
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.3		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-289-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-289-SA6-SB-3.5-4.5

LLI Sample # SW 6355062
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 08:30

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL289 SDG#: DE208-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,700		6.38	21.1		1
07914	Boron	7440-42-8	1.45	J	0.379	5.27		1
01650	Calcium	7440-70-2	10,200		2.63	21.1		1
01654	Iron	7439-89-6	21,200		2.75	21.1		1
01656	Lithium	7439-93-2	26.9		0.65	2.1		1
01657	Magnesium	7439-95-4	6,040		0.464	10.5		1
06958	Manganese	7439-96-5	262		0.0379	0.527		1
10145	Phosphorus	7723-14-0	432		0.369	10.5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-289-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-289-SA6-SB-3.5-4.5

LLI Sample # SW 6355062
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 08:30

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL289 SDG#: DE208-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	3,030		11.9	52.7		1
01667	Sodium	7440-23-5	287		6.27	105		1
07968	Strontium	7440-24-6	26.9		0.0263	0.527		1
06969	Tin	7440-31-5	2.19	J	0.337	10.5		1
06970	Titanium	7440-32-6	1,130		0.0748	1.05		1
10146	Zirconium	7440-67-7	2.30	J	0.485	5.27		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.131	J	0.0750	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.02		0.0811	0.405		2
06126	Barium	7440-39-3	97.0		0.107	0.405		2
06127	Beryllium	7440-41-7	0.618		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.225		0.0446	0.101		2
06131	Chromium	7440-47-3	23.9		0.122	0.405		2
06132	Cobalt	7440-48-4	7.55		0.0203	0.101		2
06133	Copper	7440-50-8	11.5		0.0811	0.405		2
06135	Lead	7439-92-1	7.20		0.0103	0.203		2
06138	Molybdenum	7439-98-7	0.638		0.0507	0.101		2
06139	Nickel	7440-02-0	15.0		0.101	0.405		2
06141	Selenium	7782-49-2	0.132	J	0.0588	0.405		2
06142	Silver	7440-22-4	0.0402	J	0.0144	0.101		2
06145	Thallium	7440-28-0	0.277		0.0304	0.101		2
06148	Vanadium	7440-62-2	44.4		0.0223	0.101		2
06149	Zinc	7440-66-6	77.6		0.567	3.04		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0242	J	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.54		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.1		0.50	0.50		1

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Analysis Report

Sample Description: SL-289-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-289-SA6-SB-3.5-4.5

LLI Sample # SW 6355062
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 08:30

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL289 SDG#: DE208-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-289-SA6-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLC026	08/16/2011 14:00	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLD026	08/10/2011 21:08	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLD026	08/04/2011 06:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLC026	08/05/2011 06:15	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11209A34A	07/28/2011 12:44	Marie D John	23.99
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120725019	07/26/2011 12:30	Larry E Bevins	n.a.
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112200028A	08/10/2011 14:26	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112160013A	08/06/2011 08:07	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112160013A	08/04/2011 18:00	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112200028A	08/09/2011 09:30	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112090042A	07/30/2011 04:47	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112080004A	07/27/2011 18:09	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112160030A	08/06/2011 15:21	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112160029A	08/07/2011 04:14	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112160029A	08/05/2011 06:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112160030A	08/05/2011 06:00	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112090042A	07/29/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112080004A	07/27/2011 12:00	Dustin A Underkoffler	1

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Sample Description: SL-289-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-289-SA6-SB-3.5-4.5

LLI Sample # SW 6355062
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 08:30

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL289 SDG#: DE208-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112105708004	08/03/2011 07:54	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112105708004	08/03/2011 07:54	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112105708004	08/03/2011 07:54	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112105708004	08/03/2011 07:54	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112105708004	08/03/2011 07:54	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112105708004	08/03/2011 07:54	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112105708004	08/03/2011 07:54	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112105708004	08/03/2011 07:54	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112105708004	08/03/2011 07:54	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112105708004	08/03/2011 07:54	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112105708004	08/03/2011 07:54	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112105708004	08/03/2011 07:54	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112105708004	08/03/2011 07:54	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112105708004	08/03/2011 07:54	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112101026003A	08/02/2011 14:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112101026003A	08/02/2011 14:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112101026003D	08/02/2011 14:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112101026003A	08/02/2011 14:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112101026003A	08/02/2011 14:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112101026003A	08/02/2011 14:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112101026003A	08/02/2011 14:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112101026003A	08/02/2011 14:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112101026003A	08/02/2011 14:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112101026003C	08/02/2011 14:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112101026003A	08/02/2011 14:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112101026003B	08/02/2011 14:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112101026003A	08/02/2011 14:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112101026003A	08/02/2011 14:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112101026003A	08/02/2011 14:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112101026003A	08/02/2011 14:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112105711004	08/01/2011 10:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112105708004	07/31/2011 23:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112101026003	07/31/2011 23:21	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112105711004	08/01/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11215621201B	08/04/2011 00:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284202B	08/05/2011 15:47	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11216243202A	08/10/2011 10:51	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11215621201B	08/03/2011 08:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284202B	08/03/2011 17:45	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039404B	08/02/2011 17:45	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-289-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-289-SA6-SB-3.5-4.5

LLI Sample # SW 6355062
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 08:30

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL289 SDG#: DE208-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11216243202A	08/04/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401B	07/28/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: DUP07-SA6-QC-072511 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA6-QC-072511

LLI Sample # SW 6355063
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:00

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP07 SDG#: DE208-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.95
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.95
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.95
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.1		0.95
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.95
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.95
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.95
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.95
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.95
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.95
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.95
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.95
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.95
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.1		0.95
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.95
06192	Chloromethane	74-87-3	0.33	U	0.33	4.1		0.95
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.95
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.95
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.95
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.95
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.95
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.95
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.95
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.95
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.95
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.95
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.95
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.95
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.95
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.95
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.95
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.95
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.95
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.95
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.95
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.95
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1		0.95
06192	Methylene Chloride	75-09-2	2.7	J	0.24	4.1		0.95
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.95

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Sample Description: DUP07-SA6-QC-072511 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA6-QC-072511

LLI Sample # SW 6355063
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:00

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP07 SDG#: DE208-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.95
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.95
06192	Toluene	108-88-3	0.14	J	0.08	4.1		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1		0.95
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.95
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.1		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.1		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.95
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.95
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.95
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		23.54
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: DUP07-SA6-QC-072511 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA6-QC-072511

LLI Sample # SW 6355063
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:00

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP07 SDG#: DE208-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1

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Sample Description: DUP07-SA6-QC-072511 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA6-QC-072511

LLI Sample # SW 6355063
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:00

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP07 SDG#: DE208-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.54
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.3		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: DUP07-SA6-QC-072511 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA6-QC-072511

LLI Sample # SW 6355063
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:00

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP07 SDG#: DE208-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	1.5		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	3.1		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,400		6.26	20.7		1
07914	Boron	7440-42-8	0.372	U	0.372	5.17		1
01650	Calcium	7440-70-2	5,040		2.58	20.7		1
01654	Iron	7439-89-6	24,000		2.70	20.7		1
01656	Lithium	7439-93-2	28.6		0.64	2.1		1
01657	Magnesium	7439-95-4	6,090		0.455	10.3		1
06958	Manganese	7439-96-5	280		0.0372	0.517		1
10145	Phosphorus	7723-14-0	408		0.362	10.3		1
01662	Potassium	7440-09-7	2,840		11.7	51.7		1
01667	Sodium	7440-23-5	148		6.15	103		1
07968	Strontium	7440-24-6	14.9		0.0258	0.517		1
06969	Tin	7440-31-5	2.35	J	0.331	10.3		1
06970	Titanium	7440-32-6	1,210		0.0734	1.03		1
10146	Zirconium	7440-67-7	2.01	J	0.476	5.17		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.174	J	0.0765	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.88		0.0827	0.414		2
06126	Barium	7440-39-3	123		0.110	0.414		2
06127	Beryllium	7440-41-7	0.784		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.141		0.0455	0.103		2
06131	Chromium	7440-47-3	29.8		0.124	0.414		2
06132	Cobalt	7440-48-4	9.68		0.0207	0.103		2
06133	Copper	7440-50-8	12.7		0.0827	0.414		2
06135	Lead	7439-92-1	6.36		0.0105	0.207		2
06138	Molybdenum	7439-98-7	1.35		0.0517	0.103		2
06139	Nickel	7440-02-0	19.1		0.103	0.414		2
06141	Selenium	7782-49-2	0.107	J	0.0600	0.414		2
06142	Silver	7440-22-4	0.0319	J	0.0147	0.103		2
06145	Thallium	7440-28-0	0.388		0.0310	0.103		2
06148	Vanadium	7440-62-2	52.3		0.0227	0.103		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP07-SA6-QC-072511 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA6-QC-072511

LLI Sample # SW 6355063
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:00

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP07 SDG#: DE208-14FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06149	Zinc	7440-66-6	89.7	0.579	3.10		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074 U	0.0074	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.0	0.87	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6 U	9.6	31.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21 U	0.21	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.23	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B112082AA	07/28/2011 01:39	Kristen D Pelliccia	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112082AA	07/27/2011 14:59	Jason M Long	23.54
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201120725019	07/26/2011 12:28	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201120725019	07/26/2011 12:31	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201120725019	07/26/2011 12:31	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201120725019	07/26/2011 12:28	Larry E Bevins	n.a.

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Analysis Report

Sample Description: DUP07-SA6-QC-072511 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA6-QC-072511

LLI Sample # SW 6355063
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:00

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP07 SDG#: DE208-14FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLC026	08/16/2011 14:25	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11215SLD026	08/10/2011 21:40	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11215SLD026	08/04/2011 06:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLC026	08/05/2011 06:15	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11209A34A	07/28/2011 13:20	Marie D John	23.54
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120725019	07/26/2011 12:27	Larry E Bevins	n.a.
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112200028A	08/10/2011 14:32	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112160013A	08/06/2011 08:25	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112160013A	08/04/2011 18:00	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112200028A	08/09/2011 09:30	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112090042A	07/30/2011 05:02	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112080004A	07/27/2011 18:22	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112160030A	08/06/2011 09:24	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112160029A	08/07/2011 05:26	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112160029A	08/05/2011 06:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112160030A	08/05/2011 06:00	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112090042A	07/29/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112080004A	07/27/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112105708004	08/03/2011 07:59	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112105708004	08/03/2011 07:59	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112105708004	08/03/2011 07:59	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112105708004	08/03/2011 07:59	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112105708004	08/03/2011 07:59	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112105708004	08/03/2011 07:59	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112105708004	08/03/2011 07:59	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112105708004	08/03/2011 07:59	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112105708004	08/03/2011 07:59	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112105708004	08/03/2011 07:59	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112105708004	08/03/2011 07:59	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112105708004	08/03/2011 07:59	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112105708004	08/03/2011 07:59	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112105708004	08/03/2011 07:59	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112101026003A	08/02/2011 14:11	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112101026003A	08/02/2011 14:11	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112101026003D	08/02/2011 14:11	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112101026003A	08/02/2011 14:11	Choon Y Tian	2

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Sample Description: DUP07-SA6-QC-072511 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA6-QC-072511

LLI Sample # SW 6355063
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:00

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP07 SDG#: DE208-14FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112101026003A	08/02/2011 14:11	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112101026003A	08/02/2011 14:11	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112101026003A	08/02/2011 14:11	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112101026003A	08/02/2011 14:11	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112101026003A	08/02/2011 14:11	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112101026003C	08/02/2011 14:11	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112101026003A	08/02/2011 14:11	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112101026003B	08/02/2011 14:11	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112101026003A	08/02/2011 14:11	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112101026003A	08/02/2011 14:11	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112101026003A	08/02/2011 14:11	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112101026003A	08/02/2011 14:11	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112105711004	08/01/2011 10:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112105708004	07/31/2011 23:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112101026003	07/31/2011 23:21	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112105711004	08/01/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11215621201B	08/04/2011 01:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284202B	08/05/2011 16:10	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11216243202A	08/10/2011 11:20	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11215621201B	08/03/2011 08:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284202B	08/03/2011 17:45	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039404B	08/02/2011 17:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11216243202A	08/04/2011 11:40	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401B	07/28/2011 20:37	Scott W Freisher	1

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Analysis Report

Sample Description: TB-072511 Water
SSFL Area IV Collocated Soil Sampling
TB-072511

LLI Sample # WW 6355064
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 08:00

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB725 SDG#: DE208-15TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: TB-072511 Water
SSFL Area IV Collocated Soil Sampling
TB-072511

LLI Sample # WW 6355064
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 08:00

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB725 SDG#: DE208-15TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.

GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260B	SW-846 8260B	1	Y112101AA	07/29/2011 14:49	Chelsea B Eastep	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112081AA	07/27/2011 10:46	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E112081AA	07/27/2011 10:46	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y112101AA	07/29/2011 14:49	Chelsea B Eastep	1

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Lancaster Laboratories

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Analysis Report

Sample Description: TB-072511 Water
SSFL Area IV Collocated Soil Sampling
TB-072511

LLI Sample # WW 6355064
LLI Group # 1258174
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 08:00

Submitted: 07/26/2011 09:30
Reported: 09/06/2011 10:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB725 SDG#: DE208-15TB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11215A20A	08/03/2011 13:58	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	11215A20A	08/03/2011 13:58	Linda C Pape	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258174
Reported: 09/06/11 at 10:58 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B112082AA	Sample number(s): 6355058-6355060,6355063									
Acetone	7.5	J	6.7	8.0	ug/kg	109		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	95		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	94		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	95		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	94		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	96		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	75		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	107		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	92		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	89		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	88		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	92		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	94		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	68		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	101		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	97		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	89		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	91		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	94		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	81		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	103		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	96		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	103		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	100		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	98		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	92		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	93		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	88		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	95		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	103		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	101		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	93		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	95		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	96		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	101		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	92		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	92		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	91		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	94		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	92		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	111		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	108		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	84		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	109		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	90		76-120		

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258174
Reported: 09/06/11 at 10:58 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	90		75-120		
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	100		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	121		61-134		
Methylene Chloride	1.6	J	0.24	4.0	ug/kg	109		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	94		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	94		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	94		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	101		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	95		77-120		
Toluene	0.09	J	0.08	4.0	ug/kg	93		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	90		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	89		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	93		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	103		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	92		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	89		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	103		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	94		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	93		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	86		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	94		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	91		80-120		
Batch number: E112081AA	Sample number(s): 6355064									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	110	107	80-123	3	30
Batch number: E112082AA	Sample number(s): 6355058-6355059,6355063									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	94	100	70-130	6	30
Batch number: E112082AB	Sample number(s): 6355060									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	98	97	70-130	2	30
Batch number: Y112101AA	Sample number(s): 6355064									
Acetone	6	U	6.	20	ug/l	126	126	49-234	0	30
Benzene	0.5	U	0.5	5	ug/l	110	108	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	104	105	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	111	110	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	102	100	80-120	3	30
Bromoform	1	U	1.	5	ug/l	92	92	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	96	91	44-120	5	30
2-Butanone	3	U	3.	10	ug/l	114	115	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	112	111	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	116	114	78-120	2	30
tert-Butylbenzene	1	U	1.	5	ug/l	109	107	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	103	98	75-123	5	30
Chlorobenzene	0.8	U	0.8	5	ug/l	105	104	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	93	91	49-129	2	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	95	97	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	107	103	77-122	3	30
Chloromethane	1	U	1.	5	ug/l	111	110	60-129	1	30
2-Chlorotoluene	1	U	1.	5	ug/l	109	109	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	109	110	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	83	78	38-136	7	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	100	100	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	98	96	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	104	103	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	101	100	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	107	107	80-120	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258174
Reported: 09/06/11 at 10:58 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,3-Dichlorobenzene	1	U	1.	5	ug/l	106	105	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	105	105	80-120	0	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	98	92	47-120	5	30
1,1-Dichloroethane	1	U	1.	5	ug/l	107	105	79-120	2	30
1,2-Dichloroethane	1	U	1.	5	ug/l	104	103	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	105	103	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	108	106	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	106	104	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	106	107	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	106	107	80-120	2	30
2,2-Dichloropropane	1	U	1.	5	ug/l	103	100	77-124	3	30
1,1-Dichloropropene	1	U	1.	5	ug/l	108	103	80-120	4	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	102	102	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	100	100	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	110	107	79-120	2	30
Freon 113	2	U	2.	10	ug/l	105	99	69-128	6	30
Freon 133a	2	U	2.	5	ug/l	79	75*	77-120	5	30
Hexachlorobutadiene	2	U	2.	5	ug/l	96	98	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	110	111	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	112	110	77-120	2	30
p-Isopropyltoluene	1	U	1.	5	ug/l	112	111	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	102	102	76-120	0	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	102	102	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	106	104	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	115	113	80-120	2	30
Styrene	1	U	1.	5	ug/l	109	107	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	104	101	80-120	3	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	106	108	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	103	99	80-121	4	30
Toluene	0.7	U	0.7	5	ug/l	109	107	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	104	104	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	98	98	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	103	99	75-127	4	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	105	104	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	107	103	80-120	4	30
Trichlorofluoromethane	2	U	2.	5	ug/l	100	94	64-129	6	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	102	104	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	113	110	74-120	2	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	115	113	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	103	100	65-125	3	30
m+p-Xylene	0.8	U	0.8	5	ug/l	111	108	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	111	108	80-120	2	30
Batch number: 11213SLA026	Sample number(s): 6355047-6355049,6355052-6355057									
N-Nitrosodimethylamine	40.2		16.7	33.3	ng/kg	100		70-130		
Batch number: 11215SLD026	Sample number(s): 6355047-6355060,6355062-6355063									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	132*		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	80		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	43*		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	119		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	261*		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	1881 *		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	356*		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	917*		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	0*		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	44*		75-137		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258174
Reported: 09/06/11 at 10:58 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Chrysene	0.33	U	0.33	1.7	ug/kg	207*		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	635*		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	78		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	103		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	195*		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	53*		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	221*		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	258*		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	110		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	97		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	104		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	84		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	1884 *		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	139*		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	113		72-119		
Batch number: 11216SLC026	Sample number(s): 6355047-6355060,6355062-6355063									
Acenaphthene	17	U	17.	170	ug/kg	101		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	106		75-122		
Aniline	170 U		170.	500	ug/kg	81		20-115		
Anthracene	17	U	17.	170	ug/kg	106		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	45		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	100		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	103		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	106		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	114		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	109		67-125		
Benzoic acid	170 U		170.	500	ug/kg	88		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	92		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	109		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	105		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	106		79-112		
Carbazole	17	U	17.	170	ug/kg	101		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	97		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	50		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	100		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	99		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	100		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	100		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	102		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	99		74-115		
Chrysene	17	U	17.	170	ug/kg	99		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	112		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	96		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	93		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	94		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	95		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	73		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	99		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	102		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	98		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	102		83-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258174
Reported: 09/06/11 at 10:58 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dimethylphthalate	17	U	17.	170	ug/kg	101		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	82		46-120		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	70		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	97		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	101		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	110		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	107		75-117		
Fluoranthene	17	U	17.	170	ug/kg	104		78-116		
Fluorene	17	U	17.	170	ug/kg	100		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	110		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	100		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	105		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	96		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	112		64-119		
Isophorone	17	U	17.	170	ug/kg	99		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	98		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	99		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	102		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	99		66-117		
Naphthalene	17	U	17.	170	ug/kg	96		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	99		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	92		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	72		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	101		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	98		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	90		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	95		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	100		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	108		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	114		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	70		51-117		
Phenanthrene	17	U	17.	170	ug/kg	102		77-113		
Phenol	17	U	17.	170	ug/kg	93		58-112		
Pyrene	17	U	17.	170	ug/kg	104		75-115		
Tetralin	170	U	170.	170	ug/kg	68*		70-130		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	96		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	100		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	101		78-111		
Batch number: 11209A34A	Sample number(s): 6355058-6355060,6355062-6355063									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	68		67-119		
Batch number: 11215A20A	Sample number(s): 6355064									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	118	118	75-135	0	30
Batch number: 112140015A	Sample number(s): 6355047-6355049,6355052-6355057									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	106		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	106		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	85	85	54-134	0	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	85	85	54-134	0	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	110		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	102		72-135		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258174
Reported: 09/06/11 at 10:58 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	104		80-120		
HMX	100	U	100.	300	ug/kg	92		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	104		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	80		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	103		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	110		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	102		80-120		
PETN	800	U	800.	2,400	ug/kg	95		80-120		
RDX	50	U	50.	120	ug/kg	92		75-131		
Tetryl	61	U	61.	120	ug/kg	91		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	104		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	112		80-120		
Batch number: 112080023A	Sample number(s): 6355047-6355049,6355052-6355057									
20a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	97		80-126		
Batch number: 112200018A	Sample number(s): 6355047-6355057									
2,4-D	1.2	U	1.2	3.6	ug/kg	82		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	57		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	75		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	80		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	16		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	99		62-170		
MCPA	76	U	76.	250	ug/kg	85		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	71		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	77		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	71		68-114		
Batch number: 112200028A	Sample number(s): 6355050,6355056,6355062-6355063									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	108		85-115		
Batch number: 112150007A	Sample number(s): 6355047-6355057									
Aldrin	0.066	U	0.066	0.17	ug/kg	79		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	79		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	97		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	82		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	94		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	92		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	92		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	94		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	87		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	82		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	97		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	97		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	90		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	82		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	88		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	82		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	91		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	95		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258174
Reported: 09/06/11 at 10:58 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112160013A	Sample number(s): 6355047-6355051,6355053-6355056,6355058-6355060,6355062-6355063									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	91	91	36-106	1	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	102		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	118		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112200013A	Sample number(s): 6355052,6355057									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	80	77	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	93		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	92		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112080004A	Sample number(s): 6355047-6355049,6355052-6355060,6355062-6355063									
Diethylene glycol	5.0	U	5.0	10	mg/kg	143*		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	139*		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	130*		75-125		
Batch number: 112090042A	Sample number(s): 6355047-6355049,6355052-6355060,6355062-6355063									
Ethanol	100 U		100.	500	ug/kg	94		71-129		
Isopropanol	100 U		100.	500	ug/kg	105		75-125		
Methanol	100 U		100.	500	ug/kg	89		68-129		
Batch number: 112160029A	Sample number(s): 6355047-6355049,6355052-6355060,6355062-6355063									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	93		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	94		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	92		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	87		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	76		54-107		
Batch number: 112160030A	Sample number(s): 6355047-6355049,6355052-6355060,6355062-6355063									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	82		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	92		75-125		
Batch number: 112101026003A	Sample number(s): 6355047-6355063									
Antimony	0.0740	U	0.0740	0.200	mg/kg	88		40-224		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	105		78-122		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258174
Reported: 09/06/11 at 10:58 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Beryllium	0.0160	U	0.0160	0.100	mg/kg	102		80-120		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	105		81-119		
Chromium	0.120	U	0.120	0.400	mg/kg	106		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	100		80-119		
Copper	0.0800	U	0.0800	0.400	mg/kg	102		78-122		
Lead	0.0102	U	0.0102	0.200	mg/kg	104		77-123		
Nickel	0.100	U	0.100	0.400	mg/kg	110		80-120		
Silver	0.0142	U	0.0142	0.100	mg/kg	108		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	104		75-124		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	108		76-124		
Zinc	0.560	U	0.560	3.00	mg/kg	106		79-121		
Batch number: 112101026003B	Sample number(s): 6355047-6355063									
Selenium	0.0580	U	0.0580	0.400	mg/kg	109		77-123		
Batch number: 112101026003C	Sample number(s): 6355047-6355063									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	106		76-123		
Batch number: 112101026003D	Sample number(s): 6355047-6355063									
Barium	0.106	U	0.106	0.400	mg/kg	105		80-120		
Batch number: 112105708004	Sample number(s): 6355047-6355063									
Aluminum	6.17	J	6.05	20.0	mg/kg	140		42-158		
Boron	0.807	J	0.360	5.00	mg/kg	107		66-134		
Calcium	13.3	J	2.50	20.0	mg/kg	106		79-121		
Iron	5.73	J	2.61	20.0	mg/kg	126		51-149		
Lithium	0.62	U	0.62	2.0	mg/kg	98		80-120		
Magnesium	0.440	U	0.440	10.0	mg/kg	119		64-136		
Manganese	0.0420	J	0.0360	0.500	mg/kg	98		78-122		
Phosphorus	1.25	J	0.350	10.0	mg/kg	104		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	113		69-131		
Sodium	5.95	U	5.95	100	mg/kg	107		71-129		
Strontium	0.0750	J	0.0250	0.500	mg/kg	105		81-119		
Tin	1.67	J	0.320	10.0	mg/kg	94		74-126		
Titanium	0.0710	U	0.0710	1.00	mg/kg	185		40-186		
Zirconium	0.557	J	0.460	5.00	mg/kg	101		80-120		
Batch number: 112105711004	Sample number(s): 6355047-6355063									
Mercury	0.0070	U	0.0070	0.0995	mg/kg	101		72-128		
Batch number: 11215284202A	Sample number(s): 6355047-6355056									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11215284202B	Sample number(s): 6355057-6355059,6355061-6355063									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11215621201A	Sample number(s): 6355047-6355056									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	110		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	101		90-110		
Batch number: 11215621201B	Sample number(s): 6355057-6355059,6355061-6355063									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	110		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	101		90-110		
Batch number: 11216243202A	Sample number(s): 6355047-6355059,6355061-6355063									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	92		80-120		
Batch number: 11217102201A	Sample number(s): 6355047-6355049,6355052-6355057									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258174
Reported: 09/06/11 at 10:58 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	97		80-120		
Batch number: 11214039404A	Sample number(s): 6355047-6355055									
17a pH by 9045C						100		95-105		
Batch number: 11214039404B	Sample number(s): 6355056-6355058,6355061-6355063									
17a pH by 9045C						100		95-105		
Batch number: 11209162401B	Sample number(s): 6355050-6355051,6355058-6355063									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Batch number: 11222162401A	Sample number(s): 6355047-6355049,6355052-6355057									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B112082AA	Sample number(s): 6355058-6355060,6355063 UNSPK: 6355058								
Acetone	91	84	15-210	13	30				
Benzene	99	94	55-143	10	30				
Bromobenzene	91	84	43-139	13	30				
Bromochloromethane	92	85	60-137	14	30				
Bromodichloromethane	92	86	53-136	12	30				
Bromoform	84	79	38-124	12	30				
Bromomethane	82	74	42-168	15	30				
2-Butanone	83	77	37-163	13	30				
n-Butylbenzene	98	88	30-146	16	30				
sec-Butylbenzene	97	89	33-157	14	30				
tert-Butylbenzene	94	85	41-152	15	30				
Carbon Tetrachloride	100	97	45-153	8	30				
Chlorobenzene	95	90	49-135	10	30				
Chloroethane	78	73	39-152	12	30				
2-Chloroethyl Vinyl Ether	93	83	32-139	16	30				
Chloroform	99	93	61-142	11	30				
Chloromethane	99	89	51-163	16	30				
2-Chlorotoluene	93	86	42-146	14	30				
4-Chlorotoluene	96	88	39-145	14	30				
Chlorotrifluoroethene	94	86	70-130	17	30				
1,2-Dibromo-3-chloropropane	81	74	30-139	15	30				
Dibromochloromethane	88	83	51-128	11	30				
1,2-Dibromoethane	89	85	54-129	10	30				
Dibromomethane	91	86	57-130	11	30				
1,2-Dichlorobenzene	94	86	36-133	15	30				
1,3-Dichlorobenzene	91	84	34-134	13	30				
1,4-Dichlorobenzene	93	85	35-136	14	30				
Dichlorodifluoromethane	105	92	26-151	19	30				
1,1-Dichloroethane	100	95	63-142	10	30				
1,2-Dichloroethane	97	91	68-131	12	30				

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Quality Control Summary

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Reported: 09/06/11 at 10:58 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,1-Dichloroethene	113	109	61-149	9	30				
cis-1,2-Dichloroethene	97	91	60-136	12	30				
trans-1,2-Dichloroethene	102	94	59-142	13	30				
1,2-Dichloropropane	94	90	62-135	10	30				
1,3-Dichloropropane	92	86	58-129	12	30				
2,2-Dichloropropane	99	97	53-147	8	30				
1,1-Dichloropropene	100	98	54-145	8	30				
cis-1,3-Dichloropropene	88	84	51-131	9	30				
trans-1,3-Dichloropropene	86	82	49-129	10	30				
Ethylbenzene	96	90	44-141	12	30				
Freon 113	121	117	56-156	10	30				
Freon 133a	119	111	61-131	15	30				
Hexachlorobutadiene	84	74	10-155	19	30				
2-Hexanone	80	77	32-160	9	30				
Isopropylbenzene	95	90	38-144	11	30				
p-Isopropyltoluene	95	87	29-152	14	30				
Methyl Tertiary Butyl Ether	89	84	55-129	12	30				
4-Methyl-2-pentanone	92	84	46-139	14	30				
Methylene Chloride	105	100	61-141	8	30				
n-Propylbenzene	99	92	39-157	13	30				
Styrene	96	89	35-134	13	30				
1,1,1,2-Tetrachloroethane	94	86	52-130	15	30				
1,1,2,2-Tetrachloroethane	86	79	40-152	14	30				
Tetrachloroethene	101	94	42-149	13	30				
Toluene	97	92	50-146	10	30				
1,2,3-Trichlorobenzene	83	74	10-140	16	30				
1,2,4-Trichlorobenzene	82	74	10-136	16	30				
1,1,1-Trichloroethane	100	96	64-142	10	30				
1,1,2-Trichloroethane	93	87	54-139	12	30				
Trichloroethene	97	93	53-144	10	30				
Trichlorofluoromethane	105	94	47-163	17	30				
1,2,3-Trichloropropane	86	81	45-154	12	30				
1,2,4-Trimethylbenzene	95	87	37-149	14	30				
1,3,5-Trimethylbenzene	96	88	38-150	14	30				
Vinyl Chloride	98	91	50-154	13	30				
m+p-Xylene	97	92	44-137	12	30				
o-Xylene	94	86	42-137	14	30				
Batch number: E112082AA	Sample number(s): 6355058-6355059,6355063 UNSPK: 6355058								
1,4-Dioxane	87	91	70-130	6	30				
Batch number: E112082AB	Sample number(s): 6355060 UNSPK: 6355058								
1,4-Dioxane	87	91	70-130	6	30				
Batch number: 11213SLA026	Sample number(s): 6355047-6355049,6355052-6355057 UNSPK: P353026								
N-Nitrosodimethylamine	78	75	70-130	5	30				
Batch number: 11215SLD026	Sample number(s): 6355047-6355060,6355062-6355063 UNSPK: 6355058								
Acenaphthene	95	70	63-105	30	30				
Acenaphthylene	92	67	67-114	31*	30				
Anthracene	90	59*	73-115	41*	30				
Benzo(a)anthracene	104	74	59-128	33*	30				
Benzo(a)pyrene	66	39*	58-142	40*	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258174
Reported: 09/06/11 at 10:58 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(b)fluoranthene	73	50*	54-163	28	30				
Benzo(g,h,i)perylene	37	25*	33-141	27	30				
Benzo(k)fluoranthene	68	49*	57-153	26	30				
Butylbenzylphthalate	113	0*	57-173	200*	30				
Di-n-butylphthalate	119	0*	65-148	200*	30				
Chrysene	85	59*	67-123	30	30				
Dibenz(a,h)anthracene	57	43	22-133	27	30				
Diethylphthalate	93	0*	70-136	200*	30				
Dimethylphthalate	99	0*	74-118	200*	30				
Bis(2-Ethylhexyl)phthalate	123	0*	39-167	200*	30				
Fluoranthene	91	67	51-149	27	30				
Fluorene	94	71	66-122	27	30				
Indeno(1,2,3-cd)pyrene	57	43	21-143	28	30				
1-Methylnaphthalene	88	68*	72-123	25	30				
2-Methylnaphthalene	86	68	64-103	23	30				
Naphthalene	90	71	61-102	24	30				
N-Nitrosodimethylamine	87	69	48-113	23	30				
Di-n-octylphthalate	61	34*	40-192	12	30				
Phenanthrene	92	73	62-122	23	30				
Pyrene	83	60	51-131	28	30				
Batch number: 11216SLC026	Sample number(s): 6355047-6355060,6355062-6355063 UNSPK: 6355058								
Acenaphthene	80	80	75-115	0	30				
Acenaphthylene	86	84	81-110	2	30				
Aniline	61	54	18-116	12	30				
Anthracene	87	85	75-115	2	30				
Benzidine	26*	18*	35-141	36*	30				
Benzo(a)anthracene	81	81	65-122	0	30				
Benzo(a)pyrene	81	80	57-126	1	30				
Benzo(b)fluoranthene	89	89	59-125	0	30				
Benzo(g,h,i)perylene	91	89	59-127	2	30				
Benzo(k)fluoranthene	79	78	56-132	1	30				
Benzoic acid	50	50	10-173	1	30				
Benzyl alcohol	74	74	67-115	0	30				
4-Bromophenyl-phenylether	91	90	67-129	2	30				
Butylbenzylphthalate	85	85	73-134	1	30				
Di-n-butylphthalate	86	84	67-123	2	30				
Carbazole	82	80	64-120	3	30				
4-Chloro-3-methylphenol	77	77	62-122	1	30				
4-Chloroaniline	44	27	13-107	50*	30				
bis(2-Chloroethoxy)methane	79	80	75-104	1	30				
bis(2-Chloroethyl)ether	76	78	60-116	3	30				
bis(2-Chloroisopropyl)ether	76	77	55-142	2	30				
2-Chloronaphthalene	81	81	50-141	0	30				
2-Chlorophenol	80	81	73-121	1	30				
4-Chlorophenyl-phenylether	79*	77*	80-109	3	30				
Chrysene	81	81	62-128	0	30				
Dibenz(a,h)anthracene	91	90	65-125	1	30				
Dibenzofuran	78	76	71-112	3	30				
1,2-Dichlorobenzene	72	74	66-108	4	30				
1,3-Dichlorobenzene	71	74	63-109	3	30				
1,4-Dichlorobenzene	73	75	58-108	2	30				
3,3'-Dichlorobenzidine	62	62	28-109	0	30				

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Quality Control Summary

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Reported: 09/06/11 at 10:58 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dichlorophenol	79	79	66-123	1	30				
Diethylphthalate	82	80	66-118	3	30				
2,4-Dimethylphenol	79	78	68-118	1	30				
3,5-Dimethylphenol	83	83	71-127	0	30				
Dimethylphthalate	82	80	64-118	3	30				
4,6-Dinitro-2-methylphenol	65	64	11-126	1	30				
2,4-Dinitrophenol	40	37	20-143	9	30				
2,4-Dinitrotoluene	78	76	56-129	3	30				
2,6-Dinitrotoluene	83	82	69-123	1	30				
1,2-Diphenylhydrazine	89	89	71-129	0	30				
bis(2-Ethylhexyl)phthalate	86	87	63-122	1	30				
Fluoranthene	84	79	73-112	5	30				
Fluorene	80	78	63-121	2	30				
Hexachlorobenzene	88	86	77-114	1	30				
Hexachlorobutadiene	81	82	62-120	1	30				
Hexachlorocyclopentadiene	71	70	10-153	2	30				
Hexachloroethane	75	77	57-109	3	30				
Indeno(1,2,3-cd)pyrene	90	88	61-126	3	30				
Isophorone	80	80	73-102	0	30				
1-Methylnaphthalene	78	77	64-122	1	30				
2-Methylnaphthalene	79	79	76-114	1	30				
2-Methylphenol	79	80	75-111	1	30				
4-Methylphenol	77	76	59-123	1	30				
Naphthalene	77	78	72-116	2	30				
2-Nitroaniline	81	81	67-125	1	30				
3-Nitroaniline	73	71	59-122	2	30				
4-Nitroaniline	58	59	41-109	0	30				
Nitrobenzene	80	82	57-125	2	30				
2-Nitrophenol	80	79	56-127	1	30				
4-Nitrophenol	72	68	37-129	6	30				
N-Nitroso-di-n-propylamine	75	75	60-116	0	30				
N-Nitrosodimethylamine	79	80	47-116	2	30				
N-Nitrosodiphenylamine	87	86	71-122	1	30				
Di-n-octylphthalate	88	85	56-126	3	30				
Pentachlorophenol	64	62	28-127	3	30				
Phenanthrene	83	81	65-125	3	30				
Phenol	73	74	58-126	1	30				
Pyrene	83	81	74-126	2	30				
Tetralin	55*	86	70-130	43*	30				
1,2,4-Trichlorobenzene	77	80	72-115	3	30				
2,4,5-Trichlorophenol	82	79	58-129	4	30				
2,4,6-Trichlorophenol	81	80	56-134	2	30				
Batch number: 11209A34A	Sample number(s): 6355058-6355060,6355062-6355063 UNSPK: 6355058								
9a TPH by EPA 8015B Gas C5-C12	69	73	39-118	10	30				
Batch number: 112140015A	Sample number(s): 6355047-6355049,6355052-6355057 UNSPK: P353026								
4-Amino-2,6-Dinitrotoluene	111	106	80-127	4	50				
2-Amino-4,6-Dinitrotoluene	108	105	80-137	2	50				
1,3-Dinitrobenzene	109	109	38-166	0	50				
2,4-Dinitrotoluene	104	101	80-131	2	50				
2,6-Dinitrotoluene	112	104	80-127	7	50				
HMX	95	91	63-128	4	50				

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Quality Control Summary

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Reported: 09/06/11 at 10:58 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Nitrobenzene	92	104	80-125	12	50				
Nitroglycerin	87	84	80-120	4	50				
2-Nitrotoluene	106	102	80-122	4	50				
3-Nitrotoluene	114	111	72-119	3	50				
4-Nitrotoluene	105	102	80-125	4	50				
PETN	104	102	80-121	3	50				
RDX	93	90	75-129	3	50				
Tetryl	109	83	55-174	27	50				
1,3,5-Trinitrobenzene	105	101	82-126	4	50				
2,4,6-Trinitrotoluene	112	108	82-130	4	50				
Batch number: 112080023A	Sample number(s): 6355047-6355049,6355052-6355057 UNSPK: 6355047								
20a Formaldehyde 8315A	103	101	80-120	3	50				
Batch number: 112200018A	Sample number(s): 6355047-6355057 UNSPK: P358381								
2,4-D	62	59	17-180	5	35				
Dalapon	41	43	10-125	4	50				
2,4-DB	113	1*	10-201	157*	50				
Dicamba	122	108	10-190	12	50				
Dinoseb	9*	0*	10-46	200*	35				
2,4-DP (Dichlorprop)	82	70	33-178	15	50				
MCPA	54	40	10-213	29	50				
MCPP (Mecoprop)	61	80	10-184	26	50				
2,4,5-T	59	54	10-156	9	35				
2,4,5-TP	25	25	24-141	0	35				
Batch number: 112200028A	Sample number(s): 6355050,6355056,6355062-6355063 UNSPK: 6355050								
6a Perchlorate EPA 6850	107	115	80-120	7	20				
Batch number: 112150007A	Sample number(s): 6355047-6355057 UNSPK: P354150								
Aldrin	103	85	16-126	19	50				
Alpha BHC	82	79	10-129	4	50				
Beta BHC	119	100	14-147	17	50				
Gamma BHC - Lindane	106	97	10-140	6	50				
p,p-DDD	69	67	16-163	2	50				
p,p-DDE	105	97	18-161	3	50				
p,p-DDT	51	31	10-176	6	50				
Delta BHC	109	72	23-140	22	50				
Dieldrin	99	87	19-154	13	50				
Endosulfan I	94	82	16-137	13	50				
Endosulfan II	89	86	28-154	4	50				
Endosulfan Sulfate	58	55	21-160	5	50				
Endrin	90	81	11-149	11	50				
Endrin Aldehyde	95	86	10-148	10	35				
Endrin Ketone	77	70	22-165	10	50				
Heptachlor	100	94	13-126	6	50				
Heptachlor Epoxide	91	82	13-157	11	50				
Methoxychlor	89	76	32-147	16	50				
Batch number: 112160013A	Sample number(s): 6355047-6355051,6355053-6355056,6355058-6355060,6355062-6355063 UNSPK: 6355058								
PCB-1016	86	91	29-146	5	50				
PCB-1260	83	96	39-149	15	50				

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Quality Control Summary

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Reported: 09/06/11 at 10:58 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112200013A	Sample number(s): 6355052,6355057 UNSPK: P358381								
PCB-1016	82	88	29-146	7	50				
PCB-1260	39	117	39-149	49	50				
Batch number: 112080004A	Sample number(s): 6355047-6355049,6355052-6355060,6355062-6355063 UNSPK: 6355058								
Diethylene glycol	27*	26*	59-109	6	20				
Ethylene glycol	66	65	63-107	1	20				
Propylene glycol	72	73	63-107	2	20				
Batch number: 112090042A	Sample number(s): 6355047-6355049,6355052-6355060,6355062-6355063 UNSPK: 6355058								
Ethanol	94	101	48-130	6	20				
Isopropanol	100	83	12-149	19	20				
Methanol	91	110	43-138	19	20				
Batch number: 112160029A	Sample number(s): 6355047-6355049,6355052-6355060,6355062-6355063 UNSPK: 6355058								
EFH (C12-C14)	90	102	49-123	12	20				
EFH (C15-C20)	101	134*	49-123	29*	20				
EFH (C21-C30)	100	488*	49-123	132*	20				
EFH (C30 - C40)	56	1213*	49-123	176*	20				
EFH (C8-C11)	81	100	49-123	21*	20				
Batch number: 112160030A	Sample number(s): 6355047-6355049,6355052-6355060,6355062-6355063 UNSPK: 6355058								
m-Terphenyl	78	78	75-125	0	20				
o-Terphenyl	93	95	75-125	2	20				
p-Terphenyl	88	88	75-125	0	20				
Batch number: 112101026003A	Sample number(s): 6355047-6355063 UNSPK: 6355058 BKG: 6355058								
Antimony	39*	29*	75-125	20	20	0.161 J	0.106 J	41* (1)	20
Arsenic	147*	87	75-125	17	20	4.84	5.18	7	20
Beryllium	127*	91	75-125	20	20	0.504	0.557	10	20
Cadmium	134*	104	75-125	22*	20	0.185	0.158	16 (1)	20
Chromium	126*	88	75-125	13	20	19.3	20.6	7	20
Cobalt	125	98	75-125	21*	20	6.39	6.99	9	20
Copper	136*	110	75-125	11	20	10.5	10.8	3	20
Lead	156*	115	75-125	12	20	6.46	6.18	4	20
Nickel	140*	95	75-125	18	20	13.3	13.2	0	20
Silver	129*	107	75-125	19	20	0.0353 J	0.0307 J	14 (1)	20
Thallium	133*	99	75-125	18	20	0.279	0.278	0 (1)	20
Vanadium	141*	94	75-125	10	20	35.8	38.1	6	20
Zinc	192 (2)	99 (2)	75-125	11	20	70.3	71.9	2	20
Batch number: 112101026003B	Sample number(s): 6355047-6355063 UNSPK: 6355058 BKG: 6355058								
Selenium	126*	107	75-125	16	20	0.149 J	0.133 J	12 (1)	20
Batch number: 112101026003C	Sample number(s): 6355047-6355063 UNSPK: 6355058 BKG: 6355058								
Molybdenum	130*	106	75-125	19	20	0.647	0.728	12	20
Batch number: 112101026003D	Sample number(s): 6355047-6355063 UNSPK: 6355058 BKG: 6355058								
Barium	219 (2)	58 (2)	75-125	15	20	88.4	93.5	6	20
Batch number: 112105708004	Sample number(s): 6355047-6355063 UNSPK: 6355058 BKG: 6355058								
Aluminum	1108	1247	75-125	2	20	11,900	12,700	6	20

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Quality Control Summary

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Reported: 09/06/11 at 10:58 AM

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Analysis Name	MS %REC (2)	MSD %REC (2)	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Boron	100	98	84-115	2	20	0.356 U	0.705 J	200* (1)	20
Calcium	189 (2)	204 (2)	75-125	1	20	7,490	9,280	21*	20
Iron	304 (2)	638 (2)	75-125	2	20	18,700	20,300	8	20
Lithium	99	99	82-114	1	20	23.7	23.6	0	20
Magnesium	95 (2)	22 (2)	75-125	3	20	5,380	5,460	1	20
Manganese	111 (2)	97 (2)	75-125	2	20	257	276	7	20
Phosphorus	81	99	75-125	4	20	379	399	5	20
Potassium	107	106	75-125	0	20	2,660	2,750	3	20
Sodium	96	96	75-125	1	20	225	232	3 (1)	20
Strontium	95	96	75-115	0	20	23.3	25.0	7	20
Tin	87	87	80-110	1	20	0.462 J	2.26 J	132* (1)	20
Titanium	394 (2)	333 (2)	75-125	5	20	937	1,100	16	20
Zirconium	98	97	75-125	1	20	2.05 J	2.97 J	37* (1)	20
Batch number: 112105711004	Sample number(s): 6355047-6355063 UNSPK: 6355058 BKG: 6355058								
Mercury	99	91	65-135	4	20	0.0244 J	0.0151 J	47* (1)	20
Batch number: 11215284202A	Sample number(s): 6355047-6355056 UNSPK: 6355047 BKG: 6355047								
7a Perchlorate EPA 314.0	92		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11215284202B	Sample number(s): 6355057-6355059,6355061-6355063 UNSPK: 6355058 BKG: 6355058								
7a Perchlorate EPA 314.0	100		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11215621201A	Sample number(s): 6355047-6355056 UNSPK: 6355047 BKG: 6355047								
11a Anions by 300.0 - Fluoride	60*		80-120			1.2	1.4	14 (1)	20
11a Anions by 300.0 - Nitrate	103		80-120			1.4 J	3.0	73* (1)	20
Batch number: 11215621201B	Sample number(s): 6355057-6355059,6355061-6355063 UNSPK: 6355058 BKG: 6355058								
11a Anions by 300.0 - Fluoride	91		80-120			2.9	3.0	4 (1)	20
11a Anions by 300.0 - Nitrate	104		80-120			0.80 U	0.91 J	200* (1)	20
Batch number: 11216243202A	Sample number(s): 6355047-6355059,6355061-6355063 UNSPK: 6355058 BKG: 6355058								
3a Cr VI by EPA 7199	93		75-125			0.92 J	0.20 U	200* (1)	20
Batch number: 11217102201A	Sample number(s): 6355047-6355049,6355052-6355057 UNSPK: 6355047 BKG: 6355047								
16a Cyanide by 9012B	101		75-125			0.18 U	0.20 J	200* (1)	20
Batch number: 11214039404A	Sample number(s): 6355047-6355055 BKG: 6355047								
17a pH by 9045C						6.67	6.64	0	3
Batch number: 11214039404B	Sample number(s): 6355056-6355058,6355061-6355063 BKG: 6355058								
17a pH by 9045C						8.06	8.10	0	3
Batch number: 11209162401B	Sample number(s): 6355050-6355051,6355058-6355063 BKG: 6355058								
28a Moisture Content by 160.3						5.4	5.7	6	20
Moisture Content by 160.3						5.4	5.7	6	20
Moisture Content by 160.3						5.4	5.7	6	20
Batch number: 11222162401A	Sample number(s): 6355047-6355049,6355052-6355057 BKG: P353026								
Moisture Content by 160.3						1.9	1.9	1 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258174
Reported: 09/06/11 at 10:58 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B112082AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6355058	104	103	98	92
6355059	99	97	102	100
6355060	100	98	101	101
6355063	103	98	98	90
Blank	103	102	98	93
LCS	101	101	102	101
MS	99	97	102	100
MSD	100	98	101	101
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E112081AA

	Toluene-d8
6355064	102
Blank	102
LCS	102
LCSD	102
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E112082AA

	Toluene-d8
6355058	98
6355059	97
6355063	97
Blank	98
LCS	97
LCSD	97
MS	97
MSD	96
Limits:	70-130

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E112082AB

	Toluene-d8
6355060	96
Blank	96
LCS	96
LCSD	97
MS	97
MSD	96
Limits:	70-130

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258174
Reported: 09/06/11 at 10:58 AM

Surrogate Quality Control

Analysis Name: 1b Volatile Organics EPA8260B
Batch number: Y112101AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6355064	98	101	101	99
Blank	99	101	101	98
LCS	98	104	103	103
LCSD	98	103	102	102
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 21a NDMA by 1625C
Batch number: 11213SLA026

	N-Nitrosodimethylamine-d6
6355047	86
6355048	83
6355049	75
6355052	86
6355053	70
6355054	80
6355055	74
6355056	73
6355057	84
Blank	114
LCS	103
MS	76
MSD	79
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11215SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6355047	106	93	105
6355048	105	93	107
6355049	100	93	105
6355050	103	97	106
6355051	110	98	115
6355052	106	97	108
6355053	107	107	115
6355054	99	90	91
6355055	106	94	91
6355056	115	102	98
6355057	88	79	84
6355058	88	92	97
6355059	91	91	98
6355060	71	70	71
6355062	93	87	89
6355063	93	87	93
Blank	113	104	125
LCS	116	347*	683*
MS	91	91	98
MSD	71	70	71

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258174
Reported: 09/06/11 at 10:58 AM

Surrogate Quality Control

Limits:	40-130	45-130	45-135			

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11216SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6355047	78	76	64	74	75	66
6355048	88	86	86	91	94	87
6355049	94	95	85	95	101	89
6355050	88	85	80	88	93	86
6355051	85	84	82	86	95	86
6355052	88	87	81	89	94	87
6355053	90	88	86	90	96	88
6355054	90	92	87	92	97	84
6355055	85	86	69	88	91	81
6355056	91	91	80	92	96	86
6355057	92	95	92	98	103	89
6355058	90	88	84	90	95	87
6355059	77	76	78	76	78	72
6355060	77	77	76	76	77	70
6355062	85	86	81	87	91	83
6355063	87	88	78	90	90	85
Blank	80	80	81	79	79	74
LCS	97	95	97	93	96	88
MS	77	76	78	76	78	72
MSD	77	77	76	76	77	70
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11209A34A

	Trifluorotoluene-F
6355058	81
6355059	83
6355060	83
6355062	82
6355063	78
Blank	83
LCS	88
MS	83
MSD	83
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11215A20A

	Trifluorotoluene-F
6355064	98
Blank	98
LCS	152*
LCSD	150*
Limits:	63-135

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258174
Reported: 09/06/11 at 10:58 AM

Surrogate Quality Control

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112080023A

	Butyraldehyde
6355047	93
6355048	106
6355049	105
6355052	105
6355053	110
6355054	106
6355055	108
6355056	109
6355057	111
Blank	107
LCS	104
MS	102
MSD	101
Limits:	64-126

Analysis Name: 15a Energetics by 8330A
Batch number: 112140015A

	2-Nitro-m-xylene
6355047	105
6355048	115
6355049	118
6355052	110
6355053	111
6355054	118
6355055	118
6355056	116
6355057	117
Blank	121
LCS	110
LCSD	106
MS	106
MSD	103
Limits:	80-146

Analysis Name: 12a Pesticides by 8081A
Batch number: 112150007A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6355047	89	89
6355048	68	97
6355049	69	58
6355050	74	66
6355051	55	66
6355052	75	55
6355053	70	67
6355054	105	113
6355055	74	70
6355056	81	82
6355057	43*	173*
Blank	86	98

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258174
Reported: 09/06/11 at 10:58 AM

Surrogate Quality Control

LCS	89	99
MS	113	84
MSD	107	60
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112160013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6355047	91	115
6355048	59	44*
6355049	104	80
6355050	106	91
6355051	97	85
6355053	99	100
6355054	84	63
6355055	98	77
6355056	76	72
6355058	82	63
6355059	102	81
6355060	102	84
6355062	91	87
6355063	60	83
Blank	108	102
LCS	113	115
LCSD	110	106
MS	102	81
MSD	102	84
Limits:	53-139	45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112200013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6355052	101	107
6355057	54	46
Blank	98	99
LCS	96	101
LCSD	96	104
MS	92	78
MSD	89	78
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112200018A

	2,4-Dichlorophenylacetic acid
6355047	86
6355048	100
6355049	87
6355050	93
6355051	125
6355052	95

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258174
Reported: 09/06/11 at 10:58 AM

Surrogate Quality Control

6355053	113
6355054	89
6355055	107
6355056	74
6355057	97
Blank	90
LCS	85
MS	117
MSD	79

Limits: 36-156

Analysis Name: 19a Glycols by 8015B
Batch number: 112080004A

Tetramethylene glycol

6355047	94
6355048	98
6355049	92
6355052	92
6355053	101
6355054	78
6355055	84
6355056	89
6355057	84
6355058	90
6355059	92
6355060	92
6355062	96
6355063	89
Blank	119
LCS	149*
MS	92
MSD	92

Limits: 29-137

Analysis Name: 18a Alcohols by 8015B
Batch number: 112090042A

Acetone

6355047	111
6355048	107
6355049	103
6355052	104
6355053	107
6355054	105
6355055	102
6355056	103
6355057	134
6355058	98
6355059	95
6355060	92
6355062	99
6355063	75
Blank	106
LCS	106
MS	95

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258174
Reported: 09/06/11 at 10:58 AM

Surrogate Quality Control

MSD	92	

Limits: 42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112160029A

	Chlorobenzene	Orthoterphenyl
6355047	68	91
6355048	62	90
6355049	70	90
6355052	65	88
6355053	75	89
6355054	71	87
6355055	73	87
6355056	66	89
6355057	70	94
6355058	70	90
6355059	79	95
6355060	80	97
6355062	67	85
6355063	63	87
Blank	75	88
LCS	86	97
MS	79	95
MSD	80	97
Limits:	37-125	47-145

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112160030A

	n-Triacontane-d62
6355047	80
6355048	93
6355049	78
6355052	78
6355053	79
6355054	66
6355055	70
6355056	65
6355057	6*
6355058	78
6355059	79
6355060	80
6355062	77
6355063	75
Blank	80
LCS	82
MS	79
MSD	80
Limits:	50-150

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1258174 6355047-64

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-190-SA6-SS-0.0-0.5	7/25/11	1551	SOIL	NONE	1-SS Sleeve			X	X																	
SL-190-SA6-SS-0.0-0.5	7/25/11	1551	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-192-SA6-SS-0.0-0.5	7/25/11	1523	SOIL	NONE	1-SS Sleeve			X	X																	
SL-192-SA6-SS-0.0-0.5	7/25/11	1523	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-193-SA6-SS-0.0-0.5	7/25/11	1056	SOIL	NONE	1-SS Sleeve			X	X																	
SL-193-SA6-SS-0.0-0.5	7/25/11	1056	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-235-SA6-SS-0.0-0.5	7/25/11	0815	SOIL	NONE	1-SS Sleeve			X	X																	
SL-235-SA6-SS-0.0-0.5	7/25/11	0815	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X	X										
SL-236-SA6-SS-0.0-0.5	7/25/11	0752	SOIL	NONE	1-SS Sleeve			X	X																	
SL-236-SA6-SS-0.0-0.5	7/25/11	0752	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X										
SL-245-SA6-SS-0.0-0.5	7/25/11	1139	SOIL	NONE	1-SS Sleeve			X	X																	
SL-245-SA6-SS-0.0-0.5	7/25/11	1139	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-253-SA6-SS-0.0-0.5	7/25/11	1421	SOIL	NONE	1-SS Sleeve			X	X																	
SL-253-SA6-SS-0.0-0.5	7/25/11	1421	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-254-SA6-SS-0.0-0.5	7/25/11	1345	SOIL	NONE	1-SS Sleeve			X	X																	
SL-254-SA6-SS-0.0-0.5	7/25/11	1345	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-255-SA6-SS-0.0-0.5	7/25/11	0935	SOIL	NONE	1-SS Sleeve			X	X																	
SL-255-SA6-SS-0.0-0.5	7/25/11	0935	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-256-SA6-SS-0.0-0.5	7/25/11	1020	SOIL	NONE	1-SS Sleeve			X	X																	
SL-256-SA6-SS-0.0-0.5	7/25/11	1020	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-268-SA6-SS-0.0-0.5	7/25/11	1453	SOIL	NONE	1-SS Sleeve			X	X																	
SL-268-SA6-SS-0.0-0.5	7/25/11	1353	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time 07/25/2011 / 1600	Received for Laboratory by: (*Signature*)	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 7/26/11 0730	Airbill No.(s) 8754 3341 0690, 0369, 0370	

1303 1958114 6355041 64

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA8) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-098-SA6-SB-2.5MS	7/25/11	0945	SOIL	NONE	15-Encores										X	X	X										MS/MSD
SL-098-SA6-SB-2.0-3.0MS	7/25/11	0950	SOIL	NONE	9-16 oz Jars	X	X	X	X	X	X	X	X					X						X	X	X	MS/MSD
SL-289-SA6-SB-4.0	7/25/11	0825	SOIL	NONE	1-Encores												X										
SL-289-SA6-SB-3.5-4.5	7/25/11	0830	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
DUP07-SA6-QC-072511	7/25/11	1000	SOIL	NONE	5-Encore										X	X	X										
DUP07-SA6-QC-072511	7/25/11	1000	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
TB-072511	7/25/11	0600	WATER	NONE	4-40mL Vials										X	X	X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	07/25/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
	7/26/11 1012	8754 3341 0690, 0369, 0370	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/26/2011
Group Number: 1258175
SDG: DX118
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-098-SA6-SB-2.0-3.0 Soil	6355065
SL-098-SA6-SB-2.0-3.0MS Soil	6355066
SL-098-SA6-SB-2.0-3.0MSD Soil	6355067
SL-289-SA6-SB-3.5-4.5 Soil	6355068
DUP07-SA6-QC-072511 Soil	6355069

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-098-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355065
LLI Group # 1258175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 08/12/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD098 SDG#: DX118-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-098-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355065
LLI Group # 1258175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 08/12/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD098 SDG#: DX118-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0125 JB	0.0111	1.03	1
11031	12378-PeCDD	40321-76-4	0.0473 JBQ	0.0187	5.13	1
11031	123478-HxCDD	39227-28-6	0.0427 JBQ	0.0262	5.13	1
11031	123678-HxCDD	57653-85-7	0.228 JB	0.0270	5.13	1
11031	123789-HxCDD	19408-74-3	0.101 JBQ	0.0268	5.13	1
11031	1234678-HpCDD	35822-46-9	6.92 B	0.0363	5.13	1
11031	OCDD	3268-87-9	92.5 B	0.0254	10.3	1
11031	2378-TCDF	51207-31-9	0.0783 J	0.0309	1.03	1
11031	12378-PeCDF	57117-41-6	0.333 JB	0.0238	5.13	1
11031	23478-PeCDF	57117-31-4	0.0986 JB	0.0225	5.13	1
11031	123478-HxCDF	70648-26-9	0.175 JB	0.0210	5.13	1
11031	123678-HxCDF	57117-44-9	0.0873 JB	0.0210	5.13	1
11031	123789-HxCDF	72918-21-9	0.0362 JB	0.0212	5.13	1
11031	234678-HxCDF	60851-34-5	0.0979 JB	0.0191	5.13	1
11031	1234678-HpCDF	67562-39-4	1.12 JB	0.0152	5.13	1
11031	1234789-HpCDF	55673-89-7	0.123 JB	0.0179	5.13	1
11031	OCDF	39001-02-0	3.04 JB	0.0216	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	85	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	76	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-098-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355065
LLI Group # 1258175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 08/12/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD098 SDG#: DX118-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-098-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355065
LLI Group # 1258175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 08/12/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD098 SDG#: DX118-12BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11216001	08/07/2011 14:39	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11216001	08/04/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401B	07/28/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-098-SA6-SB-2.0-3.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355066
LLI Group # 1258175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 08/12/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD098 SDG#: DX118-12MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-098-SA6-SB-2.0-3.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355066
LLI Group # 1258175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 08/12/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD098 SDG#: DX118-12MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	19.6	B	0.0208	1.05	1
11031	12378-PeCDD	40321-76-4	101	B	0.0304	5.26	1
11031	123478-HxCDD	39227-28-6	101	B	0.0397	5.26	1
11031	123678-HxCDD	57653-85-7	101	B	0.0400	5.26	1
11031	123789-HxCDD	19408-74-3	101	B	0.0364	5.26	1
11031	1234678-HpCDD	35822-46-9	97.7	B	0.0347	5.26	1
11031	OCDD	3268-87-9	203	B	0.0314	10.5	1
11031	2378-TCDF	51207-31-9	20.8		0.0266	1.05	1
11031	12378-PeCDF	57117-41-6	101	B	0.0233	5.26	1
11031	23478-PeCDF	57117-31-4	101	B	0.0247	5.26	1
11031	123478-HxCDF	70648-26-9	102	B	0.0437	5.26	1
11031	123678-HxCDF	57117-44-9	101	B	0.0384	5.26	1
11031	123789-HxCDF	72918-21-9	99.3	B	0.0498	5.26	1
11031	234678-HxCDF	60851-34-5	103	B	0.0427	5.26	1
11031	1234678-HpCDF	67562-39-4	102	B	0.0448	5.26	1
11031	1234789-HpCDF	55673-89-7	101	B	0.0760	5.26	1
11031	OCDF	39001-02-0	201	B	0.0523	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	57	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-098-SA6-SB-2.0-3.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355066
LLI Group # 1258175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 08/12/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD098 SDG#: DX118-12MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-098-SA6-SB-2.0-3.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355066
LLI Group # 1258175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 08/12/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD098 SDG#: DX118-12MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11216001	08/07/2011 15:36	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11216001	08/04/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401B	07/28/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-098-SA6-SB-2.0-3.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355067
LLI Group # 1258175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 08/12/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD098 SDG#: DX118-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-098-SA6-SB-2.0-3.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355067
LLI Group # 1258175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 08/12/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD098 SDG#: DX118-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	19.2	B	0.0181	1.03	1
11031	12378-PeCDD	40321-76-4	99.9	B	0.0418	5.17	1
11031	123478-HxCDD	39227-28-6	101	B	0.0308	5.17	1
11031	123678-HxCDD	57653-85-7	99.3	B	0.0312	5.17	1
11031	123789-HxCDD	19408-74-3	96.9	B	0.0286	5.17	1
11031	1234678-HpCDD	35822-46-9	98.7	B	0.0373	5.17	1
11031	OCDD	3268-87-9	198	B	0.0285	10.3	1
11031	2378-TCDF	51207-31-9	20.7		0.0389	1.03	1
11031	12378-PeCDF	57117-41-6	97.7	B	0.0288	5.17	1
11031	23478-PeCDF	57117-31-4	99.8	B	0.0315	5.17	1
11031	123478-HxCDF	70648-26-9	101	B	0.0525	5.17	1
11031	123678-HxCDF	57117-44-9	98.2	B	0.0424	5.17	1
11031	123789-HxCDF	72918-21-9	101	B	0.0594	5.17	1
11031	234678-HxCDF	60851-34-5	100	B	0.0448	5.17	1
11031	1234678-HpCDF	67562-39-4	100	B	0.0461	5.17	1
11031	1234789-HpCDF	55673-89-7	101	B	0.0827	5.17	1
11031	OCDF	39001-02-0	200	B	0.0397	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	55	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-098-SA6-SB-2.0-3.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355067
LLI Group # 1258175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 08/12/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD098 SDG#: DX118-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-098-SA6-SB-2.0-3.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA6-SB-2.0-3.0

LLI Sample # SW 6355067
LLI Group # 1258175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:50

Submitted: 07/26/2011 09:30
Reported: 08/12/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD098 SDG#: DX118-12MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11216001	08/07/2011 16:32	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11216001	08/04/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401B	07/28/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-289-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-289-SA6-SB-3.5-4.5

LLI Sample # SW 6355068
LLI Group # 1258175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 08:30

Submitted: 07/26/2011 09:30
Reported: 08/12/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD289 SDG#: DX118-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-289-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-289-SA6-SB-3.5-4.5

LLI Sample # SW 6355068
LLI Group # 1258175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 08:30

Submitted: 07/26/2011 09:30
Reported: 08/12/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD289 SDG#: DX118-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0143 U	0.0143	1.04	1
11031	12378-PeCDD	40321-76-4	0.0657 JB	0.0176	5.18	1
11031	123478-HxCDD	39227-28-6	0.0402 JBQ	0.0138	5.18	1
11031	123678-HxCDD	57653-85-7	0.0537 JB	0.0145	5.18	1
11031	123789-HxCDD	19408-74-3	0.0812 JB	0.0140	5.18	1
11031	1234678-HpCDD	35822-46-9	0.451 JB	0.0197	5.18	1
11031	OCDD	3268-87-9	1.18 JB	0.0201	10.4	1
11031	2378-TCDF	51207-31-9	0.0168 JQ	0.0133	1.04	1
11031	12378-PeCDF	57117-41-6	0.0686 JBQ	0.0123	5.18	1
11031	23478-PeCDF	57117-31-4	0.0887 JB	0.0139	5.18	1
11031	123478-HxCDF	70648-26-9	0.0655 JBQ	0.0123	5.18	1
11031	123678-HxCDF	57117-44-9	0.0395 JBQ	0.00980	5.18	1
11031	123789-HxCDF	72918-21-9	0.108 JB	0.0143	5.18	1
11031	234678-HxCDF	60851-34-5	0.0510 JB	0.0109	5.18	1
11031	1234678-HpCDF	67562-39-4	0.0839 JBQ	0.0154	5.18	1
11031	1234789-HpCDF	55673-89-7	0.0922 JB	0.0327	5.18	1
11031	OCDF	39001-02-0	0.223 JB	0.0244	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	48	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-289-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-289-SA6-SB-3.5-4.5

LLI Sample # SW 6355068
LLI Group # 1258175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 08:30

Submitted: 07/26/2011 09:30
Reported: 08/12/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD289 SDG#: DX118-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-289-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-289-SA6-SB-3.5-4.5

LLI Sample # SW 6355068
LLI Group # 1258175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 08:30

Submitted: 07/26/2011 09:30
Reported: 08/12/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD289 SDG#: DX118-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11216001	08/07/2011 17:29	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11216001	08/04/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401B	07/28/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP07-SA6-QC-072511 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA6-QC-072511

LLI Sample # SW 6355069
LLI Group # 1258175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:00

Submitted: 07/26/2011 09:30
Reported: 08/12/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SDDP7 SDG#: DX118-14FD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP07-SA6-QC-072511 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA6-QC-072511

LLI Sample # SW 6355069
LLI Group # 1258175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:00

Submitted: 07/26/2011 09:30
Reported: 08/12/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SDDP7 SDG#: DX118-14FD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0208 JB	0.0117	1.05	1
11031	12378-PeCDD	40321-76-4	0.0555 JBQ	0.0140	5.24	1
11031	123478-HxCDD	39227-28-6	0.0234 JBQ	0.0124	5.24	1
11031	123678-HxCDD	57653-85-7	0.0423 JB	0.0125	5.24	1
11031	123789-HxCDD	19408-74-3	0.0424 JB	0.0126	5.24	1
11031	1234678-HpCDD	35822-46-9	0.492 JB	0.0188	5.24	1
11031	OCDD	3268-87-9	2.82 JB	0.0194	10.5	1
11031	2378-TCDF	51207-31-9	0.0104 U	0.0104	1.05	1
11031	12378-PeCDF	57117-41-6	0.0518 JB	0.0110	5.24	1
11031	23478-PeCDF	57117-31-4	0.0766 JBQ	0.0126	5.24	1
11031	123478-HxCDF	70648-26-9	0.0407 JBQ	0.00948	5.24	1
11031	123678-HxCDF	57117-44-9	0.0343 JB	0.00745	5.24	1
11031	123789-HxCDF	72918-21-9	0.0546 JB	0.0113	5.24	1
11031	234678-HxCDF	60851-34-5	0.0399 JBQ	0.00841	5.24	1
11031	1234678-HpCDF	67562-39-4	0.0595 JB	0.00682	5.24	1
11031	1234789-HpCDF	55673-89-7	0.0469 JBQ	0.0140	5.24	1
11031	OCDF	39001-02-0	0.138 JB	0.0215	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	49	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP07-SA6-QC-072511 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA6-QC-072511

LLI Sample # SW 6355069
LLI Group # 1258175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:00

Submitted: 07/26/2011 09:30
Reported: 08/12/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SDDP7 SDG#: DX118-14FD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP07-SA6-QC-072511 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA6-QC-072511

LLI Sample # SW 6355069
LLI Group # 1258175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:00

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SDDP7 SDG#: DX118-14FD*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11216001	08/07/2011 18:26	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11216001	08/04/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401B	07/28/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258175
Reported: 08/12/11 at 08:59 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11209162401B	Sample number(s): 6355065-6355069								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11216001	Sample number(s): 6355065-6355069								
2378-TCDD	0.0166 J	0.0143	1.00	ng/kg	93		67-158		
12378-PeCDD	0.0613 J	0.0168	5.00	ng/kg	98		70-142		
123478-HxCDD	0.0588 J	0.0205	5.00	ng/kg	97		70-164		
123678-HxCDD	0.0713 J	0.0210	5.00	ng/kg	98		76-134		
123789-HxCDD	0.0628 J	0.0192	5.00	ng/kg	96		64-162		
1234678-HpCDD	1.38 J	0.0210	5.00	ng/kg	95		70-140		
OCDD	8.21 J	0.0220	10.0	ng/kg	100		78-144		
2378-TCDF	0.0158 U	0.0158	1.00	ng/kg	103		75-158		
12378-PeCDF	0.0293 J	0.0104	5.00	ng/kg	96		80-134		
23478-PeCDF	0.0509 J	0.0109	5.00	ng/kg	97		68-160		
123478-HxCDF	0.0339 J	0.0108	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0222 J	0.00910	5.00	ng/kg	96		84-130		
123789-HxCDF	0.0278 J	0.0123	5.00	ng/kg	99		78-130		
234678-HxCDF	0.0248 J	0.00980	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.0477 J	0.0103	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0394 J	0.0170	5.00	ng/kg	97		78-138		
OCDF	0.131 J	0.0271	10.0	ng/kg	97		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11209162401B	Sample number(s): 6355065-6355069 BKG: P355058								
Moisture Content by 160.3						5.4	5.7	6	20
Batch number: 11216001	Sample number(s): 6355065-6355069 UNSPK: 6355065								
2378-TCDD	93	93	67-158	2	25				
12378-PeCDD	96	97	70-142	1	25				
123478-HxCDD	96	98	70-164	0	25				
123678-HxCDD	96	96	76-134	1	25				
123789-HxCDD	96	94	64-162	4	25				
1234678-HpCDD	86	89	70-140	1	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258175
Reported: 08/12/11 at 08:59 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
OCDD	52*	51*	78-144	2	25				
2378-TCDF	98	100	75-158	0	25				
12378-PeCDF	95	94	80-134	3	25				
23478-PeCDF	96	96	68-160	1	25				
123478-HxCDF	97	97	72-134	2	25				
123678-HxCDF	96	95	84-130	3	25				
123789-HxCDF	94	97	78-130	1	25				
234678-HxCDF	98	97	70-156	3	25				
1234678-HpCDF	96	96	82-122	2	25				
1234789-HpCDF	96	98	78-138	0	25				
OCDF	94	95	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11216001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6355065	78	82	85	85	87	86
6355066	71	72	71	81	73	69
6355067	70	68	68	82	78	62
6355068	68	68	63	78	67	56
6355069	67	67	67	81	71	57
Blank	76	85	80	92	85	76
MS	71	72	71	81	73	69
MSD	70	68	68	82	78	62
OPR	65	67	62	71	61	53
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6355065	86	79	76	81	85	85
6355066	91	61	57	75	81	77
6355067	94	58	55	76	84	82
6355068	97	52	48	78	77	76
6355069	98	53	49	75	78	79
Blank	113	75	75	92	92	90
MS	91	61	57	75	81	77
MSD	94	58	55	76	84	82
OPR	82	52	51	74	69	67
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6355065	85	82	79	82	82

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258175
Reported: 08/12/11 at 08:59 AM

Surrogate Quality Control

6355066	78	76	72	68	82
6355067	82	76	76	66	79
6355068	77	76	75	63	82
6355069	78	77	75	61	78
Blank	92	96	101	72	94
MS	78	76	72	68	82
MSD	82	76	76	66	79
OPR	68	68	68	61	76
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1258175 6355065-69

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-098-SA6-SB-2.5MS	7/25/11	0945	SOIL	NONE	15-Encores										X	X	X										MS/MSD
SL-098-SA6-SB-2.0-3.0MS	7/25/11	0950	SOIL	NONE	9-16 oz Jars	X	X	X	X	X	X	X	X					X						X	X	X	MS/MSD
SL-289-SA6-SB-4.0	7/25/11	0825	SOIL	NONE	1-Encores												X										
SL-289-SA6-SB-3.5-4.5	7/25/11	0830	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
DUP07-SA6-QC-072511	7/25/11	1000	SOIL	NONE	5-Encore										X	X	X										
DUP07-SA6-QC-072511	7/25/11	1000	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X						X	X	X	
TB-072511	7/25/11	0800	WATER	NONE	4-40mL Vials										X	X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	07/25/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
	7/26/11 / 0930	8754 3341 0690, 0369, 0370	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 16, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/26/2011
Group Number: 1258179
SDG: DX119
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-190-SA6-SS-0.0-0.5 Soil	6355078
SL-192-SA6-SS-0.0-0.5 Soil	6355079
SL-193-SA6-SS-0.0-0.5 Soil	6355080
SL-235-SA6-SS-0.0-0.5 Soil	6355081
SL-236-SA6-SS-0.0-0.5 Soil	6355082
SL-245-SA6-SS-0.0-0.5 Soil	6355083
SL-253-SA6-SS-0.0-0.5 Soil	6355084
SL-254-SA6-SS-0.0-0.5 Soil	6355085
SL-255-SA6-SS-0.0-0.5 Soil	6355086
SL-256-SA6-SS-0.0-0.5 Soil	6355087
SL-268-SA6-SS-0.0-0.5 Soil	6355088

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-190-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-SA6-SS-0.0-0.5

LLI Sample # SW 6355078
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 15:51

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD190 SDG#: DX119-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-190-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-SA6-SS-0.0-0.5

LLI Sample # SW 6355078
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 15:51

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD190 SDG#: DX119-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.126	JB	0.0361	0.989	1
11031	12378-PeCDD	40321-76-4	0.643	JB	0.102	4.95	1
11031	123478-HxCDD	39227-28-6	0.875	JB	0.0572	4.95	1
11031	123678-HxCDD	57653-85-7	3.10	JB	0.0576	4.95	1
11031	123789-HxCDD	19408-74-3	1.73	JB	0.0650	4.95	1
11031	1234678-HpCDD	35822-46-9	86.0	B	0.0773	4.95	1
11031	OCDD	3268-87-9	579	B	0.0355	9.89	1
11031	2378-TCDF	51207-31-9	2.45	C	0.282	0.989	1
11031	12378-PeCDF	57117-41-6	28.0	B	0.116	4.95	1
11031	23478-PeCDF	57117-31-4	2.85	JB	0.115	4.95	1
11031	123478-HxCDF	70648-26-9	9.45	B	0.100	4.95	1
11031	123678-HxCDF	57117-44-9	1.21	JB	0.0887	4.95	1
11031	123789-HxCDF	72918-21-9	0.446	JB	0.103	4.95	1
11031	234678-HxCDF	60851-34-5	1.32	JB	0.0908	4.95	1
11031	1234678-HpCDF	67562-39-4	25.7	B	0.0471	4.95	1
11031	1234789-HpCDF	55673-89-7	1.48	JB	0.0753	4.95	1
11031	OCDF	39001-02-0	101	B	0.0327	9.89	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	111	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	95	21 - 178
13C12-123478-HxCDF	87	26 - 152
13C12-123678-HxCDF	95	26 - 123
13C12-234678-HxCDF	91	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	107	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	96	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-190-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-SA6-SS-0.0-0.5

LLI Sample # SW 6355078
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 15:51

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD190 SDG#: DX119-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-190-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-SA6-SS-0.0-0.5

LLI Sample # SW 6355078
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 15:51

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD190 SDG#: DX119-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11217001	08/09/2011 19:08	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11217001	08/05/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-192-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA6-SS-0.0-0.5

LLI Sample # SW 6355079
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 15:23

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD192 SDG#: DX119-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-192-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA6-SS-0.0-0.5

LLI Sample # SW 6355079
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 15:23

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD192 SDG#: DX119-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0371	JBQ	0.0209	1.01	1
11031	12378-PeCDD	40321-76-4	0.188	JB	0.0340	5.03	1
11031	123478-HxCDD	39227-28-6	0.204	JB	0.0371	5.03	1
11031	123678-HxCDD	57653-85-7	0.758	JB	0.0377	5.03	1
11031	123789-HxCDD	19408-74-3	0.543	JB	0.0365	5.03	1
11031	1234678-HpCDD	35822-46-9	14.2	B	0.0387	5.03	1
11031	OCDD	3268-87-9	140	B	0.0240	10.1	1
11031	2378-TCDF	51207-31-9	0.245	J	0.0494	1.01	1
11031	12378-PeCDF	57117-41-6	4.11	JB	0.0396	5.03	1
11031	23478-PeCDF	57117-31-4	0.418	JB	0.0374	5.03	1
11031	123478-HxCDF	70648-26-9	0.353	JB	0.0346	5.03	1
11031	123678-HxCDF	57117-44-9	0.271	JB	0.0312	5.03	1
11031	123789-HxCDF	72918-21-9	0.131	JBQ	0.0358	5.03	1
11031	234678-HxCDF	60851-34-5	0.234	JB	0.0289	5.03	1
11031	1234678-HpCDF	67562-39-4	3.25	JB	0.0269	5.03	1
11031	1234789-HpCDF	55673-89-7	0.241	JB	0.0337	5.03	1
11031	OCDF	39001-02-0	6.11	JB	0.0207	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	93	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	105	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	92	21 - 178
13C12-123478-HxCDF	88	26 - 152
13C12-123678-HxCDF	94	26 - 123
13C12-234678-HxCDF	101	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	104	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-192-SA6-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-192-SA6-SS-0.0-0.5

LLI Sample # SW 6355079
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 15:23

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD192 SDG#: DX119-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-192-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA6-SS-0.0-0.5

LLI Sample # SW 6355079
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 15:23

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD192 SDG#: DX119-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11217001	08/09/2011 20:05	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11217001	08/05/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-193-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA6-SS-0.0-0.5

LLI Sample # SW 6355080
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:56

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD193 SDG#: DX119-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-193-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA6-SS-0.0-0.5

LLI Sample # SW 6355080
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:56

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD193 SDG#: DX119-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0194	U	0.0194	0.984	1
11031	12378-PeCDD	40321-76-4	0.104	JB	0.0239	4.92	1
11031	123478-HxCDD	39227-28-6	0.100	JB	0.0379	4.92	1
11031	123678-HxCDD	57653-85-7	0.500	JB	0.0377	4.92	1
11031	123789-HxCDD	19408-74-3	0.338	JB	0.0349	4.92	1
11031	1234678-HpCDD	35822-46-9	5.72	B	0.0351	4.92	1
11031	OCDD	3268-87-9	46.4	B	0.0214	9.84	1
11031	2378-TCDF	51207-31-9	0.165	J	0.0360	0.984	1
11031	12378-PeCDF	57117-41-6	0.433	JB	0.0198	4.92	1
11031	23478-PeCDF	57117-31-4	0.198	JB	0.0211	4.92	1
11031	123478-HxCDF	70648-26-9	0.167	JB	0.0277	4.92	1
11031	123678-HxCDF	57117-44-9	0.146	JB	0.0245	4.92	1
11031	123789-HxCDF	72918-21-9	0.113	JB	0.0245	4.92	1
11031	234678-HxCDF	60851-34-5	0.147	JBQ	0.0245	4.92	1
11031	1234678-HpCDF	67562-39-4	1.73	JB	0.0142	4.92	1
11031	1234789-HpCDF	55673-89-7	0.154	JBQ	0.0244	4.92	1
11031	OCDF	39001-02-0	2.87	JB	0.0218	9.84	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	107	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	85	26 - 152
13C12-123678-HxCDF	94	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	98	29 - 147
13C12-1234678-HpCDF	113	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	86	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-193-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA6-SS-0.0-0.5

LLI Sample # SW 6355080
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:56

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD193 SDG#: DX119-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-193-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA6-SS-0.0-0.5

LLI Sample # SW 6355080
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:56

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD193 SDG#: DX119-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11217001	08/09/2011 21:01	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11217001	08/05/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-235-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-235-SA6-SS-0.0-0.5

LLI Sample # SW 6355081
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 08:15

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD235 SDG#: DX119-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-235-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-235-SA6-SS-0.0-0.5

LLI Sample # SW 6355081
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 08:15

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD235 SDG#: DX119-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0125 U	0.0125	0.506	1
11031	12378-PeCDD	40321-76-4	0.0711 JBQ	0.0160	2.53	1
11031	123478-HxCDD	39227-28-6	0.0681 JB	0.0208	2.53	1
11031	123678-HxCDD	57653-85-7	0.222 JB	0.0214	2.53	1
11031	123789-HxCDD	19408-74-3	0.231 JB	0.0192	2.53	1
11031	1234678-HpCDD	35822-46-9	3.33 B	0.0188	2.53	1
11031	OCDD	3268-87-9	40.0 B	0.0114	5.06	1
11031	2378-TCDF	51207-31-9	0.0827 JQ	0.0174	0.506	1
11031	12378-PeCDF	57117-41-6	0.162 JB	0.00963	2.53	1
11031	23478-PeCDF	57117-31-4	0.183 JBQ	0.0104	2.53	1
11031	123478-HxCDF	70648-26-9	0.0724 JBQ	0.0149	2.53	1
11031	123678-HxCDF	57117-44-9	0.0682 JBQ	0.0127	2.53	1
11031	123789-HxCDF	72918-21-9	0.115 JB	0.0157	2.53	1
11031	234678-HxCDF	60851-34-5	0.0928 JB	0.0124	2.53	1
11031	1234678-HpCDF	67562-39-4	0.712 JB	0.00690	2.53	1
11031	1234789-HpCDF	55673-89-7	0.0839 JBQ	0.0134	2.53	1
11031	OCDF	39001-02-0	2.00 JB	0.0156	5.06	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	112	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	103	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	92	26 - 123
13C12-234678-HxCDF	92	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	125	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	80	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-235-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-235-SA6-SS-0.0-0.5

LLI Sample # SW 6355081
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 08:15

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD235 SDG#: DX119-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-235-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-235-SA6-SS-0.0-0.5

LLI Sample # SW 6355081
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 08:15

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD235 SDG#: DX119-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11217001	08/09/2011 21:58	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11217001	08/05/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401B	07/28/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-236-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-236-SA6-SS-0.0-0.5

LLI Sample # SW 6355082
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 07:52

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD236 SDG#: DX119-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-236-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-236-SA6-SS-0.0-0.5

LLI Sample # SW 6355082
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 07:52

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD236 SDG#: DX119-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0136 U	0.0136	0.503	1
11031	12378-PeCDD	40321-76-4	0.0916 JBQ	0.0154	2.52	1
11031	123478-HxCDD	39227-28-6	0.0752 JBQ	0.0239	2.52	1
11031	123678-HxCDD	57653-85-7	0.234 JB	0.0249	2.52	1
11031	123789-HxCDD	19408-74-3	0.215 JB	0.0228	2.52	1
11031	1234678-HpCDD	35822-46-9	4.45 B	0.0215	2.52	1
11031	OCDD	3268-87-9	52.6 B	0.0133	5.03	1
11031	2378-TCDF	51207-31-9	0.0949 JQ	0.0187	0.503	1
11031	12378-PeCDF	57117-41-6	0.197 JBQ	0.0122	2.52	1
11031	23478-PeCDF	57117-31-4	0.221 JBQ	0.0138	2.52	1
11031	123478-HxCDF	70648-26-9	0.0877 JBQ	0.0164	2.52	1
11031	123678-HxCDF	57117-44-9	0.0886 JB	0.0133	2.52	1
11031	123789-HxCDF	72918-21-9	0.0614 JBQ	0.0182	2.52	1
11031	234678-HxCDF	60851-34-5	0.110 JBQ	0.0149	2.52	1
11031	1234678-HpCDF	67562-39-4	0.970 JB	0.00838	2.52	1
11031	1234789-HpCDF	55673-89-7	0.105 JBQ	0.0171	2.52	1
11031	OCDF	39001-02-0	2.76 JB	0.0170	5.03	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	113	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	103	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	85	26 - 152
13C12-123678-HxCDF	98	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	129	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	77	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-236-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-236-SA6-SS-0.0-0.5

LLI Sample # SW 6355082
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 07:52

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD236 SDG#: DX119-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-236-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-236-SA6-SS-0.0-0.5

LLI Sample # SW 6355082
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 07:52

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD236 SDG#: DX119-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11217001	08/09/2011 22:55	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11217001	08/05/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11209162401B	07/28/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-245-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA6-SS-0.0-0.5

LLI Sample # SW 6355083
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 11:39

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD245 SDG#: DX119-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.98	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-245-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA6-SS-0.0-0.5

LLI Sample # SW 6355083
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 11:39

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD245 SDG#: DX119-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0273	JB	0.0110	0.498	1
11031	12378-PeCDD	40321-76-4	0.109	JBQ	0.0137	2.49	1
11031	123478-HxCDD	39227-28-6	0.0838	JBQ	0.0185	2.49	1
11031	123678-HxCDD	57653-85-7	0.374	JB	0.0190	2.49	1
11031	123789-HxCDD	19408-74-3	0.267	JB	0.0173	2.49	1
11031	1234678-HpCDD	35822-46-9	3.40	B	0.0155	2.49	1
11031	OCDD	3268-87-9	23.3	B	0.0131	4.98	1
11031	2378-TCDF	51207-31-9	0.151	J	0.0187	0.498	1
11031	12378-PeCDF	57117-41-6	0.308	JB	0.0103	2.49	1
11031	23478-PeCDF	57117-31-4	0.206	JB	0.0121	2.49	1
11031	123478-HxCDF	70648-26-9	0.171	JB	0.0181	2.49	1
11031	123678-HxCDF	57117-44-9	0.162	JB	0.0141	2.49	1
11031	123789-HxCDF	72918-21-9	0.100	JB	0.0219	2.49	1
11031	234678-HxCDF	60851-34-5	0.166	JB	0.0164	2.49	1
11031	1234678-HpCDF	67562-39-4	1.44	JB	0.00525	2.49	1
11031	1234789-HpCDF	55673-89-7	0.143	JBQ	0.0135	2.49	1
11031	OCDF	39001-02-0	2.63	JB	0.0157	4.98	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	107	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	105	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	99	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	138	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	67	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-245-SA6-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA6-SS-0.0-0.5

LLI Sample # SW 6355083
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 11:39

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD245 SDG#: DX119-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-245-SA6-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA6-SS-0.0-0.5

LLI Sample # SW 6355083
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 11:39

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD245 SDG#: DX119-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11217001	08/09/2011 23:51	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11217001	08/05/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-253-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA6-SS-0.0-0.5

LLI Sample # SW 6355084
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 14:21

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD253 SDG#: DX119-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.79	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-253-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA6-SS-0.0-0.5

LLI Sample # SW 6355084
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 14:21

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD253 SDG#: DX119-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0840	JB	0.0209	1.01	1
11031	12378-PeCDD	40321-76-4	0.267	JB	0.0261	5.03	1
11031	123478-HxCDD	39227-28-6	0.171	JBQ	0.0381	5.03	1
11031	123678-HxCDD	57653-85-7	0.587	JB	0.0398	5.03	1
11031	123789-HxCDD	19408-74-3	0.342	JB	0.0343	5.03	1
11031	1234678-HpCDD	35822-46-9	5.84	B	0.0288	5.03	1
11031	OCDD	3268-87-9	33.9	B	0.0216	10.1	1
11031	2378-TCDF	51207-31-9	0.200	J	0.0263	1.01	1
11031	12378-PeCDF	57117-41-6	0.371	JB	0.0161	5.03	1
11031	23478-PeCDF	57117-31-4	0.322	JBQ	0.0177	5.03	1
11031	123478-HxCDF	70648-26-9	0.293	JBQ	0.0325	5.03	1
11031	123678-HxCDF	57117-44-9	0.252	JB	0.0256	5.03	1
11031	123789-HxCDF	72918-21-9	0.218	JB	0.0403	5.03	1
11031	234678-HxCDF	60851-34-5	0.285	JB	0.0300	5.03	1
11031	1234678-HpCDF	67562-39-4	2.40	JB	0.0103	5.03	1
11031	1234789-HpCDF	55673-89-7	0.255	JB	0.0232	5.03	1
11031	OCDF	39001-02-0	3.99	JB	0.0315	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	105	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	95	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	114	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-253-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA6-SS-0.0-0.5

LLI Sample # SW 6355084
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 14:21

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD253 SDG#: DX119-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-253-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA6-SS-0.0-0.5

LLI Sample # SW 6355084
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 14:21

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD253 SDG#: DX119-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11217001	08/10/2011 03:51	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11217001	08/05/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-254-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA6-SS-0.0-0.5

LLI Sample # SW 6355085
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 13:45

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD254 SDG#: DX119-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.76	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-254-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA6-SS-0.0-0.5

LLI Sample # SW 6355085
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 13:45

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD254 SDG#: DX119-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0277	JB	0.0228	0.984	1
11031	12378-PeCDD	40321-76-4	0.168	JBQ	0.0304	4.92	1
11031	123478-HxCDD	39227-28-6	0.174	JBQ	0.0498	4.92	1
11031	123678-HxCDD	57653-85-7	0.819	JB	0.0493	4.92	1
11031	123789-HxCDD	19408-74-3	0.655	JBQ	0.0462	4.92	1
11031	1234678-HpCDD	35822-46-9	8.16	B	0.0412	4.92	1
11031	OCDD	3268-87-9	63.0	B	0.0254	9.84	1
11031	2378-TCDF	51207-31-9	0.376	J	0.0523	0.984	1
11031	12378-PeCDF	57117-41-6	0.786	JB	0.0279	4.92	1
11031	23478-PeCDF	57117-31-4	0.503	JB	0.0285	4.92	1
11031	123478-HxCDF	70648-26-9	0.296	JBQ	0.0338	4.92	1
11031	123678-HxCDF	57117-44-9	0.336	JB	0.0320	4.92	1
11031	123789-HxCDF	72918-21-9	0.200	JB	0.0356	4.92	1
11031	234678-HxCDF	60851-34-5	0.244	JB	0.0336	4.92	1
11031	1234678-HpCDF	67562-39-4	3.10	JB	0.0179	4.92	1
11031	1234789-HpCDF	55673-89-7	0.237	JB	0.0235	4.92	1
11031	OCDF	39001-02-0	5.97	JB	0.0207	9.84	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	93	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	96	32 - 141
13C12-123678-HxCDD	96	28 - 130
13C12-123789-HxCDD	97	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	121	17 - 157
13C12-2378-TCDF	98	24 - 169
13C12-12378-PeCDF	108	24 - 185
13C12-23478-PeCDF	99	21 - 178
13C12-123478-HxCDF	105	26 - 152
13C12-123678-HxCDF	107	26 - 123
13C12-234678-HxCDF	105	28 - 136
13C12-123789-HxCDF	103	29 - 147
13C12-1234678-HpCDF	107	28 - 143
13C12-1234789-HpCDF	91	26 - 138
13C12-OCDF	118	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-254-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA6-SS-0.0-0.5

LLI Sample # SW 6355085
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 13:45

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD254 SDG#: DX119-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-254-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA6-SS-0.0-0.5

LLI Sample # SW 6355085
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 13:45

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD254 SDG#: DX119-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11217001	08/10/2011 04:48	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11217001	08/05/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-255-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-255-SA6-SS-0.0-0.5

LLI Sample # SW 6355086
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:35

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD255 SDG#: DX119-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-255-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-255-SA6-SS-0.0-0.5

LLI Sample # SW 6355086
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:35

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD255 SDG#: DX119-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0338 JBQ	0.0236	1.01	1
11031	12378-PeCDD	40321-76-4	0.107 JBQ	0.0275	5.03	1
11031	123478-HxCDD	39227-28-6	0.118 JB	0.0422	5.03	1
11031	123678-HxCDD	57653-85-7	0.284 JB	0.0445	5.03	1
11031	123789-HxCDD	19408-74-3	0.218 JBQ	0.0385	5.03	1
11031	1234678-HpCDD	35822-46-9	4.01 JB	0.0382	5.03	1
11031	OCDD	3268-87-9	34.6 B	0.0264	10.1	1
11031	2378-TCDF	51207-31-9	0.100 JQ	0.0718	1.01	1
11031	12378-PeCDF	57117-41-6	0.464 JBQ	0.0292	5.03	1
11031	23478-PeCDF	57117-31-4	0.157 JB	0.0342	5.03	1
11031	123478-HxCDF	70648-26-9	0.222 JB	0.0315	5.03	1
11031	123678-HxCDF	57117-44-9	0.119 JB	0.0252	5.03	1
11031	123789-HxCDF	72918-21-9	0.0981 JB	0.0370	5.03	1
11031	234678-HxCDF	60851-34-5	0.115 JB	0.0270	5.03	1
11031	1234678-HpCDF	67562-39-4	1.25 JB	0.0139	5.03	1
11031	1234789-HpCDF	55673-89-7	0.145 JBQ	0.0306	5.03	1
11031	OCDF	39001-02-0	3.12 JB	0.0365	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	100	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	90	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	111	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	63	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-255-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-255-SA6-SS-0.0-0.5

LLI Sample # SW 6355086
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:35

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD255 SDG#: DX119-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-255-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-255-SA6-SS-0.0-0.5

LLI Sample # SW 6355086
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 09:35

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD255 SDG#: DX119-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11217001	08/10/2011 05:44	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11217001	08/05/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-256-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA6-SS-0.0-0.5

LLI Sample # SW 6355087
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:20

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD256 SDG#: DX119-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-256-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA6-SS-0.0-0.5

LLI Sample # SW 6355087
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:20

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD256 SDG#: DX119-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0209	U	0.0209	0.969	1
11031	12378-PeCDD	40321-76-4	0.0900	JB	0.0305	4.85	1
11031	123478-HxCDD	39227-28-6	0.0996	JB	0.0378	4.85	1
11031	123678-HxCDD	57653-85-7	0.397	JB	0.0368	4.85	1
11031	123789-HxCDD	19408-74-3	0.304	JB	0.0379	4.85	1
11031	1234678-HpCDD	35822-46-9	7.56	B	0.0363	4.85	1
11031	OCDD	3268-87-9	90.2	B	0.0244	9.69	1
11031	2378-TCDF	51207-31-9	0.162	J	0.0354	0.969	1
11031	12378-PeCDF	57117-41-6	0.749	JB	0.0195	4.85	1
11031	23478-PeCDF	57117-31-4	0.254	JB	0.0225	4.85	1
11031	123478-HxCDF	70648-26-9	0.212	JB	0.0269	4.85	1
11031	123678-HxCDF	57117-44-9	0.208	JBQ	0.0218	4.85	1
11031	123789-HxCDF	72918-21-9	0.146	JBQ	0.0338	4.85	1
11031	234678-HxCDF	60851-34-5	0.183	JB	0.0244	4.85	1
11031	1234678-HpCDF	67562-39-4	1.90	JB	0.0104	4.85	1
11031	1234789-HpCDF	55673-89-7	0.233	JB	0.0250	4.85	1
11031	OCDF	39001-02-0	3.81	JB	0.0283	9.69	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	108	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	103	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	86	26 - 152
13C12-123678-HxCDF	103	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	124	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	69	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-256-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA6-SS-0.0-0.5

LLI Sample # SW 6355087
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:20

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD256 SDG#: DX119-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-256-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA6-SS-0.0-0.5

LLI Sample # SW 6355087
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 10:20

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD256 SDG#: DX119-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11217001	08/10/2011 06:41	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11217001	08/05/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-268-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-268-SA6-SS-0.0-0.5

LLI Sample # SW 6355088
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 14:53

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD268 SDG#: DX119-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.87	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-268-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-268-SA6-SS-0.0-0.5

LLI Sample # SW 6355088
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 14:53

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD268 SDG#: DX119-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.129	JB	0.0258	0.999	1
11031	12378-PeCDD	40321-76-4	0.692	JB	0.0679	4.99	1
11031	123478-HxCDD	39227-28-6	0.912	JB	0.0457	4.99	1
11031	123678-HxCDD	57653-85-7	3.61	JB	0.0468	4.99	1
11031	123789-HxCDD	19408-74-3	2.24	JB	0.0446	4.99	1
11031	1234678-HpCDD	35822-46-9	45.7	B	0.0590	4.99	1
11031	OCDD	3268-87-9	313	B	0.0377	9.99	1
11650	2378-TCDF-Conf	51207-31-9	1.19	C	0.0933	0.999	1
11031	12378-PeCDF	57117-41-6	1.73	JB	0.0600	4.99	1
11031	23478-PeCDF	57117-31-4	1.89	JB	0.0544	4.99	1
11031	123478-HxCDF	70648-26-9	1.83	JB	0.0478	4.99	1
11031	123678-HxCDF	57117-44-9	1.51	JB	0.0451	4.99	1
11031	123789-HxCDF	72918-21-9	0.538	JB	0.0448	4.99	1
11031	234678-HxCDF	60851-34-5	1.74	JB	0.0429	4.99	1
11031	1234678-HpCDF	67562-39-4	11.9	B	0.0261	4.99	1
11031	1234789-HpCDF	55673-89-7	0.924	JB	0.0306	4.99	1
11031	OCDF	39001-02-0	15.0	B	0.0210	9.99	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-2378-TCDF-Conf	77	24 - 169
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	106	17 - 157
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	92	21 - 178
13C12-123478-HxCDF	88	26 - 152
13C12-123678-HxCDF	90	26 - 123
13C12-234678-HxCDF	96	28 - 136
13C12-123789-HxCDF	94	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	91	26 - 138
13C12-OCDF	110	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-268-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-268-SA6-SS-0.0-0.5

LLI Sample # SW 6355088
LLI Group # 1258179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/25/2011 14:53

Submitted: 07/26/2011 09:30
Reported: 08/16/2011 19:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD268 SDG#: DX119-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Suite 210
Chantilly VA 20151

SD268 SDG#: DX119-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11217001	08/10/2011 07:37	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11217001	08/12/2011 17:54	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11217001	08/05/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401A	08/10/2011 22:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258179
Reported: 08/16/11 at 07:53 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11209162401B	Sample number(s): 6355081-6355082								
Moisture Content by 160.3					100		80-120		
Batch number: 11222162401A	Sample number(s): 6355078-6355080,6355083-6355088								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11217001	Sample number(s): 6355078-6355088								
2378-TCDD	0.0271 J	0.0250	1.00	ng/kg	93		67-158		
12378-PeCDD	0.0430 J	0.0206	5.00	ng/kg	97		70-142		
123478-HxCDD	0.0904 J	0.0274	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0842 J	0.0273	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0945 J	0.0264	5.00	ng/kg	98		64-162		
1234678-HpCDD	1.47 J	0.0221	5.00	ng/kg	96		70-140		
OCDD	8.90 J	0.0279	10.0	ng/kg	101		78-144		
2378-TCDF	0.0241 U	0.0241	1.00	ng/kg	101		75-158		
2378-TCDF-Conf	0.0276 U	0.0276	1.00	ng/kg	101		75-158		
12378-PeCDF	0.0533 J	0.0133	5.00	ng/kg	98		80-134		
23478-PeCDF	0.0573 J	0.0137	5.00	ng/kg	97		68-160		
123478-HxCDF	0.0378 J	0.0102	5.00	ng/kg	99		72-134		
123678-HxCDF	0.0311 J	0.00860	5.00	ng/kg	97		84-130		
123789-HxCDF	0.0531 J	0.0120	5.00	ng/kg	96		78-130		
234678-HxCDF	0.0287 J	0.00970	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.0539 J	0.00700	5.00	ng/kg	97		82-122		
1234789-HpCDF	0.0538 J	0.0152	5.00	ng/kg	98		78-138		
OCDF	0.140 J	0.0369	10.0	ng/kg	98		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11209162401B	Sample number(s): 6355081-6355082					BKG: P355058			
Moisture Content by 160.3						5.4	5.7	6	20
Batch number: 11222162401A	Sample number(s): 6355078-6355080,6355083-6355088					BKG: P353026			
Moisture Content by 160.3						1.9	1.9	1 (1)	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258179
Reported: 08/16/11 at 07:53 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11217001	Sample number(s): 6355078-6355088 UNSPK: P356789								
2378-TCDD	94	94	67-158	3	25				
12378-PeCDD	99	99	70-142	3	25				
123478-HxCDD	96	96	70-164	2	25				
123678-HxCDD	96	96	76-134	3	25				
123789-HxCDD	94	93	64-162	1	25				
1234678-HpCDD	84	66*	70-140	11	25				
OCDD	75*	-34*	78-144	28*	25				
2378-TCDF	102	90	75-158	5	25				
2378-TCDF-Conf	102	90	75-158	5	25				
12378-PeCDF	110	106	80-134	1	25				
23478-PeCDF	93	94	68-160	3	25				
123478-HxCDF	96	99	72-134	4	25				
123678-HxCDF	97	98	84-130	3	25				
123789-HxCDF	96	97	78-130	3	25				
234678-HxCDF	95	95	70-156	3	25				
1234678-HpCDF	94	90	82-122	2	25				
1234789-HpCDF	95	90	78-138	2	25				
OCDF	106	94	63-170	8	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11217001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6355078	85	95	87	95	91	83
6355079	87	92	88	94	101	91
6355080	81	87	85	94	89	98
6355081	80	89	79	92	92	81
6355082	81	86	85	98	88	76
6355083	80	88	81	99	84	71
6355084	79	87	78	95	82	66
6355085	93	99	105	107	105	103
6355086	77	78	74	90	85	68
6355087	79	87	86	103	87	69
6355088	84	92	88	90	96	94
Blank	85	99	95	110	96	90
MS	79	83	77	83	79	75
MSD	95	104	90	101	96	89
OPR	73	89	82	96	87	87
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6355078	107	74	96	89	86	85

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258179
Reported: 08/16/11 at 07:53 PM

Surrogate Quality Control

6355079	97	87	104	85	93	90
6355080	113	75	86	86	81	81
6355081	125	70	80	86	87	84
6355082	129	70	77	85	86	83
6355083	138	60	67	84	82	80
6355084	114	56	64	85	78	75
6355085	107	91	118	91	96	96
6355086	111	56	63	74	80	77
6355087	124	60	69	85	82	84
6355088	97	91	110	84	86	86
Blank	128	68	59	98	94	96
MS	97	71	64	81	80	79
MSD	128	90	82	97	101	97
OPR	122	69	59	89	83	81
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6355078	80	84	111	84	99	
6355079	88	88	105	84	92	
6355080	88	82	107	77	99	
6355081	86	86	112	80	103	
6355082	81	84	113	79	103	
6355083	82	81	107	79	105	
6355084	80	76	105	80	99	
6355085	97	89	121	98	108	
6355086	81	71	100	77	95	
6355087	83	79	108	78	103	
6355088	87	85	106		92	77
Blank	96	89	83	84	107	85
MS	80	82	73	79	92	79
MSD	102	106	100	97	113	97
OPR	87	85	78	74	93	74
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 125817 G 35 50 78-88

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS								SS ONLY		SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-190-SA6-SS-0.0-0.5	7/25/11	1551	SOIL	NONE	1-SS Sleeve			X	X																
SL-190-SA6-SS-0.0-0.5	7/25/11	1551	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	
SL-192-SA6-SS-0.0-0.5	7/25/11	1523	SOIL	NONE	1-SS Sleeve			X	X																
SL-192-SA6-SS-0.0-0.5	7/25/11	1523	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	
SL-193-SA6-SS-0.0-0.5	7/25/11	1056	SOIL	NONE	1-SS Sleeve			X	X																
SL-193-SA6-SS-0.0-0.5	7/25/11	1056	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	
SL-235-SA6-SS-0.0-0.5	7/25/11	0815	SOIL	NONE	1-SS Sleeve			X	X																
SL-235-SA6-SS-0.0-0.5	7/25/11	0815	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X	X									
SL-236-SA6-SS-0.0-0.5	7/25/11	0752	SOIL	NONE	1-SS Sleeve			X	X																
SL-236-SA6-SS-0.0-0.5	7/25/11	0752	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X									
SL-245-SA6-SS-0.0-0.5	7/25/11	1139	SOIL	NONE	1-SS Sleeve			X	X																
SL-245-SA6-SS-0.0-0.5	7/25/11	1139	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	
SL-253-SA6-SS-0.0-0.5	7/25/11	1421	SOIL	NONE	1-SS Sleeve			X	X																
SL-253-SA6-SS-0.0-0.5	7/25/11	1421	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	
SL-254-SA6-SS-0.0-0.5	7/25/11	1345	SOIL	NONE	1-SS Sleeve			X	X																
SL-254-SA6-SS-0.0-0.5	7/25/11	1345	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	
SL-255-SA6-SS-0.0-0.5	7/25/11	0935	SOIL	NONE	1-SS Sleeve			X	X																
SL-255-SA6-SS-0.0-0.5	7/25/11	0935	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	
SL-256-SA6-SS-0.0-0.5	7/25/11	1020	SOIL	NONE	1-SS Sleeve			X	X																
SL-256-SA6-SS-0.0-0.5	7/25/11	1020	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-268-SA6-SS-0.0-0.5	7/25/11	1453	SOIL	NONE	1-SS Sleeve			X	X																
SL-268-SA6-SS-0.0-0.5	7/25/11	1358	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time 07/25/2011 / 1600	Received for Laboratory by: (*Signature*)	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 7/26/11 0930	Airbill No.(s) 8754 3341 0690, 0369, 0370	

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Wednesday, July 27, 2011 12:06 PM
To: Nicole Maljovec
Subject: RE: SSFL COC 7/25/11- collection time question for SL-268

Please use 1453. Thanks!

Did you get my request for the NaOH 500mL Poly bottles? I don't remember if I we talked about it? We are all out !

Thanks!

Pam

-----Original Message-----
From: Nicole Maljovec [mailto:nmaljovec@lancasterlabs.com]
Sent: Wednesday, July 27, 2011 9:04 AM
To: Hartman, Pamela
Subject: FW: SSFL COC 7/25/11- collection time question for SL-268

Hi Pam,
For sample SL-268-SA6-SS-0.0-0.5, there are two collection times listed, 13:53 and 14:53. Which would you like us to use?

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Monday, July 25, 2011 7:25 PM
To: Bloisa, Peggy; Burgesser, Todd; Nicole Maljovec; Zakowski, Cherie; SA Env Entry; 'Laura Rainey'
Subject: SSFL COC 7/25/11

COC for Monday 7/25/11

Thanks,

Pam

CONFIDENTIAL MATERIAL: This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If received in error, please notify sender by return e-mail and destroy all copies of the original transmission and any attachments. Thank you.

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

September 09, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/27/2011
Group Number: 1258479
SDG: DE209
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-012-SA6-SS-0.0-0.5 Soil	6356757
SL-013-SA6-SS-0.0-0.5 Soil	6356758
SL-204-SA6-SS-0.0-0.5 Soil	6356759
SL-205-SA6-SS-0.0-0.5 Soil	6356760
SL-205-SA6-SS-0.0-0.5MS Soil	6356761
SL-205-SA6-SS-0.0-0.5MSD Soil	6356762
SL-205-SA6-SS-0.0-0.5DUP Soil	6356763
SL-206-SA6-SS-0.0-0.5 Soil	6356764
SL-213-SA6-SS-0.0-0.5 Soil	6356765
SL-217-SA6-SS-0.0-0.5 Soil	6356766
SL-317-SA6-SS-0.0-0.5 Soil	6356767
SL-319-SA6-SS-0.0-0.5 Soil	6356768
DUP08-SA6-QC-072611 Soil	6356769
SL-077-SA6-SB-4.0-5.0 Soil	6356770
SL-077-SA6-SB-9.0-10.0 Soil	6356771
SL-080-SA6-SB-3.5-4.5 Soil	6356772
TB-072611 Water	6356773
EB-SA6-SS-072611 Water	6356774
SL-311-SA6-SS-0.0-0.5 Soil	6356775

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

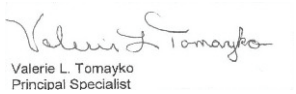
Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Valerie L. Tomayko
Principal Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-012-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA6-SS-0.0-0.5

LLI Sample # SW 6356757
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 15:02

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0901 SDG#: DE209-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Chrysene	218-01-9	20	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	350		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1

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SSFL Area IV Collocated Soil Sampling
SL-012-SA6-SS-0.0-0.5

LLI Sample # SW 6356757
LLI Group # 1258479
Account # 13013

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E0901 SDG#: DE209-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.6		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.6		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.6		5
10138	Benzo(a)anthracene	56-55-3	3.5	U	3.5	8.6		5
10138	Benzo(a)pyrene	50-32-8	4.6	J	3.5	8.6		5
10138	Benzo(b)fluoranthene	205-99-2	9.7		3.5	8.6		5
10138	Benzo(g,h,i)perylene	191-24-2	5.1	J	3.5	8.6		5
10138	Benzo(k)fluoranthene	207-08-9	3.5	U	3.5	8.6		5
10138	Dibenz(a,h)anthracene	53-70-3	3.5	U	3.5	8.6		5
10138	Fluoranthene	206-44-0	3.5	U	3.5	8.6		5
10138	Fluorene	86-73-7	3.5	U	3.5	8.6		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.5	U	3.5	8.6		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.6		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.6		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.6		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.6		5
10138	Phenanthrene	85-01-8	3.5	U	3.5	8.6		5
10138	Pyrene	129-00-0	3.5	U	3.5	8.6		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.3		1
10401	2,4-DB	94-82-6	3.3		0.64	1.8		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8		1
10401	MCPA	94-74-6	140	J	79	260		1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	260		1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18		1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory							

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E0901 SDG#: DE209-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported. Reporting limits were raised for MCPP due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.83	U	0.83	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	2.4		0.34	1.8		5
01363	p,p-DDT	50-29-3	7.5		0.34	1.8		5
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.68	U	0.68	0.68		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.25	J	0.068	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	0.12	U	0.12	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.50	U	0.50	0.50		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.047	J	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.19	U	0.19	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. The samples were injected following maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.3	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	13		0.40	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,700		6.03	19.9		1

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SSFL Area IV Collocated Soil Sampling
SL-012-SA6-SS-0.0-0.5

LLI Sample # SW 6356757
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 15:02

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E0901 SDG#: DE209-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	0.359	U	0.359	4.99		1
01650	Calcium	7440-70-2	2,290		2.49	19.9		1
01654	Iron	7439-89-6	17,500		2.60	19.9		1
01656	Lithium	7439-93-2	21.9		0.62	2.0		1
01657	Magnesium	7439-95-4	4,010		0.439	9.97		1
06958	Manganese	7439-96-5	244		0.0359	0.499		1
10145	Phosphorus	7723-14-0	357		0.349	9.97		1
01662	Potassium	7440-09-7	2,520		11.3	49.9		1
01667	Sodium	7440-23-5	112		5.93	99.7		1
07968	Strontium	7440-24-6	12.4		0.0249	0.499		1
06969	Tin	7440-31-5	2.71	J	0.319	9.97		1
06970	Titanium	7440-32-6	1,010		0.0708	0.997		1
10146	Zirconium	7440-67-7	1.86	J	0.459	4.99		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0768	U	0.0768	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.13		0.0830	0.415		2
06126	Barium	7440-39-3	68.2		0.110	0.415		2
06127	Beryllium	7440-41-7	0.409		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.126		0.0456	0.104		2
06131	Chromium	7440-47-3	11.3		0.124	0.415		2
06132	Cobalt	7440-48-4	4.19		0.0207	0.104		2
06133	Copper	7440-50-8	15.4		0.0830	0.415		2
06135	Lead	7439-92-1	8.45		0.0106	0.207		2
06138	Molybdenum	7439-98-7	0.294		0.0519	0.104		2
06139	Nickel	7440-02-0	7.94		0.104	0.415		2
06141	Selenium	7782-49-2	0.0894	J	0.0602	0.415		2
06142	Silver	7440-22-4	0.0515	J	0.0147	0.104		2
06145	Thallium	7440-28-0	0.224		0.0311	0.104		2
06148	Vanadium	7440-62-2	27.7		0.0228	0.104		2
06149	Zinc	7440-66-6	201		1.45	7.78		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0327	J	0.0070	0.0991		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48	J	0.21	1.0		1

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Analysis Report

Sample Description: SL-012-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA6-SS-0.0-0.5

LLI Sample # SW 6356757
LLI Group # 1258479
Account # 13013

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E0901 SDG#: DE209-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.50	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	3.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLD026	08/17/2011	06:33	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11217SLB026	08/10/2011	23:50	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11217SLB026	08/05/2011	14:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLD026	08/05/2011	06:15	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200019A	08/10/2011	07:31	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112170021A	08/26/2011	11:25	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112170021A	08/26/2011	11:39	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112170013A	08/08/2011	18:53	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112170021A	08/06/2011	08:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112170013A	08/05/2011	16:45	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200019A	08/08/2011	22:15	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	112135708004	08/03/2011	10:06	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112135708004	08/03/2011	10:06	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708004	08/03/2011	10:06	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112135708004	08/03/2011	10:06	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112135708004	08/03/2011	10:06	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112135708004	08/03/2011	10:06	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112135708004	08/03/2011	10:06	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112135708004	08/03/2011	10:06	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112135708004	08/03/2011	10:06	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112135708004	08/03/2011	10:06	Eric L Eby	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-012-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA6-SS-0.0-0.5

LLI Sample # SW 6356757
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 15:02

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0901 SDG#: DE209-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112135708004	08/03/2011 10:06	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112135708004	08/03/2011 10:06	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112135708004	08/03/2011 10:06	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112135708004	08/03/2011 10:06	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112131026003A	08/02/2011 23:01	David K Beck	2
06125	Arsenic	SW-846 6020	1	112131026003A	08/02/2011 23:01	David K Beck	2
06126	Barium	SW-846 6020	1	112131026003D	08/02/2011 23:01	David K Beck	2
06127	Beryllium	SW-846 6020	1	112131026003A	08/02/2011 23:01	David K Beck	2
06128	Cadmium	SW-846 6020	1	112131026003A	08/02/2011 23:01	David K Beck	2
06131	Chromium	SW-846 6020	1	112131026003A	08/02/2011 23:01	David K Beck	2
06132	Cobalt	SW-846 6020	1	112131026003A	08/02/2011 23:01	David K Beck	2
06133	Copper	SW-846 6020	1	112131026003A	08/02/2011 23:01	David K Beck	2
06135	Lead	SW-846 6020	1	112131026003A	08/02/2011 23:01	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112131026003C	08/02/2011 23:01	David K Beck	2
06139	Nickel	SW-846 6020	1	112131026003A	08/02/2011 23:01	David K Beck	2
06141	Selenium	SW-846 6020	1	112131026003B	08/02/2011 23:01	David K Beck	2
06142	Silver	SW-846 6020	1	112131026003A	08/02/2011 23:01	David K Beck	2
06145	Thallium	SW-846 6020	1	112131026003A	08/02/2011 23:01	David K Beck	2
06148	Vanadium	SW-846 6020	1	112131026003A	08/02/2011 23:01	David K Beck	2
06149	Zinc	SW-846 6020	1	112131026003A	08/03/2011 18:55	David K Beck	5
00159	Mercury	SW-846 7471A	1	112135711004	08/03/2011 08:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708004	08/02/2011 12:45	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026003	08/02/2011 13:07	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711004	08/02/2011 14:19	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621202A	08/04/2011 14:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284201A	08/04/2011 23:16	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11218243202A	08/09/2011 17:23	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621202A	08/04/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284201A	08/03/2011 16:50	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039405A	08/02/2011 18:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11218243202A	08/06/2011 09:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401A	08/05/2011 18:47	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-013-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA6-SS-0.0-0.5

LLI Sample # SW 6356758
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 14:39

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0902 SDG#: DE209-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(g,h,i)perylene	191-24-2	23	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	42	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1

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Sample Description: SL-013-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA6-SS-0.0-0.5

LLI Sample # SW 6356758
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 14:39

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0902 SDG#: DE209-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	18	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	3.4	U	3.4	8.4		5
10138	Benzo(a)pyrene	50-32-8	3.4	U	3.4	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	6.0	J	3.4	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	3.4	U	3.4	8.4		5
10138	Chrysene	218-01-9	5.0	J	1.7	8.4		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4		5
10138	Fluoranthene	206-44-0	6.8	J	3.4	8.4		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4		5
10138	Phenanthrene	85-01-8	3.4	U	3.4	8.4		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	0.94	J	0.63	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory							

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Sample Description: SL-013-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA6-SS-0.0-0.5

LLI Sample # SW 6356758
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 14:39

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0902 SDG#: DE209-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
statistical limits of 0-36%, the data is reported.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.050	J	0.034	0.17		1
01363	Chlordane	57-74-9	2.3	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.74		0.067	0.34		1
01363	p,p-DDT	50-29-3	3.0		0.33	1.7		5
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.45		0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.22	J	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.13	U	0.13	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.47		0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.040	J	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.36	U	0.36	0.36		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. The samples were injected following maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,400		5.99	19.8		1
07914	Boron	7440-42-8	0.357	U	0.357	4.95		1
01650	Calcium	7440-70-2	2,600		2.48	19.8		1
01654	Iron	7439-89-6	18,100		2.58	19.8		1
01656	Lithium	7439-93-2	23.0		0.61	2.0		1
01657	Magnesium	7439-95-4	4,880		0.436	9.90		1

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Sample Description: SL-013-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA6-SS-0.0-0.5

LLI Sample # SW 6356758
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 14:39

Submitted: 07/27/2011 09:50
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0902 SDG#: DE209-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	245		0.0357	0.495		1
10145	Phosphorus	7723-14-0	395		0.347	9.90		1
01662	Potassium	7440-09-7	2,540		11.2	49.5		1
01667	Sodium	7440-23-5	91.9	J	5.89	99.0		1
07968	Strontium	7440-24-6	10.7		0.0248	0.495		1
06969	Tin	7440-31-5	2.41	J	0.317	9.90		1
06970	Titanium	7440-32-6	1,050		0.0703	0.990		1
10146	Zirconium	7440-67-7	2.21	J	0.456	4.95		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0719	U	0.0719	0.194		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.98		0.0777	0.389		2
06126	Barium	7440-39-3	67.6		0.103	0.389		2
06127	Beryllium	7440-41-7	0.387		0.0155	0.0971		2
06128	Cadmium	7440-43-9	0.338		0.0427	0.0971		2
06131	Chromium	7440-47-3	15.4		0.117	0.389		2
06132	Cobalt	7440-48-4	5.36		0.0194	0.0971		2
06133	Copper	7440-50-8	9.07		0.0777	0.389		2
06135	Lead	7439-92-1	17.6		0.0099	0.194		2
06138	Molybdenum	7439-98-7	0.345		0.0486	0.0971		2
06139	Nickel	7440-02-0	11.3		0.0971	0.389		2
06141	Selenium	7782-49-2	0.0959	J	0.0563	0.389		2
06142	Silver	7440-22-4	0.0497	J	0.0138	0.0971		2
06145	Thallium	7440-28-0	0.214		0.0291	0.0971		2
06148	Vanadium	7440-62-2	31.9		0.0214	0.0971		2
06149	Zinc	7440-66-6	154		0.544	2.91		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0341	J	0.0070	0.0997		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.99	J	0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.38		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-013-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA6-SS-0.0-0.5

LLI Sample # SW 6356758
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 14:39

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0902 SDG#: DE209-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	1.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLD026	08/17/2011 06:58	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11217SLB026	08/11/2011 00:22	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11217SLB026	08/05/2011 14:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLD026	08/05/2011 06:15	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200019A	08/10/2011 07:58	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112170021A	08/26/2011 09:56	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112170021A	08/30/2011 02:27	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112170013A	08/08/2011 19:11	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112170021A	08/06/2011 08:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112170013A	08/05/2011 16:45	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200019A	08/08/2011 22:15	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	112135708004	08/03/2011 10:18	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112135708004	08/03/2011 10:18	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708004	08/03/2011 10:18	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112135708004	08/03/2011 10:18	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112135708004	08/03/2011 10:18	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112135708004	08/03/2011 10:18	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112135708004	08/03/2011 10:18	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112135708004	08/03/2011 10:18	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112135708004	08/03/2011 10:18	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112135708004	08/03/2011 10:18	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112135708004	08/03/2011 10:18	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112135708004	08/03/2011 10:18	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112135708004	08/03/2011 10:18	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112135708004	08/03/2011 10:18	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112131026003A	08/02/2011 23:04	David K Beck	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-013-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA6-SS-0.0-0.5

LLI Sample # SW 6356758
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 14:39

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0902 SDG#: DE209-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112131026003A	08/02/2011 23:04	David K Beck	2
06126	Barium	SW-846 6020	1	112131026003D	08/02/2011 23:04	David K Beck	2
06127	Beryllium	SW-846 6020	1	112131026003A	08/02/2011 23:04	David K Beck	2
06128	Cadmium	SW-846 6020	1	112131026003A	08/02/2011 23:04	David K Beck	2
06131	Chromium	SW-846 6020	1	112131026003A	08/02/2011 23:04	David K Beck	2
06132	Cobalt	SW-846 6020	1	112131026003A	08/02/2011 23:04	David K Beck	2
06133	Copper	SW-846 6020	1	112131026003A	08/02/2011 23:04	David K Beck	2
06135	Lead	SW-846 6020	1	112131026003A	08/02/2011 23:04	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112131026003C	08/02/2011 23:04	David K Beck	2
06139	Nickel	SW-846 6020	1	112131026003A	08/02/2011 23:04	David K Beck	2
06141	Selenium	SW-846 6020	1	112131026003B	08/02/2011 23:04	David K Beck	2
06142	Silver	SW-846 6020	1	112131026003A	08/02/2011 23:04	David K Beck	2
06145	Thallium	SW-846 6020	1	112131026003A	08/02/2011 23:04	David K Beck	2
06148	Vanadium	SW-846 6020	1	112131026003A	08/02/2011 23:04	David K Beck	2
06149	Zinc	SW-846 6020	1	112131026003A	08/02/2011 23:04	David K Beck	2
00159	Mercury	SW-846 7471A	1	112135711004	08/03/2011 08:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708004	08/02/2011 12:45	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026003	08/02/2011 13:07	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711004	08/02/2011 14:19	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621202A	08/04/2011 14:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284201A	08/05/2011 00:02	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11218243202A	08/09/2011 17:38	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621202A	08/04/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284201A	08/03/2011 16:50	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039405A	08/02/2011 18:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11218243202A	08/06/2011 09:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401A	08/05/2011 18:47	Scott W Freisher	1

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Analysis Report

Sample Description: SL-204-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA6-SS-0.0-0.5

LLI Sample # SW 6356759
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:00

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0903 SDG#: DE209-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	16.7	U	16.7	33.4		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-204-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA6-SS-0.0-0.5

LLI Sample # SW 6356759
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:00

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0903 SDG#: DE209-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	1.1	J	0.34	1.7		1
10138	Anthracene	120-12-7	3.1		0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	9.2		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	8.5		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	23		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	4.2		0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	9.1		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	7.3	J	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	16	J	6.1	18		1
10138	Chrysene	218-01-9	23		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	1.3	J	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	28		6.1	18		1
10138	Fluoranthene	206-44-0	46		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.2		0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.89	J	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	11	J	6.1	18		1
10138	Phenanthrene	85-01-8	16		0.67	1.7		1
10138	Pyrene	129-00-0	29		0.67	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-204-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA6-SS-0.0-0.5

LLI Sample # SW 6356759
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:00

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0903 SDG#: DE209-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	7.1		0.63	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	130	U	130	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised for MCPA due to interference from the sample matrix.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	1,200	U	1,200	3,000		1

Reporting limits were raised due to interference from the sample matrix.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-204-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA6-SS-0.0-0.5

LLI Sample # SW 6356759
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:00

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0903 SDG#: DE209-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.070	U	0.070	0.34		1
01363	p,p-DDT	50-29-3	0.29	U	0.29	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.071	U	0.071	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.39		0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. The samples were injected following maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	4.3		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	4.3		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-204-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA6-SS-0.0-0.5

LLI Sample # SW 6356759
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:00

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0903 SDG#: DE209-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	0.90	J	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	6.5		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	16		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,500		5.88	19.4		1
07914	Boron	7440-42-8	2.04	J	0.350	4.86		1
01650	Calcium	7440-70-2	2,380		2.43	19.4		1
01654	Iron	7439-89-6	17,600		2.53	19.4		1
01656	Lithium	7439-93-2	20.3		0.60	1.9		1
01657	Magnesium	7439-95-4	3,790		0.427	9.71		1
06958	Manganese	7439-96-5	271		0.0350	0.486		1
10145	Phosphorus	7723-14-0	302		0.340	9.71		1
01662	Potassium	7440-09-7	3,500		11.0	48.6		1
01667	Sodium	7440-23-5	62.1	J	5.78	97.1		1
07968	Strontium	7440-24-6	21.1		0.0243	0.486		1
06969	Tin	7440-31-5	1.87	J	0.311	9.71		1
06970	Titanium	7440-32-6	995		0.0690	0.971		1
10146	Zirconium	7440-67-7	2.69	J	0.447	4.86		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.174	J	0.0719	0.194		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.77		0.0777	0.389		2
06126	Barium	7440-39-3	100		0.103	0.389		2
06127	Beryllium	7440-41-7	0.499		0.0155	0.0971		2
06128	Cadmium	7440-43-9	0.250		0.0427	0.0971		2
06131	Chromium	7440-47-3	15.1		0.117	0.389		2
06132	Cobalt	7440-48-4	5.16		0.0194	0.0971		2
06133	Copper	7440-50-8	12.7		0.0777	0.389		2
06135	Lead	7439-92-1	12.7		0.0099	0.194		2

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Sample Description: SL-204-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA6-SS-0.0-0.5

LLI Sample # SW 6356759
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:00

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0903 SDG#: DE209-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg		mg/kg	mg/kg	mg/kg	
06138	Molybdenum	7439-98-7	0.571		0.0486	0.0971		2
06139	Nickel	7440-02-0	11.9		0.0971	0.389		2
06141	Selenium	7782-49-2	0.125	J	0.0563	0.389		2
06142	Silver	7440-22-4	0.756		0.0138	0.0971		2
06145	Thallium	7440-28-0	0.213		0.0291	0.0971		2
06148	Vanadium	7440-62-2	31.5		0.0214	0.0971		2
06149	Zinc	7440-66-6	62.0		0.544	2.91		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0198	J	0.0070	0.100		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.82	1.5		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43	J	0.20	1.0		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	6.84		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	1.0		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-204-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA6-SS-0.0-0.5

LLI Sample # SW 6356759
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:00

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0903 SDG#: DE209-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11214SLG026	08/10/2011 16:19	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLD026	08/17/2011 07:24	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11217SLB026	08/11/2011 00:55	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11214SLG026	08/02/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11217SLB026	08/05/2011 14:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLD026	08/05/2011 06:15	Katheryne V Sponheimer	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112180005A	08/11/2011 08:30	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112110005A	08/03/2011 20:07	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200019A	08/10/2011 08:26	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112170021A	08/26/2011 10:10	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112170013A	08/08/2011 19:30	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112170021A	08/06/2011 08:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112170013A	08/05/2011 16:45	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200019A	08/08/2011 22:15	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112110005A	08/02/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112180005A	08/07/2011 11:15	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112110020A	07/30/2011 18:13	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112090003A	07/28/2011 11:50	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112180014A	08/10/2011 21:28	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112180015A	08/09/2011 05:59	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112180015A	08/08/2011 08:05	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	112180014A	08/08/2011 08:05	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112110020A	07/30/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112090003A	07/28/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112135708004	08/03/2011 10:22	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112135708004	08/03/2011 10:22	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708004	08/03/2011 10:22	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112135708004	08/03/2011 10:22	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112135708004	08/03/2011 10:22	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112135708004	08/03/2011 10:22	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112135708004	08/03/2011 10:22	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112135708004	08/03/2011 10:22	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112135708004	08/03/2011 10:22	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112135708004	08/03/2011 10:22	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112135708004	08/03/2011 10:22	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112135708004	08/03/2011 10:22	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112135708004	08/03/2011 10:22	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112135708004	08/03/2011 10:22	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-204-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA6-SS-0.0-0.5

LLI Sample # SW 6356759
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:00

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0903 SDG#: DE209-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112131026003A	08/02/2011 23:13	David K Beck	2
06125	Arsenic	SW-846 6020	1	112131026003A	08/02/2011 23:13	David K Beck	2
06126	Barium	SW-846 6020	1	112131026003D	08/02/2011 23:13	David K Beck	2
06127	Beryllium	SW-846 6020	1	112131026003A	08/02/2011 23:13	David K Beck	2
06128	Cadmium	SW-846 6020	1	112131026003A	08/02/2011 23:13	David K Beck	2
06131	Chromium	SW-846 6020	1	112131026003A	08/02/2011 23:13	David K Beck	2
06132	Cobalt	SW-846 6020	1	112131026003A	08/02/2011 23:13	David K Beck	2
06133	Copper	SW-846 6020	1	112131026003A	08/02/2011 23:13	David K Beck	2
06135	Lead	SW-846 6020	1	112131026003A	08/02/2011 23:13	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112131026003C	08/02/2011 23:13	David K Beck	2
06139	Nickel	SW-846 6020	1	112131026003A	08/02/2011 23:13	David K Beck	2
06141	Selenium	SW-846 6020	1	112131026003B	08/02/2011 23:13	David K Beck	2
06142	Silver	SW-846 6020	1	112131026003A	08/02/2011 23:13	David K Beck	2
06145	Thallium	SW-846 6020	1	112131026003A	08/02/2011 23:13	David K Beck	2
06148	Vanadium	SW-846 6020	1	112131026003A	08/02/2011 23:13	David K Beck	2
06149	Zinc	SW-846 6020	1	112131026003A	08/02/2011 23:13	David K Beck	2
00159	Mercury	SW-846 7471A	1	112135711004	08/03/2011 08:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708004	08/02/2011 12:45	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026003	08/02/2011 13:07	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711004	08/02/2011 14:19	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621202A	08/04/2011 15:01	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11216621202A	08/04/2011 15:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284201A	08/05/2011 00:25	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11218243202A	08/09/2011 17:52	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11217102201B	08/08/2011 08:28	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621202A	08/04/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284201A	08/03/2011 16:50	Alex M Rittle	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11217102201B	08/05/2011 15:15	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039405A	08/02/2011 18:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11218243202A	08/06/2011 09:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401A	08/17/2011 21:17	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-205-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356760
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0904 SDG#: DE209-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	170	U	170	340		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(b)fluoranthene	205-99-2	18	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Chrysene	218-01-9	23	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	45	J	17	340		1
04688	Fluoranthene	206-44-0	20	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-205-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356760
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0904 SDG#: DE209-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	20	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.6		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.6		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.6		5
10138	Benzo(a)anthracene	56-55-3	3.4	U	3.4	8.6		5
10138	Benzo(a)pyrene	50-32-8	3.4	U	3.4	8.6		5
10138	Benzo(g,h,i)perylene	191-24-2	6.0	J	3.4	8.6		5
10138	Benzo(k)fluoranthene	207-08-9	3.4	U	3.4	8.6		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.6		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.6		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.6		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.6		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.6		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.6		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.6		5
10138	Phenanthrene	85-01-8	4.4	J	3.4	8.6		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

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E0904 SDG#: DE209-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	0.64	U	0.64	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	170	U	170	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised for MCPA due to interference from the sample matrix.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	620	U	620	1,500		1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	7.4	U	7.4	7.4		20
01363	p,p-DDT	50-29-3	28	U	28	28		20
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	14	U	14	14		20
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	4.3	U	4.3	7.0		20
01363	Endosulfan Sulfate	1031-07-8	0.31	U	0.31	0.35		1
01363	Endrin	72-20-8	2.5	U	2.5	7.0		20
01363	Endrin Aldehyde	7421-93-4	1.6	U	1.6	1.6		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	2.1	U	2.1	3.4		20
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.98	U	0.98	0.98		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. The samples were injected following maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17		5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17		5
10225	Aroclor 5460	11126-42-4	5.1	U	5.1	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.7		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.7		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.7		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.7		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.7		5
10225	PCB-1254	11097-69-1	67		1.7	8.7		5
10225	PCB-1260	11096-82-5	2.0	U	2.0	8.7		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.7		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.7		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1

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SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

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GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.82	U	0.82	2.5		2
10199	EFH (C15-C20)	n.a.	1.2	J	0.82	2.5		2
10199	EFH (C21-C30)	n.a.	13		0.82	2.5		2
10199	EFH (C30 - C40)	n.a.	48		0.82	2.5		2
10199	EFH (C8-C11)	n.a.	0.82	U	0.82	2.5		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,100		6.22	20.6		1
07914	Boron	7440-42-8	2.58	J	0.370	5.14		1
01650	Calcium	7440-70-2	2,410		2.57	20.6		1
01654	Iron	7439-89-6	19,900		2.68	20.6		1
01656	Lithium	7439-93-2	23.2		0.64	2.1		1
01657	Magnesium	7439-95-4	4,160		0.452	10.3		1
06958	Manganese	7439-96-5	223		0.0370	0.514		1
10145	Phosphorus	7723-14-0	294		0.360	10.3		1
01662	Potassium	7440-09-7	2,750		11.6	51.4		1
01667	Sodium	7440-23-5	88.4	J	6.12	103		1
07968	Strontium	7440-24-6	21.7		0.0257	0.514		1
06969	Tin	7440-31-5	2.37	J	0.329	10.3		1
06970	Titanium	7440-32-6	1,010		0.0730	1.03		1
10146	Zirconium	7440-67-7	2.86	J	0.473	5.14		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.108	J	0.0738	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.19		0.0798	0.399		2
06126	Barium	7440-39-3	99.4		0.106	0.399		2
06127	Beryllium	7440-41-7	0.598		0.0160	0.0998		2
06128	Cadmium	7440-43-9	0.272		0.0439	0.0998		2
06131	Chromium	7440-47-3	16.3		0.120	0.399		2
06132	Cobalt	7440-48-4	5.27		0.0200	0.0998		2
06133	Copper	7440-50-8	7.36		0.0798	0.399		2
06135	Lead	7439-92-1	7.20		0.0102	0.200		2

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SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356760
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E0904 SDG#: DE209-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg		mg/kg	mg/kg	mg/kg	
06138	Molybdenum	7439-98-7	0.537		0.0499	0.0998		2
06139	Nickel	7440-02-0	11.5		0.0998	0.399		2
06141	Selenium	7782-49-2	0.189	J	0.0579	0.399		2
06142	Silver	7440-22-4	0.123		0.0142	0.0998		2
06145	Thallium	7440-28-0	0.265		0.0299	0.0998		2
06148	Vanadium	7440-62-2	34.3		0.0220	0.0998		2
06149	Zinc	7440-66-6	49.4		0.559	2.99		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0222	J	0.0069	0.0977		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.2		0.83	1.6		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.8		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	6.43		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	2.7		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-205-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356760
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0904 SDG#: DE209-04BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11214SLG026	08/10/2011 16:38	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLD026	08/17/2011 05:18	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11217SLB026	08/10/2011 22:13	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11214SLG026	08/02/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11217SLB026	08/05/2011 14:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLD026	08/05/2011 06:15	Katheryne V Sponheimer	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112180005A	08/11/2011 10:37	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112110005A	08/03/2011 20:17	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200019A	08/10/2011 05:13	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112170021A	08/26/2011 11:54	Melissa McDermott	20
01363	12a Pesticides by 8081A	SW-846 8081A	1	112170021A	08/26/2011 13:09	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112170013A	08/08/2011 19:49	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112170021A	08/06/2011 08:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112170013A	08/05/2011 16:45	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200019A	08/08/2011 22:15	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112110005A	08/02/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112180005A	08/07/2011 11:15	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112110020A	07/30/2011 18:28	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112090003A	07/28/2011 12:03	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112180014A	08/11/2011 01:11	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112180015A	08/10/2011 17:43	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112180015A	08/08/2011 08:05	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	112180014A	08/08/2011 08:05	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112110020A	07/30/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112090003A	07/28/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112135708004	08/03/2011 09:41	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112135708004	08/03/2011 09:41	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708004	08/03/2011 09:41	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112135708004	08/03/2011 09:41	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112135708004	08/03/2011 09:41	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112135708004	08/03/2011 09:41	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112135708004	08/03/2011 09:41	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112135708004	08/03/2011 09:41	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112135708004	08/03/2011 09:41	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112135708004	08/03/2011 09:41	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112135708004	08/03/2011 09:41	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112135708004	08/03/2011 09:41	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112135708004	08/03/2011 09:41	Eric L Eby	1

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Sample Description: SL-205-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356760
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0904 SDG#: DE209-04BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112135708004	08/03/2011 09:41	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112131026003A	08/02/2011 22:42	David K Beck	2
06125	Arsenic	SW-846 6020	1	112131026003A	08/02/2011 22:42	David K Beck	2
06126	Barium	SW-846 6020	1	112131026003D	08/02/2011 22:42	David K Beck	2
06127	Beryllium	SW-846 6020	1	112131026003A	08/02/2011 22:42	David K Beck	2
06128	Cadmium	SW-846 6020	1	112131026003A	08/02/2011 22:42	David K Beck	2
06131	Chromium	SW-846 6020	1	112131026003A	08/02/2011 22:42	David K Beck	2
06132	Cobalt	SW-846 6020	1	112131026003A	08/02/2011 22:42	David K Beck	2
06133	Copper	SW-846 6020	1	112131026003A	08/02/2011 22:42	David K Beck	2
06135	Lead	SW-846 6020	1	112131026003A	08/02/2011 22:42	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112131026003C	08/02/2011 22:42	David K Beck	2
06139	Nickel	SW-846 6020	1	112131026003A	08/02/2011 22:42	David K Beck	2
06141	Selenium	SW-846 6020	1	112131026003B	08/02/2011 22:42	David K Beck	2
06142	Silver	SW-846 6020	1	112131026003A	08/02/2011 22:42	David K Beck	2
06145	Thallium	SW-846 6020	1	112131026003A	08/02/2011 22:42	David K Beck	2
06148	Vanadium	SW-846 6020	1	112131026003A	08/02/2011 22:42	David K Beck	2
06149	Zinc	SW-846 6020	1	112131026003A	08/02/2011 22:42	David K Beck	2
00159	Mercury	SW-846 7471A	1	112135711004	08/03/2011 08:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708004	08/02/2011 12:45	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026003	08/02/2011 13:07	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711004	08/02/2011 14:19	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621202A	08/04/2011 13:50	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11216621202A	08/04/2011 13:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284201A	08/04/2011 22:07	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11218243202A	08/09/2011 18:06	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11217102201B	08/08/2011 08:29	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621202A	08/04/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284201A	08/03/2011 16:50	Alex M Rittle	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11217102201B	08/05/2011 15:15	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039405A	08/02/2011 18:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11218243202A	08/06/2011 09:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401A	08/17/2011 21:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-205-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356761
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0904 SDG#: DE209-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	859		169	338		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,700		17	170		1
04688	Acenaphthylene	208-96-8	1,800		17	170		1
04688	Aniline	62-53-3	1,100		170	510		1
04688	Anthracene	120-12-7	1,800		17	170		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	1,500		17	170		1
04688	Benzo(a)pyrene	50-32-8	1,700		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	1,500		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		17	170		1
04688	Benzoic acid	65-85-0	1,400		170	510		1
04688	Benzyl alcohol	100-51-6	1,600		170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	1,600		17	170		1
04688	Butylbenzylphthalate	85-68-7	1,800		17	170		1
04688	Di-n-butylphthalate	84-74-2	1,800		17	170		1
04688	Carbazole	86-74-8	1,600		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,500		34	170		1
04688	4-Chloroaniline	106-47-8	510		69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	2,000		17	170		1
04688	2-Chloronaphthalene	91-58-7	1,300		17	170		1
04688	2-Chlorophenol	95-57-8	1,700		17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600		34	170		1
04688	Chrysene	218-01-9	1,500		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	1,800		17	170		1
04688	Dibenzofuran	132-64-9	1,600		17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,500		17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,500		17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,500		17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	960		100	340		1
04688	2,4-Dichlorophenol	120-83-2	1,600		17	170		1
04688	Diethylphthalate	84-66-2	1,600		17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,500		34	170		1
04688	3,5-Dimethylphenol	108-68-9	1,600		34	170		1
04688	Dimethylphthalate	131-11-3	1,700		17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,000		170	510		1
04688	2,4-Dinitrophenol	51-28-5	1,700		340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	1,500		34	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,600		17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	2,000		17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		17	340		1
04688	Fluoranthene	206-44-0	1,500		17	170		1
04688	Fluorene	86-73-7	1,700		17	170		1
04688	Hexachlorobenzene	118-74-1	1,600		17	170		1
04688	Hexachlorobutadiene	87-68-3	1,400		69	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-205-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356761
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0904 SDG#: DE209-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorocyclopentadiene	77-47-4	1,200		170	510		1
04688	Hexachloroethane	67-72-1	1,400		17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800		17	170		1
04688	Isophorone	78-59-1	1,600		17	170		1
04688	1-Methylnaphthalene	90-12-0	1,500		17	170		1
04688	2-Methylnaphthalene	91-57-6	1,600		17	170		1
04688	2-Methylphenol	95-48-7	1,700		34	170		1
04688	4-Methylphenol	106-44-5	1,500		34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,600		17	170		1
04688	2-Nitroaniline	88-74-4	1,700		17	170		1
04688	3-Nitroaniline	99-09-2	1,600		34	170		1
04688	4-Nitroaniline	100-01-6	1,300		69	170		1
04688	Nitrobenzene	98-95-3	1,600		17	170		1
04688	2-Nitrophenol	88-75-5	1,600		17	170		1
04688	4-Nitrophenol	100-02-7	1,300		170	510		1
04688	N-Nitrosodimethylamine	62-75-9	1,600		34	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600		17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900		17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	2,100		17	170		1
04688	Pentachlorophenol	87-86-5	1,500		170	510		1
04688	Phenanthrene	85-01-8	1,700		17	170		1
04688	Phenol	108-95-2	1,700		17	170		1
04688	Pyrene	129-00-0	1,800		17	170		1
04688	Tetralin	119-64-2	1,400		170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	1,500		17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,600		34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,700		34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	33		3.4	8.6		5
10138	Acenaphthylene	208-96-8	34		1.7	8.6		5
10138	Anthracene	120-12-7	34		1.7	8.6		5
10138	Benzo(a)anthracene	56-55-3	36		3.4	8.6		5
10138	Benzo(a)pyrene	50-32-8	28		3.4	8.6		5
10138	Benzo(b)fluoranthene	205-99-2	34		3.4	8.6		5
10138	Benzo(g,h,i)perylene	191-24-2	18		3.4	8.6		5
10138	Benzo(k)fluoranthene	207-08-9	27		3.4	8.6		5
10138	Butylbenzylphthalate	85-68-7	45	J	31	93		5
10138	Di-n-butylphthalate	84-74-2	48	J	31	93		5
10138	Chrysene	218-01-9	37		1.7	8.6		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-205-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356761
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0904 SDG#: DE209-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Dibenz(a,h)anthracene	53-70-3	21		3.4	8.6		5
10138	Diethylphthalate	84-66-2	35	J	31	93		5
10138	Dimethylphthalate	131-11-3	35	J	31	93		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	49	J	31	93		5
10138	Fluoranthene	206-44-0	46		3.4	8.6		5
10138	Fluorene	86-73-7	34		3.4	8.6		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	24		3.4	8.6		5
10138	1-Methylnaphthalene	90-12-0	28		3.4	8.6		5
10138	2-Methylnaphthalene	91-57-6	28		3.4	8.6		5
10138	Naphthalene	91-20-3	30		3.4	8.6		5
10138	N-Nitrosodimethylamine	62-75-9	29		3.4	8.6		5
10138	Di-n-octylphthalate	117-84-0	80	J	31	93		5
10138	Phenanthrene	85-01-8	34		3.4	8.6		5
10138	Pyrene	129-00-0	34		3.4	8.6		5
Reporting limits were raised due to interference from the sample matrix.								
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,200		62	120		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,200		41	120		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250		1
10132	1,3-Dinitrobenzene	99-65-0	2,300		41	120		1
10132	2,4-Dinitrotoluene	121-14-2	2,100		41	120		1
10132	2,6-Dinitrotoluene	606-20-2	2,200		41	120		1
10132	HMX	2691-41-0	1,900		100	310		1
10132	Nitrobenzene	98-95-3	2,100		41	120		1
10132	Nitroglycerin	55-63-0	42,000		820	2,500		1
10132	2-Nitrotoluene	88-72-2	2,100		82	120		1
10132	3-Nitrotoluene	99-08-1	2,300		100	120		1
10132	4-Nitrotoluene	99-99-0	2,100		82	120		1
10132	PETN	78-11-5	50,000		820	2,500		1
10132	RDX	121-82-4	1,800		51	120		1
10132	Tetryl	479-45-8	1,800		63	120		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,100		41	120		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,200		41	120		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	8.9		1.2	3.7		1
10401	Dalapon	75-99-0	16		4.5	9.2		1
10401	2,4-DB	94-82-6	6.0		0.64	1.7		1
10401	Dicamba	1918-00-9	0.89	J	0.41	1.2		1
10401	Dinoseb	88-85-7	1.7	J	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	9.0		0.82	1.7		1
10401	MCPA	94-74-6	560		78	260		1
10401	MCPP (Mecoprop)	93-65-2	430		77	260		1
10401	2,4,5-T	93-76-5	1.1		0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.58		0.077	0.17		1
The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory								

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Sample Description: SL-205-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356761
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0904 SDG#: DE209-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	5,100		620	1,500		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.27		0.068	0.17		1
01363	Alpha BHC	319-84-6	0.27		0.035	0.17		1
01363	Beta BHC	319-85-7	0.27		0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.27		0.035	0.17		1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	13		1.4	7.0		20
01363	p,p-DDT	50-29-3	43		1.4	7.0		20
01363	Delta BHC	319-86-8	0.25		0.037	0.17		1
01363	Dieldrin	60-57-1	9.9		1.4	7.0		20
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	3.0	J	1.4	7.0		20
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	3.4	J	1.4	7.0		20
01363	Endrin Aldehyde	7421-93-4	4.3	J	1.4	7.0		20
01363	Endrin Ketone	53494-70-5	0.70		0.068	0.35		1
01363	Heptachlor	76-44-8	0.25		0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	2.6	J	0.70	3.4		20
01363	Methoxychlor	72-43-5	3.3		0.35	1.7		1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. The samples were injected following maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17		5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17		5
10225	Aroclor 5460	11126-42-4	5.1	U	5.1	17		5
10225	PCB-1016	12674-11-2	20		1.7	8.7		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.7		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.7		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.7		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.7		5
10225	PCB-1254	11097-69-1	85		1.7	8.7		5
10225	PCB-1260	11096-82-5	36		2.0	8.7		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.7		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.7		5
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	2,300		100	510		1
10501	Isopropanol	67-63-0	2,400		100	510		1
10501	Methanol	67-56-1	2,200		100	510		1

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Sample Description: SL-205-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356761
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0904 SDG#: DE209-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	31		5.1	10		1
08283	Ethylene glycol	107-21-1	99		5.1	10		1
08283	Propylene glycol	57-55-6	120		5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.2	J	1.1	3.6		1
10318	o-Terphenyl	84-15-1	1.6	J	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.3	J	1.2	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.92	J	0.82	2.5		2
10199	EFH (C15-C20)	n.a.	2.5		0.82	2.5		2
10199	EFH (C21-C30)	n.a.	19		0.82	2.5		2
10199	EFH (C30 - C40)	n.a.	55		0.82	2.5		2
10199	EFH (C8-C11)	n.a.	0.82	U	0.82	2.5		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,900		6.04	20.0		1
07914	Boron	7440-42-8	191		0.359	4.99		1
01650	Calcium	7440-70-2	3,210		2.49	20.0		1
01654	Iron	7439-89-6	20,300		2.60	20.0		1
01656	Lithium	7439-93-2	122		0.62	2.0		1
01657	Magnesium	7439-95-4	4,550		0.439	9.98		1
06958	Manganese	7439-96-5	277		0.0359	0.499		1
10145	Phosphorus	7723-14-0	401		0.349	9.98		1
01662	Potassium	7440-09-7	3,950		11.3	49.9		1
01667	Sodium	7440-23-5	1,010		5.94	99.8		1
07968	Strontium	7440-24-6	120		0.0249	0.499		1
06969	Tin	7440-31-5	332		0.319	9.98		1
06970	Titanium	7440-32-6	1,180		0.0708	0.998		1
10146	Zirconium	7440-67-7	93.7		0.459	4.99		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.424		0.0761	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.92		0.0822	0.411		2
06126	Barium	7440-39-3	115		0.109	0.411		2
06127	Beryllium	7440-41-7	1.36		0.0164	0.103		2
06128	Cadmium	7440-43-9	1.32		0.0452	0.103		2
06131	Chromium	7440-47-3	26.1		0.123	0.411		2
06132	Cobalt	7440-48-4	55.1		0.0206	0.103		2
06133	Copper	7440-50-8	17.9		0.0822	0.411		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-205-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356761
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0904 SDG#: DE209-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	11.0	0.0105	0.206		2
06138	Molybdenum	7439-98-7	10.5	0.0514	0.103		2
06139	Nickel	7440-02-0	22.9	0.103	0.411		2
06141	Selenium	7782-49-2	2.17	0.0596	0.411		2
06142	Silver	7440-22-4	10.6	0.0146	0.103		2
06145	Thallium	7440-28-0	0.616	0.0308	0.103		2
06148	Vanadium	7440-62-2	48.4	0.0226	0.103		2
06149	Zinc	7440-66-6	64.5	0.576	3.08		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.193	0.0070	0.0992		1
Wet Chemistry	**EPA 300.0**		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.2	0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	13.8	0.82	1.5		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	527	9.2	30.8		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	34.3	1.0	5.1		5
	SW-846 9012B		mg/kg	mg/kg	mg/kg	mg/kg	
05895	16a Cyanide by 9012B	57-12-5	5.0	0.18	0.50		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	2.7	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11214SLG026	08/10/2011 16:57	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLD026	08/17/2011 05:43	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11217SLB026	08/10/2011 22:46	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11214SLG026	08/02/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11217SLB026	08/05/2011 14:30	Olivia I Santiago	1

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Sample Description: SL-205-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356761
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E0904 SDG#: DE209-04MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLD026	08/05/2011 06:15	Katheryne V Sponheimer	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112180005A	08/11/2011 11:19	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112110005A	08/03/2011 20:36	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200019A	08/10/2011 06:36	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112170021A	08/26/2011 12:09	Melissa McDermott	20
01363	12a Pesticides by 8081A	SW-846 8081A	1	112170021A	08/26/2011 13:24	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112170013A	08/08/2011 20:07	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112170021A	08/06/2011 08:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112170013A	08/05/2011 16:45	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200019A	08/08/2011 22:15	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112110005A	08/02/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112180005A	08/07/2011 11:15	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112110020A	07/30/2011 18:43	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112090003A	07/28/2011 14:50	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112180014A	08/11/2011 01:56	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112180015A	08/10/2011 18:07	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112180015A	08/08/2011 08:05	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	112180014A	08/08/2011 08:05	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112110020A	07/30/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112090003A	07/28/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112135708004	08/03/2011 09:54	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112135708004	08/03/2011 09:54	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708004	08/03/2011 09:54	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112135708004	08/03/2011 09:54	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112135708004	08/03/2011 09:54	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112135708004	08/03/2011 09:54	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112135708004	08/03/2011 09:54	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112135708004	08/03/2011 09:54	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112135708004	08/03/2011 09:54	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112135708004	08/03/2011 09:54	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112135708004	08/03/2011 09:54	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112135708004	08/03/2011 09:54	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112135708004	08/03/2011 09:54	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112135708004	08/03/2011 09:54	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112131026003A	08/02/2011 22:52	David K Beck	2
06125	Arsenic	SW-846 6020	1	112131026003A	08/02/2011 22:52	David K Beck	2
06126	Barium	SW-846 6020	1	112131026003D	08/02/2011 22:52	David K Beck	2
06127	Beryllium	SW-846 6020	1	112131026003A	08/02/2011 22:52	David K Beck	2
06128	Cadmium	SW-846 6020	1	112131026003A	08/02/2011 22:52	David K Beck	2
06131	Chromium	SW-846 6020	1	112131026003A	08/02/2011 22:52	David K Beck	2

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Sample Description: SL-205-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356761
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

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14420 Albemarle Point Place
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E0904 SDG#: DE209-04MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	112131026003A	08/02/2011 22:52	David K Beck	2
06133	Copper	SW-846 6020	1	112131026003A	08/02/2011 22:52	David K Beck	2
06135	Lead	SW-846 6020	1	112131026003A	08/02/2011 22:52	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112131026003C	08/02/2011 22:52	David K Beck	2
06139	Nickel	SW-846 6020	1	112131026003A	08/02/2011 22:52	David K Beck	2
06141	Selenium	SW-846 6020	1	112131026003B	08/02/2011 22:52	David K Beck	2
06142	Silver	SW-846 6020	1	112131026003A	08/02/2011 22:52	David K Beck	2
06145	Thallium	SW-846 6020	1	112131026003A	08/02/2011 22:52	David K Beck	2
06148	Vanadium	SW-846 6020	1	112131026003A	08/02/2011 22:52	David K Beck	2
06149	Zinc	SW-846 6020	1	112131026003A	08/02/2011 22:52	David K Beck	2
00159	Mercury	SW-846 7471A	1	112135711004	08/03/2011 08:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708004	08/02/2011 12:45	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026003	08/02/2011 13:07	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711004	08/02/2011 14:19	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621202A	08/04/2011 14:18	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11216621202A	08/04/2011 14:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284201A	08/04/2011 22:53	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11218243202A	08/11/2011 23:03	Elyse P Brunstetter	5
05895	16a Cyanide by 9012B	SW-846 9012B	1	11217102201B	08/08/2011 08:30	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621202A	08/04/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284201A	08/03/2011 16:50	Alex M Rittle	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11217102201B	08/05/2011 15:15	Carolyn M Mastropietro	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11218243202A	08/06/2011 09:20	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401A	08/17/2011 21:17	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-205-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356762
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0904 SDG#: DE209-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	729		171	343		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700		17	170		1
04688	Acenaphthylene	208-96-8	1,800		17	170		1
04688	Aniline	62-53-3	1,000		170	510		1
04688	Anthracene	120-12-7	1,800		17	170		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	1,500		17	170		1
04688	Benzo(a)pyrene	50-32-8	1,700		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	1,600		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,600		17	170		1
04688	Benzoic acid	65-85-0	1,200		170	510		1
04688	Benzyl alcohol	100-51-6	1,600		170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	1,600		17	170		1
04688	Butylbenzylphthalate	85-68-7	1,800		17	170		1
04688	Di-n-butylphthalate	84-74-2	1,800		17	170		1
04688	Carbazole	86-74-8	1,600		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,500		34	170		1
04688	4-Chloroaniline	106-47-8	530		69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	2,000		17	170		1
04688	2-Chloronaphthalene	91-58-7	1,200		17	170		1
04688	2-Chlorophenol	95-57-8	1,700		17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,500		34	170		1
04688	Chrysene	218-01-9	1,500		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	1,800		17	170		1
04688	Dibenzofuran	132-64-9	1,600		17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,500		17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,500		17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,500		17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	960		100	340		1
04688	2,4-Dichlorophenol	120-83-2	1,600		17	170		1
04688	Diethylphthalate	84-66-2	1,600		17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,500		34	170		1
04688	3,5-Dimethylphenol	108-68-9	1,600		34	170		1
04688	Dimethylphthalate	131-11-3	1,600		17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	980		170	510		1
04688	2,4-Dinitrophenol	51-28-5	1,500		340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	1,500		34	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,600		17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	2,000		17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		17	340		1
04688	Fluoranthene	206-44-0	1,500		17	170		1
04688	Fluorene	86-73-7	1,600		17	170		1
04688	Hexachlorobenzene	118-74-1	1,600		17	170		1
04688	Hexachlorobutadiene	87-68-3	1,400		69	170		1

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Sample Description: SL-205-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356762
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0904 SDG#: DE209-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorocyclopentadiene	77-47-4	1,500		170	510		1
04688	Hexachloroethane	67-72-1	1,400		17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700		17	170		1
04688	Isophorone	78-59-1	1,600		17	170		1
04688	1-Methylnaphthalene	90-12-0	1,500		17	170		1
04688	2-Methylnaphthalene	91-57-6	1,600		17	170		1
04688	2-Methylphenol	95-48-7	1,700		34	170		1
04688	4-Methylphenol	106-44-5	1,500		34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,600		17	170		1
04688	2-Nitroaniline	88-74-4	1,700		17	170		1
04688	3-Nitroaniline	99-09-2	1,500		34	170		1
04688	4-Nitroaniline	100-01-6	1,300		69	170		1
04688	Nitrobenzene	98-95-3	1,600		17	170		1
04688	2-Nitrophenol	88-75-5	1,600		17	170		1
04688	4-Nitrophenol	100-02-7	1,200		170	510		1
04688	N-Nitrosodimethylamine	62-75-9	1,600		34	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600		17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900		17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	2,000		17	170		1
04688	Pentachlorophenol	87-86-5	1,500		170	510		1
04688	Phenanthrene	85-01-8	1,700		17	170		1
04688	Phenol	108-95-2	1,700		17	170		1
04688	Pyrene	129-00-0	1,700		17	170		1
04688	Tetralin	119-64-2	1,600		170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	1,500		17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,600		34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,600		34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	32		3.4	8.5		5
10138	Acenaphthylene	208-96-8	33		1.7	8.5		5
10138	Anthracene	120-12-7	34		1.7	8.5		5
10138	Benzo(a)anthracene	56-55-3	35		3.4	8.5		5
10138	Benzo(a)pyrene	50-32-8	28		3.4	8.5		5
10138	Benzo(b)fluoranthene	205-99-2	38		3.4	8.5		5
10138	Benzo(g,h,i)perylene	191-24-2	16		3.4	8.5		5
10138	Benzo(k)fluoranthene	207-08-9	28		3.4	8.5		5
10138	Butylbenzylphthalate	85-68-7	59	J	30	91		5
10138	Di-n-butylphthalate	84-74-2	56	J	30	91		5
10138	Chrysene	218-01-9	41		1.7	8.5		5

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Sample Description: SL-205-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356762
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0904 SDG#: DE209-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Dibenz(a,h)anthracene	53-70-3	19		3.4	8.5		5
10138	Diethylphthalate	84-66-2	36	J	30	91		5
10138	Dimethylphthalate	131-11-3	35	J	30	91		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	90	J	30	91		5
10138	Fluoranthene	206-44-0	53		3.4	8.5		5
10138	Fluorene	86-73-7	34		3.4	8.5		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	24		3.4	8.5		5
10138	1-Methylnaphthalene	90-12-0	27		3.4	8.5		5
10138	2-Methylnaphthalene	91-57-6	27		3.4	8.5		5
10138	Naphthalene	91-20-3	29		3.4	8.5		5
10138	N-Nitrosodimethylamine	62-75-9	28		3.4	8.5		5
10138	Di-n-octylphthalate	117-84-0	80	J	30	91		5
10138	Phenanthrene	85-01-8	36		3.4	8.5		5
10138	Pyrene	129-00-0	36		3.4	8.5		5
Reporting limits were raised due to interference from the sample matrix.								
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,200		62	120		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,200		41	120		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250		1
10132	1,3-Dinitrobenzene	99-65-0	2,300		41	120		1
10132	2,4-Dinitrotoluene	121-14-2	2,100		41	120		1
10132	2,6-Dinitrotoluene	606-20-2	2,200		41	120		1
10132	HMX	2691-41-0	1,800		100	310		1
10132	Nitrobenzene	98-95-3	2,100		41	120		1
10132	Nitroglycerin	55-63-0	42,000		820	2,500		1
10132	2-Nitrotoluene	88-72-2	2,100		82	120		1
10132	3-Nitrotoluene	99-08-1	2,300		100	120		1
10132	4-Nitrotoluene	99-99-0	2,100		82	120		1
10132	PETN	78-11-5	50,000		820	2,500		1
10132	RDX	121-82-4	1,800		51	120		1
10132	Tetryl	479-45-8	1,700		63	120		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,100		41	120		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,200		41	120		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	8.0		1.2	3.7		1
10401	Dalapon	75-99-0	15		4.5	9.2		1
10401	2,4-DB	94-82-6	5.2		0.64	1.7		1
10401	Dicamba	1918-00-9	0.84	J	0.41	1.2		1
10401	Dinoseb	88-85-7	1.7	J	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	8.8		0.82	1.7		1
10401	MCPA	94-74-6	490		78	260		1
10401	MCPP (Mecoprop)	93-65-2	420		77	260		1
10401	2,4,5-T	93-76-5	1.2		0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.38		0.077	0.17		1
The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory								

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Sample Description: SL-205-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356762
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0904 SDG#: DE209-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
statistical limits of 0-36%, the data is reported.								
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	5,400		620	1,500		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.24		0.068	0.17		1
01363	Alpha BHC	319-84-6	0.26		0.035	0.17		1
01363	Beta BHC	319-85-7	0.29		0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.27		0.035	0.17		1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	15		1.4	7.0		20
01363	p,p-DDT	50-29-3	53		1.4	7.0		20
01363	Delta BHC	319-86-8	0.32		0.037	0.17		1
01363	Dieldrin	60-57-1	12		1.4	7.0		20
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	7.1		1.4	7.0		20
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	4.5	J	1.4	7.0		20
01363	Endrin Aldehyde	7421-93-4	1.7		0.068	0.35		1
01363	Endrin Ketone	53494-70-5	0.49		0.068	0.35		1
01363	Heptachlor	76-44-8	0.25		0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	3.3	J	0.70	3.4		20
01363	Methoxychlor	72-43-5	3.2		0.35	1.7		1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. The samples were injected following maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.								
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17		5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17		5
10225	Aroclor 5460	11126-42-4	5.1	U	5.1	17		5
10225	PCB-1016	12674-11-2	24		1.7	8.7		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.7		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.7		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.7		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.7		5
10225	PCB-1254	11097-69-1	170		1.7	8.7		5
10225	PCB-1260	11096-82-5	58		2.0	8.7		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.7		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.7		5
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	2,300		100	510		1
10501	Isopropanol	67-63-0	2,300		100	510		1
10501	Methanol	67-56-1	2,200		100	510		1

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Sample Description: SL-205-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356762
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
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Suite 210
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E0904 SDG#: DE209-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	32		5.1	10		1
08283	Ethylene glycol	107-21-1	110		5.1	10		1
08283	Propylene glycol	57-55-6	130		5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.2	J	1.2	3.6		1
10318	o-Terphenyl	84-15-1	1.6	J	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.3	J	1.2	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.2		5
10199	EFH (C15-C20)	n.a.	2.6	J	2.1	6.2		5
10199	EFH (C21-C30)	n.a.	20		2.1	6.2		5
10199	EFH (C30 - C40)	n.a.	84		2.1	6.2		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.2		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,800		5.92	19.6		1
07914	Boron	7440-42-8	187		0.352	4.89		1
01650	Calcium	7440-70-2	3,070		2.45	19.6		1
01654	Iron	7439-89-6	19,500		2.55	19.6		1
01656	Lithium	7439-93-2	121		0.61	2.0		1
01657	Magnesium	7439-95-4	4,340		0.431	9.79		1
06958	Manganese	7439-96-5	252		0.0352	0.489		1
10145	Phosphorus	7723-14-0	379		0.343	9.79		1
01662	Potassium	7440-09-7	3,800		11.1	48.9		1
01667	Sodium	7440-23-5	993		5.82	97.9		1
07968	Strontium	7440-24-6	117		0.0245	0.489		1
06969	Tin	7440-31-5	330		0.313	9.79		1
06970	Titanium	7440-32-6	1,160		0.0695	0.979		1
10146	Zirconium	7440-67-7	92.9		0.450	4.89		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.422		0.0731	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.62		0.0791	0.395		2
06126	Barium	7440-39-3	112		0.105	0.395		2
06127	Beryllium	7440-41-7	1.30		0.0158	0.0988		2
06128	Cadmium	7440-43-9	1.23		0.0435	0.0988		2
06131	Chromium	7440-47-3	25.5		0.119	0.395		2
06132	Cobalt	7440-48-4	51.1		0.0198	0.0988		2
06133	Copper	7440-50-8	16.3		0.0791	0.395		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-205-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356762
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0904 SDG#: DE209-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	9.20	0.0101	0.198		2
06138	Molybdenum	7439-98-7	9.67	0.0494	0.0988		2
06139	Nickel	7440-02-0	21.3	0.0988	0.395		2
06141	Selenium	7782-49-2	2.12	0.0573	0.395		2
06142	Silver	7440-22-4	9.77	0.0140	0.0988		2
06145	Thallium	7440-28-0	0.555	0.0296	0.0988		2
06148	Vanadium	7440-62-2	46.5	0.0217	0.0988		2
06149	Zinc	7440-66-6	59.7	0.553	2.96		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.182	0.0068	0.0967		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	2.7	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11214SLG026	08/10/2011 17:16	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLD026	08/17/2011 06:08	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11217SLB026	08/10/2011 23:18	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11214SLG026	08/02/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11217SLB026	08/05/2011 14:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLD026	08/05/2011 06:15	Katheryne V Sponheimer	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112180005A	08/11/2011 12:02	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112110005A	08/03/2011 20:45	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200019A	08/10/2011 07:03	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112170021A	08/26/2011 12:24	Melissa McDermott	20
01363	12a Pesticides by 8081A	SW-846 8081A	1	112170021A	08/26/2011 13:39	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112170013A	08/08/2011 20:26	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112170021A	08/06/2011 08:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112170013A	08/05/2011 16:45	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200019A	08/08/2011 22:15	Karen L Beyer	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-205-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356762
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0904 SDG#: DE209-04MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112110005A	08/02/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112180005A	08/07/2011 11:15	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112110020A	07/30/2011 18:58	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112090003A	07/28/2011 15:02	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112180014A	08/11/2011 02:40	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112180015A	08/10/2011 18:31	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112180015A	08/08/2011 08:05	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	112180014A	08/08/2011 08:05	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112110020A	07/30/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112090003A	07/28/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112135708004	08/03/2011 09:58	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112135708004	08/03/2011 09:58	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708004	08/03/2011 09:58	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112135708004	08/03/2011 09:58	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112135708004	08/03/2011 09:58	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112135708004	08/03/2011 09:58	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112135708004	08/03/2011 09:58	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112135708004	08/03/2011 09:58	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112135708004	08/03/2011 09:58	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112135708004	08/03/2011 09:58	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112135708004	08/03/2011 09:58	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112135708004	08/03/2011 09:58	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112135708004	08/03/2011 09:58	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112135708004	08/03/2011 09:58	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112131026003A	08/02/2011 22:55	David K Beck	2
06125	Arsenic	SW-846 6020	1	112131026003A	08/02/2011 22:55	David K Beck	2
06126	Barium	SW-846 6020	1	112131026003D	08/02/2011 22:55	David K Beck	2
06127	Beryllium	SW-846 6020	1	112131026003A	08/02/2011 22:55	David K Beck	2
06128	Cadmium	SW-846 6020	1	112131026003A	08/02/2011 22:55	David K Beck	2
06131	Chromium	SW-846 6020	1	112131026003A	08/02/2011 22:55	David K Beck	2
06132	Cobalt	SW-846 6020	1	112131026003A	08/02/2011 22:55	David K Beck	2
06133	Copper	SW-846 6020	1	112131026003A	08/02/2011 22:55	David K Beck	2
06135	Lead	SW-846 6020	1	112131026003A	08/02/2011 22:55	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112131026003C	08/02/2011 22:55	David K Beck	2
06139	Nickel	SW-846 6020	1	112131026003A	08/02/2011 22:55	David K Beck	2
06141	Selenium	SW-846 6020	1	112131026003B	08/02/2011 22:55	David K Beck	2
06142	Silver	SW-846 6020	1	112131026003A	08/02/2011 22:55	David K Beck	2
06145	Thallium	SW-846 6020	1	112131026003A	08/02/2011 22:55	David K Beck	2
06148	Vanadium	SW-846 6020	1	112131026003A	08/02/2011 22:55	David K Beck	2
06149	Zinc	SW-846 6020	1	112131026003A	08/02/2011 22:55	David K Beck	2
00159	Mercury	SW-846 7471A	1	112135711004	08/03/2011 08:26	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708004	08/02/2011 12:45	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026003	08/02/2011 13:07	James L Mertz	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-205-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356762
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0904 SDG#: DE209-04MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711004	08/02/2011 14:19	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401A	08/17/2011 21:17	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-205-SA6-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356763
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0904 SDG#: DE209-04DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,600		5.98	19.8		1
07914	Boron	7440-42-8	2.62	J	0.356	4.94		1
01650	Calcium	7440-70-2	2,560		2.47	19.8		1
01654	Iron	7439-89-6	19,600		2.58	19.8		1
01656	Lithium	7439-93-2	22.9		0.61	2.0		1
01657	Magnesium	7439-95-4	4,120		0.435	9.88		1
06958	Manganese	7439-96-5	226		0.0356	0.494		1
10145	Phosphorus	7723-14-0	316		0.346	9.88		1
01662	Potassium	7440-09-7	2,910		11.2	49.4		1
01667	Sodium	7440-23-5	85.8	J	5.88	98.8		1
07968	Strontium	7440-24-6	22.7		0.0247	0.494		1
06969	Tin	7440-31-5	2.35	J	0.316	9.88		1
06970	Titanium	7440-32-6	999		0.0702	0.988		1
10146	Zirconium	7440-67-7	3.33	J	0.455	4.94		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0800	J	0.0753	0.204		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.31		0.0814	0.407		2
06126	Barium	7440-39-3	97.2		0.108	0.407		2
06127	Beryllium	7440-41-7	0.625		0.0163	0.102		2
06128	Cadmium	7440-43-9	0.277		0.0448	0.102		2
06131	Chromium	7440-47-3	16.3		0.122	0.407		2
06132	Cobalt	7440-48-4	5.05		0.0204	0.102		2
06133	Copper	7440-50-8	7.44		0.0814	0.407		2
06135	Lead	7439-92-1	7.10		0.0104	0.204		2
06138	Molybdenum	7439-98-7	0.574		0.0509	0.102		2
06139	Nickel	7440-02-0	11.3		0.102	0.407		2
06141	Selenium	7782-49-2	0.192	J	0.0590	0.407		2
06142	Silver	7440-22-4	0.0895	J	0.0144	0.102		2
06145	Thallium	7440-28-0	0.240		0.0305	0.102		2
06148	Vanadium	7440-62-2	34.6		0.0224	0.102		2
06149	Zinc	7440-66-6	50.2		0.570	3.05		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0163	J	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.0		0.83	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.21	1.0		1

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Sample Description: SL-205-SA6-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356763
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0904 SDG#: DE209-04DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.17 U	0.17	0.48		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.39	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	2.5	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	2.7	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112135708004	08/03/2011 09:49	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112135708004	08/03/2011 09:49	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708004	08/03/2011 09:49	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112135708004	08/03/2011 09:49	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112135708004	08/03/2011 09:49	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112135708004	08/03/2011 09:49	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112135708004	08/03/2011 09:49	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112135708004	08/03/2011 09:49	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112135708004	08/03/2011 09:49	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112135708004	08/03/2011 09:49	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112135708004	08/03/2011 09:49	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112135708004	08/03/2011 09:49	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112135708004	08/03/2011 09:49	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112135708004	08/03/2011 09:49	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112131026003A	08/02/2011 22:49	David K Beck	2
06125	Arsenic	SW-846 6020	1	112131026003A	08/02/2011 22:49	David K Beck	2
06126	Barium	SW-846 6020	1	112131026003D	08/02/2011 22:49	David K Beck	2
06127	Beryllium	SW-846 6020	1	112131026003A	08/02/2011 22:49	David K Beck	2
06128	Cadmium	SW-846 6020	1	112131026003A	08/02/2011 22:49	David K Beck	2
06131	Chromium	SW-846 6020	1	112131026003A	08/02/2011 22:49	David K Beck	2
06132	Cobalt	SW-846 6020	1	112131026003A	08/02/2011 22:49	David K Beck	2
06133	Copper	SW-846 6020	1	112131026003A	08/02/2011 22:49	David K Beck	2
06135	Lead	SW-846 6020	1	112131026003A	08/02/2011 22:49	David K Beck	2

*=This limit was used in the evaluation of the final result
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Sample Description: SL-205-SA6-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356763
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0904 SDG#: DE209-04DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	112131026003C	08/02/2011 22:49	David K Beck	2
06139	Nickel	SW-846 6020	1	112131026003A	08/02/2011 22:49	David K Beck	2
06141	Selenium	SW-846 6020	1	112131026003B	08/02/2011 22:49	David K Beck	2
06142	Silver	SW-846 6020	1	112131026003A	08/02/2011 22:49	David K Beck	2
06145	Thallium	SW-846 6020	1	112131026003A	08/02/2011 22:49	David K Beck	2
06148	Vanadium	SW-846 6020	1	112131026003A	08/02/2011 22:49	David K Beck	2
06149	Zinc	SW-846 6020	1	112131026003A	08/02/2011 22:49	David K Beck	2
00159	Mercury	SW-846 7471A	1	112135711004	08/03/2011 08:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708004	08/02/2011 12:45	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026003	08/02/2011 13:07	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711004	08/02/2011 14:19	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621202A	08/04/2011 14:04	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11216621202A	08/04/2011 14:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284201A	08/04/2011 22:30	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11218243202A	08/09/2011 19:19	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11217102201B	08/08/2011 08:34	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621202A	08/04/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284201A	08/03/2011 16:50	Alex M Rittle	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11217102201B	08/05/2011 15:15	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039405A	08/02/2011 18:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11218243202A	08/06/2011 09:20	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11229162401A	08/17/2011 21:17	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401A	08/17/2011 21:17	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-206-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA6-SS-0.0-0.5

LLI Sample # SW 6356764
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 08:18

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0905 SDG#: DE209-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	174	U	174	349		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	91	J	18	350		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: SL-206-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA6-SS-0.0-0.5

LLI Sample # SW 6356764
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 08:18

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0905 SDG#: DE209-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.48	J	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.3		0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.5		0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	5.5		0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.6	J	0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	2.3		0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	4.8		0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	5.4		0.70	1.8		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	15	J	6.3	19		1
10138	Phenanthrene	85-01-8	2.0		0.70	1.8		1
10138	Pyrene	129-00-0	4.0		0.70	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1

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Sample Description: SL-206-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA6-SS-0.0-0.5

LLI Sample # SW 6356764
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 08:18

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0905 SDG#: DE209-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4		1
10401	2,4-DB	94-82-6	0.98	J	0.65	1.8		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8		1
10401	MCPA	94-74-6	80	U	80	260		1
10401	MCPP (Mecoprop)	93-65-2	79	U	79	260		1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18		1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17		1

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Sample Description: SL-206-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA6-SS-0.0-0.5

LLI Sample # SW 6356764
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 08:18

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0905 SDG#: DE209-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17		1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17		1
01363	Chlordane	57-74-9	1.6	J	0.84	3.6		1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.36		1
01363	p,p-DDE	72-55-9	0.17	U	0.17	0.36		1
01363	p,p-DDT	50-29-3	0.91		0.069	0.36		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17		1
01363	Dieldrin	60-57-1	0.28	U	0.28	0.36		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.087	U	0.087	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36		1
01363	Endrin	72-20-8	0.093	U	0.093	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.11	U	0.11	0.36		1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36		1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.064	U	0.064	0.17		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7		1
01363	Mirex	2385-85-5	0.36		0.069	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. The samples were injected following maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	5.5		1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	14		0.35	1.8		1
10225	PCB-1260	11096-82-5	3.5		0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1

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Sample Description: SL-206-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA6-SS-0.0-0.5

LLI Sample # SW 6356764
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 08:18

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0905 SDG#: DE209-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.2	U	4.2	13		10
10199	EFH (C15-C20)	n.a.	4.2	U	4.2	13		10
10199	EFH (C21-C30)	n.a.	81		4.2	13		10
10199	EFH (C30 - C40)	n.a.	280		4.2	13		10
10199	EFH (C8-C11)	n.a.	4.2	U	4.2	13		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,100		6.18	20.4		1
07914	Boron	7440-42-8	5.87		0.368	5.11		1
01650	Calcium	7440-70-2	17,800		2.55	20.4		1
01654	Iron	7439-89-6	30,200		13.3	102		5
01656	Lithium	7439-93-2	28.8		0.63	2.0		1
01657	Magnesium	7439-95-4	7,390		0.450	10.2		1
06958	Manganese	7439-96-5	383		0.0368	0.511		1
10145	Phosphorus	7723-14-0	452		0.358	10.2		1
01662	Potassium	7440-09-7	5,640		11.5	51.1		1
01667	Sodium	7440-23-5	105		6.08	102		1
07968	Strontium	7440-24-6	41.2		0.0255	0.511		1
06969	Tin	7440-31-5	2.22	J	0.327	10.2		1
06970	Titanium	7440-32-6	1,210		0.0726	1.02		1
10146	Zirconium	7440-67-7	5.47		0.470	5.11		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.129	J	0.0749	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.03		0.0810	0.405		2
06126	Barium	7440-39-3	130		0.107	0.405		2
06127	Beryllium	7440-41-7	0.797		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.322		0.0445	0.101		2
06131	Chromium	7440-47-3	29.1		0.121	0.405		2
06132	Cobalt	7440-48-4	9.79		0.0202	0.101		2
06133	Copper	7440-50-8	16.0		0.0810	0.405		2
06135	Lead	7439-92-1	11.4		0.0103	0.202		2
06138	Molybdenum	7439-98-7	0.404		0.0506	0.101		2

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Sample Description: SL-206-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA6-SS-0.0-0.5

LLI Sample # SW 6356764
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 08:18

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0905 SDG#: DE209-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	21.0	0.101	0.405		2
06141	Selenium	7782-49-2	0.155 J	0.0587	0.405		2
06142	Silver	7440-22-4	0.0421 J	0.0144	0.101		2
06145	Thallium	7440-28-0	0.342	0.0304	0.101		2
06148	Vanadium	7440-62-2	57.4	0.0223	0.101		2
06149	Zinc	7440-66-6	75.8	0.567	3.04		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0099 J	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4	0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	5.5	0.83	1.6		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5 U	9.5	31.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.70 J	0.21	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18 U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.90	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.0	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11214SLG026	08/10/2011 17:36	Matthew S Woods	10

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Sample Description: SL-206-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA6-SS-0.0-0.5

LLI Sample # SW 6356764
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 08:18

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0905 SDG#: DE209-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLD026	08/17/2011 07:48	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11217SLB026	08/11/2011 01:27	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11214SLG026	08/02/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11217SLB026	08/05/2011 14:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLD026	08/05/2011 06:15	Katheryne V Sponheimer	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112180005A	08/11/2011 12:44	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112110005A	08/03/2011 20:55	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200019A	08/10/2011 08:54	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112170021A	08/26/2011 10:25	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112170013A	08/08/2011 20:44	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112170021A	08/06/2011 08:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112170013A	08/05/2011 16:45	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200019A	08/08/2011 22:15	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112110005A	08/02/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112180005A	08/07/2011 11:15	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112110020A	07/30/2011 19:13	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112090003A	07/28/2011 12:16	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112180014A	08/11/2011 06:23	Tracy A Cole	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112180015A	08/10/2011 20:54	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112180015A	08/08/2011 08:05	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	112180014A	08/08/2011 08:05	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112110020A	07/30/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112090003A	07/28/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112135708004	08/03/2011 10:26	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112135708004	08/03/2011 10:26	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708004	08/03/2011 10:26	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112135708004	08/03/2011 22:24	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	112135708004	08/03/2011 10:26	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112135708004	08/03/2011 10:26	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112135708004	08/03/2011 10:26	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112135708004	08/03/2011 10:26	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112135708004	08/03/2011 10:26	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112135708004	08/03/2011 10:26	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112135708004	08/03/2011 10:26	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112135708004	08/03/2011 10:26	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112135708004	08/03/2011 10:26	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112135708004	08/03/2011 10:26	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112131026003A	08/02/2011 23:16	David K Beck	2
06125	Arsenic	SW-846 6020	1	112131026003A	08/02/2011 23:16	David K Beck	2

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Sample Description: SL-206-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA6-SS-0.0-0.5

LLI Sample # SW 6356764
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 08:18

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0905 SDG#: DE209-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112131026003D	08/02/2011 23:16	David K Beck	2
06127	Beryllium	SW-846 6020	1	112131026003A	08/02/2011 23:16	David K Beck	2
06128	Cadmium	SW-846 6020	1	112131026003A	08/02/2011 23:16	David K Beck	2
06131	Chromium	SW-846 6020	1	112131026003A	08/02/2011 23:16	David K Beck	2
06132	Cobalt	SW-846 6020	1	112131026003A	08/02/2011 23:16	David K Beck	2
06133	Copper	SW-846 6020	1	112131026003A	08/02/2011 23:16	David K Beck	2
06135	Lead	SW-846 6020	1	112131026003A	08/02/2011 23:16	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112131026003C	08/02/2011 23:16	David K Beck	2
06139	Nickel	SW-846 6020	1	112131026003A	08/02/2011 23:16	David K Beck	2
06141	Selenium	SW-846 6020	1	112131026003B	08/02/2011 23:16	David K Beck	2
06142	Silver	SW-846 6020	1	112131026003A	08/02/2011 23:16	David K Beck	2
06145	Thallium	SW-846 6020	1	112131026003A	08/02/2011 23:16	David K Beck	2
06148	Vanadium	SW-846 6020	1	112131026003A	08/02/2011 23:16	David K Beck	2
06149	Zinc	SW-846 6020	1	112131026003A	08/02/2011 23:16	David K Beck	2
00159	Mercury	SW-846 7471A	1	112135711004	08/03/2011 08:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708004	08/02/2011 12:45	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026003	08/02/2011 13:07	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711004	08/02/2011 14:19	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621202A	08/04/2011 15:15	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11216621202A	08/04/2011 15:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284201A	08/05/2011 00:49	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11218243202A	08/09/2011 19:40	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11217102201B	08/08/2011 08:35	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621202A	08/04/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284201A	08/03/2011 16:50	Alex M Rittle	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11217102201B	08/05/2011 15:15	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039405A	08/02/2011 18:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11218243202A	08/06/2011 09:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401A	08/17/2011 21:17	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-213-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-213-SA6-SS-0.0-0.5

LLI Sample # SW 6356765
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 08:38

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0906 SDG#: DE209-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	17.3	U	17.3	34.5		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	70	U	70	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-213-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-213-SA6-SS-0.0-0.5

LLI Sample # SW 6356765
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 08:38

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0906 SDG#: DE209-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.4	J	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	J	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.95	J	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	1.8		0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	0.91	J	0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.72	J	0.70	1.7		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1

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Sample Description: SL-213-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-213-SA6-SS-0.0-0.5

LLI Sample # SW 6356765
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 08:38

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0906 SDG#: DE209-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	130	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4		1
10401	2,4-DB	94-82-6	0.64	U	0.64	1.8		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.2		1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8		1
10401	MCPA	94-74-6	530	U	530	530		1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260		1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18		1
10401	2,4,5-TP	93-72-1	0.12	J	0.078	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised for MCPA due to interference from the sample matrix.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600		1

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SSFL Area IV Collocated Soil Sampling
SL-213-SA6-SS-0.0-0.5

LLI Sample # SW 6356765
LLI Group # 1258479
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Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0906 SDG#: DE209-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17		1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17		1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6		1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.36		1
01363	p,p-DDE	72-55-9	0.069	U	0.069	0.36		1
01363	p,p-DDT	50-29-3	0.19	U	0.19	0.36		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17		1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.36		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36		1
01363	Endrin	72-20-8	0.069	U	0.069	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.15	U	0.15	0.36		1
01363	Endrin Ketone	53494-70-5	0.18	J	0.069	0.36		1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17		1
01363	Methoxychlor	72-43-5	0.53	U	0.53	1.7		1
01363	Mirex	2385-85-5	0.069	U	0.069	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. The samples were injected following maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.72	J	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1

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SSFL Area IV Collocated Soil Sampling
SL-213-SA6-SS-0.0-0.5

LLI Sample # SW 6356765
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 08:38

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0906 SDG#: DE209-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.84	U	0.84	2.5		2
10199	EFH (C15-C20)	n.a.	0.89	J	0.84	2.5		2
10199	EFH (C21-C30)	n.a.	15		0.84	2.5		2
10199	EFH (C30 - C40)	n.a.	50		0.84	2.5		2
10199	EFH (C8-C11)	n.a.	0.84	U	0.84	2.5		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,000		6.09	20.1		1
07914	Boron	7440-42-8	6.75		0.362	5.03		1
01650	Calcium	7440-70-2	22,000		2.51	20.1		1
01654	Iron	7439-89-6	32,000		13.1	101		5
01656	Lithium	7439-93-2	26.2		0.62	2.0		1
01657	Magnesium	7439-95-4	7,310		0.443	10.1		1
06958	Manganese	7439-96-5	396		0.0362	0.503		1
10145	Phosphorus	7723-14-0	431		0.352	10.1		1
01662	Potassium	7440-09-7	5,290		11.4	50.3		1
01667	Sodium	7440-23-5	96.1	J	5.98	101		1
07968	Strontium	7440-24-6	44.9		0.0251	0.503		1
06969	Tin	7440-31-5	2.16	J	0.322	10.1		1
06970	Titanium	7440-32-6	1,240		0.0714	1.01		1
10146	Zirconium	7440-67-7	5.80		0.463	5.03		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.112	J	0.0774	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.84		0.0837	0.418		2
06126	Barium	7440-39-3	133		0.111	0.418		2
06127	Beryllium	7440-41-7	0.783		0.0167	0.105		2
06128	Cadmium	7440-43-9	0.340		0.0460	0.105		2
06131	Chromium	7440-47-3	30.2		0.126	0.418		2
06132	Cobalt	7440-48-4	10.7		0.0209	0.105		2
06133	Copper	7440-50-8	15.9		0.0837	0.418		2
06135	Lead	7439-92-1	10.5		0.0107	0.209		2

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Sample Description: SL-213-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-213-SA6-SS-0.0-0.5

LLI Sample # SW 6356765
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 08:38

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0906 SDG#: DE209-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg		mg/kg	mg/kg	mg/kg	
06138	Molybdenum	7439-98-7	0.425		0.0523	0.105		2
06139	Nickel	7440-02-0	21.6		0.105	0.418		2
06141	Selenium	7782-49-2	0.139	J	0.0607	0.418		2
06142	Silver	7440-22-4	0.0469	J	0.0149	0.105		2
06145	Thallium	7440-28-0	0.330		0.0314	0.105		2
06148	Vanadium	7440-62-2	60.3		0.0230	0.105		2
06149	Zinc	7440-66-6	69.8		0.586	3.14		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0098	J	0.0070	0.0993		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.4		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.85	1.6		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.76	J	0.21	1.0		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.88		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	4.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Sample Description: SL-213-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-213-SA6-SS-0.0-0.5

LLI Sample # SW 6356765
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 08:38

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E0906 SDG#: DE209-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11214SLG026	08/10/2011 18:14	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLD026	08/17/2011 08:13	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11217SLB026	08/11/2011 01:59	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11214SLG026	08/02/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11217SLB026	08/05/2011 14:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLD026	08/05/2011 06:15	Katheryne V Sponheimer	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112180005A	08/11/2011 13:27	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112110005A	08/03/2011 21:04	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200019A	08/10/2011 09:21	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112170021A	08/26/2011 10:40	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112170013A	08/08/2011 21:03	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112170021A	08/06/2011 08:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112170013A	08/05/2011 16:45	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200019A	08/08/2011 22:15	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112110005A	08/02/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112180005A	08/07/2011 11:15	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112110020A	07/30/2011 19:28	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112090003A	07/28/2011 12:29	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112180014A	08/11/2011 07:52	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112180015A	08/10/2011 18:54	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112180015A	08/08/2011 08:05	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	112180014A	08/08/2011 08:05	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112110020A	07/30/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112090003A	07/28/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112135708004	08/03/2011 10:30	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112135708004	08/03/2011 10:30	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708004	08/03/2011 10:30	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112135708004	08/03/2011 22:27	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	112135708004	08/03/2011 10:30	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112135708004	08/03/2011 10:30	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112135708004	08/03/2011 10:30	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112135708004	08/03/2011 10:30	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112135708004	08/03/2011 10:30	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112135708004	08/03/2011 10:30	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112135708004	08/03/2011 10:30	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112135708004	08/03/2011 10:30	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112135708004	08/03/2011 10:30	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112135708004	08/03/2011 10:30	Eric L Eby	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-213-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-213-SA6-SS-0.0-0.5

LLI Sample # SW 6356765
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Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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E0906 SDG#: DE209-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112131026003A	08/02/2011 23:20	David K Beck	2
06125	Arsenic	SW-846 6020	1	112131026003A	08/02/2011 23:20	David K Beck	2
06126	Barium	SW-846 6020	1	112131026003D	08/02/2011 23:20	David K Beck	2
06127	Beryllium	SW-846 6020	1	112131026003A	08/02/2011 23:20	David K Beck	2
06128	Cadmium	SW-846 6020	1	112131026003A	08/02/2011 23:20	David K Beck	2
06131	Chromium	SW-846 6020	1	112131026003A	08/02/2011 23:20	David K Beck	2
06132	Cobalt	SW-846 6020	1	112131026003A	08/02/2011 23:20	David K Beck	2
06133	Copper	SW-846 6020	1	112131026003A	08/02/2011 23:20	David K Beck	2
06135	Lead	SW-846 6020	1	112131026003A	08/02/2011 23:20	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112131026003C	08/02/2011 23:20	David K Beck	2
06139	Nickel	SW-846 6020	1	112131026003A	08/02/2011 23:20	David K Beck	2
06141	Selenium	SW-846 6020	1	112131026003B	08/02/2011 23:20	David K Beck	2
06142	Silver	SW-846 6020	1	112131026003A	08/02/2011 23:20	David K Beck	2
06145	Thallium	SW-846 6020	1	112131026003A	08/02/2011 23:20	David K Beck	2
06148	Vanadium	SW-846 6020	1	112131026003A	08/02/2011 23:20	David K Beck	2
06149	Zinc	SW-846 6020	1	112131026003A	08/02/2011 23:20	David K Beck	2
00159	Mercury	SW-846 7471A	1	112135711004	08/03/2011 08:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708004	08/02/2011 12:45	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026003	08/02/2011 13:07	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711004	08/02/2011 14:19	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621202A	08/04/2011 15:29	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11216621202A	08/04/2011 15:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284201A	08/05/2011 01:12	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11218243202A	08/09/2011 19:47	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11217102201B	08/08/2011 08:36	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621202A	08/04/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284201A	08/03/2011 16:50	Alex M Rittle	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11217102201B	08/05/2011 15:15	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039405A	08/02/2011 18:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11218243202A	08/06/2011 09:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401A	08/17/2011 21:17	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-217-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-217-SA6-SS-0.0-0.5

LLI Sample # SW 6356766
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:00

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0907 SDG#: DE209-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	17.4	U	17.4	34.8		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	41	J	18	350		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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SSFL Area IV Collocated Soil Sampling
SL-217-SA6-SS-0.0-0.5

LLI Sample # SW 6356766
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:00

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0907 SDG#: DE209-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.45	J	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.72	J	0.70	1.7		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-217-SA6-SS-0.0-0.5

LLI Sample # SW 6356766
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:00

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Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0907 SDG#: DE209-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4		1
10401	2,4-DB	94-82-6	0.72	J	0.65	1.8		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8		1
10401	MCPA	94-74-6	2,100		80	260		1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260		1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18		1
10401	2,4,5-TP	93-72-1	0.079	J	0.078	0.18		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17		1

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SSFL Area IV Collocated Soil Sampling
SL-217-SA6-SS-0.0-0.5

LLI Sample # SW 6356766
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Project Name: SSFL Area IV Collocated Soil Sampling

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E0907 SDG#: DE209-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17		1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17		1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6		1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.36		1
01363	p,p-DDE	72-55-9	0.21	U	0.21	0.36		1
01363	p,p-DDT	50-29-3	0.17	U	0.17	0.36		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17		1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.36		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36		1
01363	Endrin	72-20-8	0.069	U	0.069	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.17	U	0.17	0.36		1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36		1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7		1
01363	Mirex	2385-85-5	0.069	U	0.069	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. The samples were injected following maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	1.5	J	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1

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E0907 SDG#: DE209-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.65	J	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	5.2		0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	17		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,500		6.24	20.6		1
07914	Boron	7440-42-8	8.10		0.371	5.15		1
01650	Calcium	7440-70-2	11,800		2.58	20.6		1
01654	Iron	7439-89-6	32,300		13.5	103		5
01656	Lithium	7439-93-2	27.4		0.64	2.1		1
01657	Magnesium	7439-95-4	8,010		0.454	10.3		1
06958	Manganese	7439-96-5	410		0.0371	0.515		1
10145	Phosphorus	7723-14-0	532		0.361	10.3		1
01662	Potassium	7440-09-7	6,820		11.6	51.5		1
01667	Sodium	7440-23-5	95.5	J	6.13	103		1
07968	Strontium	7440-24-6	42.1		0.0258	0.515		1
06969	Tin	7440-31-5	2.12	J	0.330	10.3		1
06970	Titanium	7440-32-6	1,230		0.0732	1.03		1
10146	Zirconium	7440-67-7	5.73		0.474	5.15		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.205	J	0.0778	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.38		0.0841	0.421		2
06126	Barium	7440-39-3	138		0.111	0.421		2
06127	Beryllium	7440-41-7	0.790		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.453		0.0463	0.105		2
06131	Chromium	7440-47-3	31.6		0.126	0.421		2
06132	Cobalt	7440-48-4	11.7		0.0210	0.105		2
06133	Copper	7440-50-8	18.0		0.0841	0.421		2
06135	Lead	7439-92-1	11.0		0.0107	0.210		2
06138	Molybdenum	7439-98-7	0.392		0.0526	0.105		2

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Sample Description: SL-217-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-217-SA6-SS-0.0-0.5

LLI Sample # SW 6356766
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:00

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0907 SDG#: DE209-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	24.0	0.105	0.421		2
06141	Selenium	7782-49-2	0.191 J	0.0610	0.421		2
06142	Silver	7440-22-4	0.0611 J	0.0149	0.105		2
06145	Thallium	7440-28-0	0.367	0.0315	0.105		2
06148	Vanadium	7440-62-2	62.0	0.0231	0.105		2
06149	Zinc	7440-66-6	83.7	0.589	3.15		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0088 J	0.0072	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7	0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.0	0.85	1.6		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5 U	9.5	31.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.67 J	0.21	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18 U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.85	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11214SLG026	08/10/2011 18:33	Matthew S Woods	1

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Sample Description: SL-217-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-217-SA6-SS-0.0-0.5

LLI Sample # SW 6356766
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:00

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0907 SDG#: DE209-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLD026	08/17/2011 08:39	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11217SLB026	08/11/2011 02:32	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11214SLG026	08/02/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11217SLB026	08/05/2011 14:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLD026	08/05/2011 06:15	Katheryne V Sponheimer	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112180005A	08/11/2011 14:09	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112110005A	08/03/2011 21:14	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200019A	08/10/2011 09:49	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112170021A	08/26/2011 10:55	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112170013A	08/08/2011 21:22	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112170021A	08/06/2011 08:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112170013A	08/05/2011 16:45	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200019A	08/08/2011 22:15	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112110005A	08/02/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112180005A	08/07/2011 11:15	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112110020A	07/30/2011 19:42	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112090003A	07/28/2011 12:42	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112180014A	08/10/2011 23:42	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112180015A	08/09/2011 06:46	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112180015A	08/08/2011 08:05	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	112180014A	08/08/2011 08:05	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112110020A	07/30/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112090003A	07/28/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112135708004	08/03/2011 10:35	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112135708004	08/03/2011 10:35	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708004	08/03/2011 10:35	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112135708004	08/03/2011 22:31	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	112135708004	08/03/2011 10:35	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112135708004	08/03/2011 10:35	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112135708004	08/03/2011 10:35	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112135708004	08/03/2011 10:35	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112135708004	08/03/2011 10:35	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112135708004	08/03/2011 10:35	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112135708004	08/03/2011 10:35	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112135708004	08/03/2011 10:35	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112135708004	08/03/2011 10:35	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112135708004	08/03/2011 10:35	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112131026003A	08/02/2011 23:23	David K Beck	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-217-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-217-SA6-SS-0.0-0.5

LLI Sample # SW 6356766
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:00

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0907 SDG#: DE209-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112131026003A	08/02/2011 23:23	David K Beck	2
06126	Barium	SW-846 6020	1	112131026003D	08/02/2011 23:23	David K Beck	2
06127	Beryllium	SW-846 6020	1	112131026003A	08/02/2011 23:23	David K Beck	2
06128	Cadmium	SW-846 6020	1	112131026003A	08/02/2011 23:23	David K Beck	2
06131	Chromium	SW-846 6020	1	112131026003A	08/02/2011 23:23	David K Beck	2
06132	Cobalt	SW-846 6020	1	112131026003A	08/02/2011 23:23	David K Beck	2
06133	Copper	SW-846 6020	1	112131026003A	08/02/2011 23:23	David K Beck	2
06135	Lead	SW-846 6020	1	112131026003A	08/02/2011 23:23	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112131026003C	08/02/2011 23:23	David K Beck	2
06139	Nickel	SW-846 6020	1	112131026003A	08/02/2011 23:23	David K Beck	2
06141	Selenium	SW-846 6020	1	112131026003B	08/02/2011 23:23	David K Beck	2
06142	Silver	SW-846 6020	1	112131026003A	08/02/2011 23:23	David K Beck	2
06145	Thallium	SW-846 6020	1	112131026003A	08/02/2011 23:23	David K Beck	2
06148	Vanadium	SW-846 6020	1	112131026003A	08/02/2011 23:23	David K Beck	2
06149	Zinc	SW-846 6020	1	112131026003A	08/02/2011 23:23	David K Beck	2
00159	Mercury	SW-846 7471A	1	112135711004	08/03/2011 08:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708004	08/02/2011 12:45	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026003	08/02/2011 13:07	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711004	08/02/2011 14:19	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621202A	08/04/2011 16:12	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11216621202A	08/04/2011 16:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284201A	08/05/2011 01:35	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11218243202A	08/09/2011 20:02	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11217102201B	08/08/2011 08:37	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621202A	08/04/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284201A	08/03/2011 16:50	Alex M Rittle	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11217102201B	08/05/2011 15:15	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039405A	08/02/2011 18:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11218243202A	08/06/2011 09:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401A	08/17/2011 21:17	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-317-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-317-SA6-SS-0.0-0.5

LLI Sample # SW 6356767
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:50

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0908 SDG#: DE209-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.5	J	16.7	33.4		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-317-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-317-SA6-SS-0.0-0.5

LLI Sample # SW 6356767
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:50

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0908 SDG#: DE209-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.42	J	0.34	1.7		1
10138	Anthracene	120-12-7	1.2	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.7		0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.9		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	7.1		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	2.3		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	7.2		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	13		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	11	J	6.1	18		1
10138	Phenanthrene	85-01-8	5.0		0.68	1.7		1
10138	Pyrene	129-00-0	8.3		0.68	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1

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Sample Description: SL-317-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-317-SA6-SS-0.0-0.5

LLI Sample # SW 6356767
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:50

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0908 SDG#: DE209-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	2.4		0.63	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	810	U	810	2,000		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-317-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-317-SA6-SS-0.0-0.5

LLI Sample # SW 6356767
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:50

Submitted: 07/27/2011 09:50
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0908 SDG#: DE209-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.66		0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.31	U	0.31	0.34		1
01363	p,p-DDE	72-55-9	0.19	J	0.067	0.34		1
01363	p,p-DDT	50-29-3	0.59		0.067	0.34		1
01363	Delta BHC	319-86-8	0.049	U	0.049	0.17		1
01363	Dieldrin	60-57-1	0.20	U	0.20	0.34		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.42	U	0.42	0.42		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.073	J	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.083	U	0.083	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. The samples were injected following maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	19		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	4.7		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1

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Sample Description: SL-317-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-317-SA6-SS-0.0-0.5

LLI Sample # SW 6356767
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:50

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0908 SDG#: DE209-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	0.73	J	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	7.5		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	24		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,300		5.95	19.7		1
07914	Boron	7440-42-8	1.00	J	0.354	4.92		1
01650	Calcium	7440-70-2	3,130		2.46	19.7		1
01654	Iron	7439-89-6	19,500		2.57	19.7		1
01656	Lithium	7439-93-2	25.8		0.61	2.0		1
01657	Magnesium	7439-95-4	4,040		0.433	9.84		1
06958	Manganese	7439-96-5	312		0.0354	0.492		1
10145	Phosphorus	7723-14-0	553		0.344	9.84		1
01662	Potassium	7440-09-7	4,270		11.1	49.2		1
01667	Sodium	7440-23-5	74.2	J	5.85	98.4		1
07968	Strontium	7440-24-6	24.2		0.0246	0.492		1
06969	Tin	7440-31-5	2.64	J	0.315	9.84		1
06970	Titanium	7440-32-6	1,020		0.0698	0.984		1
10146	Zirconium	7440-67-7	2.63	J	0.452	4.92		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.126	J	0.0735	0.199		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.56		0.0795	0.397		2
06126	Barium	7440-39-3	103		0.105	0.397		2
06127	Beryllium	7440-41-7	0.530		0.0159	0.0993		2
06128	Cadmium	7440-43-9	0.288		0.0437	0.0993		2
06131	Chromium	7440-47-3	13.7		0.119	0.397		2
06132	Cobalt	7440-48-4	4.98		0.0199	0.0993		2
06133	Copper	7440-50-8	11.1		0.0795	0.397		2
06135	Lead	7439-92-1	15.9		0.0101	0.199		2

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Sample Description: SL-317-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-317-SA6-SS-0.0-0.5

LLI Sample # SW 6356767
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:50

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0908 SDG#: DE209-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg		mg/kg	mg/kg	mg/kg	
06138	Molybdenum	7439-98-7	0.463		0.0497	0.0993		2
06139	Nickel	7440-02-0	11.4		0.0993	0.397		2
06141	Selenium	7782-49-2	0.165	J	0.0576	0.397		2
06142	Silver	7440-22-4	0.172		0.0141	0.0993		2
06145	Thallium	7440-28-0	0.252		0.0298	0.0993		2
06148	Vanadium	7440-62-2	28.4		0.0219	0.0993		2
06149	Zinc	7440-66-6	80.5		0.556	2.98		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0157	J	0.0068	0.0972		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.3		0.83	1.5		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	1.2		0.20	1.0		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	6.76		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	1.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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SSFL Area IV Collocated Soil Sampling
SL-317-SA6-SS-0.0-0.5

LLI Sample # SW 6356767
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E0908 SDG#: DE209-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11214SLG026	08/11/2011 02:55	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLD026	08/17/2011 09:04	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11217SLB026	08/11/2011 03:04	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11214SLG026	08/02/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11217SLB026	08/05/2011 14:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLD026	08/05/2011 06:15	Katheryne V Sponheimer	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112180005A	08/11/2011 14:51	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112110005A	08/03/2011 21:23	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200019A	08/10/2011 10:16	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112170021A	08/26/2011 11:09	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112170013A	08/08/2011 21:40	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112170021A	08/06/2011 08:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112170013A	08/05/2011 16:45	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200019A	08/08/2011 22:15	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112110005A	08/02/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112180005A	08/07/2011 11:15	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112110020A	07/30/2011 19:57	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112090003A	07/28/2011 12:54	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112180014A	08/10/2011 22:13	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112180015A	08/09/2011 06:23	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112180015A	08/08/2011 08:05	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	112180014A	08/08/2011 08:05	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112110020A	07/30/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112090003A	07/28/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112135708004	08/03/2011 10:39	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112135708004	08/03/2011 10:39	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708004	08/03/2011 10:39	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112135708004	08/03/2011 10:39	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112135708004	08/03/2011 10:39	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112135708004	08/03/2011 10:39	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112135708004	08/03/2011 10:39	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112135708004	08/03/2011 10:39	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112135708004	08/03/2011 10:39	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112135708004	08/03/2011 10:39	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112135708004	08/03/2011 10:39	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112135708004	08/03/2011 10:39	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112135708004	08/03/2011 10:39	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112135708004	08/03/2011 10:39	Eric L Eby	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-317-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-317-SA6-SS-0.0-0.5

LLI Sample # SW 6356767
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E0908 SDG#: DE209-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112131026003A	08/02/2011 23:26	David K Beck	2
06125	Arsenic	SW-846 6020	1	112131026003A	08/02/2011 23:26	David K Beck	2
06126	Barium	SW-846 6020	1	112131026003D	08/02/2011 23:26	David K Beck	2
06127	Beryllium	SW-846 6020	1	112131026003A	08/02/2011 23:26	David K Beck	2
06128	Cadmium	SW-846 6020	1	112131026003A	08/02/2011 23:26	David K Beck	2
06131	Chromium	SW-846 6020	1	112131026003A	08/02/2011 23:26	David K Beck	2
06132	Cobalt	SW-846 6020	1	112131026003A	08/02/2011 23:26	David K Beck	2
06133	Copper	SW-846 6020	1	112131026003A	08/02/2011 23:26	David K Beck	2
06135	Lead	SW-846 6020	1	112131026003A	08/02/2011 23:26	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112131026003C	08/02/2011 23:26	David K Beck	2
06139	Nickel	SW-846 6020	1	112131026003A	08/02/2011 23:26	David K Beck	2
06141	Selenium	SW-846 6020	1	112131026003B	08/02/2011 23:26	David K Beck	2
06142	Silver	SW-846 6020	1	112131026003A	08/02/2011 23:26	David K Beck	2
06145	Thallium	SW-846 6020	1	112131026003A	08/02/2011 23:26	David K Beck	2
06148	Vanadium	SW-846 6020	1	112131026003A	08/02/2011 23:26	David K Beck	2
06149	Zinc	SW-846 6020	1	112131026003A	08/02/2011 23:26	David K Beck	2
00159	Mercury	SW-846 7471A	1	112135711004	08/03/2011 08:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708004	08/02/2011 12:45	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026003	08/02/2011 13:07	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711004	08/02/2011 14:19	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621202A	08/04/2011 16:26	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11216621202A	08/04/2011 16:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284201A	08/05/2011 01:58	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11218243202A	08/09/2011 20:16	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11217102201B	08/08/2011 08:06	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621202A	08/04/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284201A	08/03/2011 16:50	Alex M Rittle	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11217102201B	08/05/2011 15:15	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11216039401A	08/04/2011 19:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11218243202A	08/06/2011 09:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401A	08/17/2011 21:17	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-319-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-319-SA6-SS-0.0-0.5

LLI Sample # SW 6356768
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:22

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0909 SDG#: DE209-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	16.6	U	16.6	33.3		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	63	J	17	170		1
04688	Benzo(a)pyrene	50-32-8	49	J	17	170		1
04688	Benzo(b)fluoranthene	205-99-2	65	J	17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	36	J	17	170		1
04688	Benzo(k)fluoranthene	207-08-9	40	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Chrysene	218-01-9	70	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	36	J	17	340		1
04688	Fluoranthene	206-44-0	100	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	30	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1

3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.

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SSFL Area IV Collocated Soil Sampling
SL-319-SA6-SS-0.0-0.5

LLI Sample # SW 6356768
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:22

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0909 SDG#: DE209-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenanthrene	85-01-8	33	J	17	170		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	130	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	1.6	J	0.34	1.7		1
10138	Anthracene	120-12-7	4.5		0.34	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.6	J	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	9.1	J	6.0	18		1
10138	Dibenz(a,h)anthracene	53-70-3	1.0	J	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	1.1	J	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	2.3		0.67	1.7		1
10138	Naphthalene	91-20-3	2.5		0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	11	J	6.0	18		1
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	60	U	60	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-319-SA6-SS-0.0-0.5

LLI Sample # SW 6356768
LLI Group # 1258479
Account # 13013

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14420 Albemarle Point Place
Suite 210
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E0909 SDG#: DE209-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	50	U	50	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	3.3	U	3.3	3.3		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised for 2,4-DB due to interference from the sample matrix.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	600	U	600	1,500		1

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Sample Description: SL-319-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-319-SA6-SS-0.0-0.5

LLI Sample # SW 6356768
LLI Group # 1258479
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:22

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14420 Albemarle Point Place
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E0909 SDG#: DE209-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.48	U	0.48	0.48		1
01363	p,p-DDT	50-29-3	7.9		0.33	1.7		5
01363	Delta BHC	319-86-8	0.14	U	0.14	0.17		1
01363	Dieldrin	60-57-1	0.25	U	0.25	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.26	U	0.26	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.32	U	0.32	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.83	U	0.83	0.83		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.11	U	0.11	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.40	U	0.40	0.40		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

The holding time was not met. The first trial was lost during the extraction process. The second extraction was initiated after the holding time had expired. The client was notified and the data reported.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	18		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	15		0.33	1.7		1
10225	PCB-1260	11096-82-5	24		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1

The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction. At the request of the client all results are reported from the reextraction. Similar results were not obtained in both extracts. There were no PCBs or Aroclors detected in the original extraction with low surrogate

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-319-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-319-SA6-SS-0.0-0.5

LLI Sample # SW 6356768
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E0909 SDG#: DE209-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
recoveries.								
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.81	U	0.81	2.4		2
10199	EFH (C15-C20)	n.a.	0.81	U	0.81	2.4		2
10199	EFH (C21-C30)	n.a.	12		0.81	2.4		2
10199	EFH (C30 - C40)	n.a.	48		0.81	2.4		2
10199	EFH (C8-C11)	n.a.	0.81	U	0.81	2.4		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,300		5.86	19.4		1
07914	Boron	7440-42-8	1.83	J	0.349	4.85		1
01650	Calcium	7440-70-2	2,160		2.42	19.4		1
01654	Iron	7439-89-6	15,900		2.53	19.4		1
01656	Lithium	7439-93-2	17.3		0.60	1.9		1
01657	Magnesium	7439-95-4	3,260		0.427	9.69		1
06958	Manganese	7439-96-5	210		0.0349	0.485		1
10145	Phosphorus	7723-14-0	290		0.339	9.69		1
01662	Potassium	7440-09-7	2,560		11.0	48.5		1
01667	Sodium	7440-23-5	77.1	J	5.77	96.9		1
07968	Strontium	7440-24-6	14.7		0.0242	0.485		1
06969	Tin	7440-31-5	2.20	J	0.310	9.69		1
06970	Titanium	7440-32-6	886		0.0688	0.969		1
10146	Zirconium	7440-67-7	2.31	J	0.446	4.85		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.490		0.0717	0.194		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.02		0.0776	0.388		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-319-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-319-SA6-SS-0.0-0.5

LLI Sample # SW 6356768
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:22

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0909 SDG#: DE209-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium	7440-39-3	93.9	0.103	0.388		2
06127	Beryllium	7440-41-7	0.397	0.0155	0.0969		2
06128	Cadmium	7440-43-9	0.688	0.0427	0.0969		2
06131	Chromium	7440-47-3	15.0	0.116	0.388		2
06132	Cobalt	7440-48-4	4.45	0.0194	0.0969		2
06133	Copper	7440-50-8	18.8	0.0776	0.388		2
06135	Lead	7439-92-1	32.5	0.0099	0.194		2
06138	Molybdenum	7439-98-7	0.737	0.0485	0.0969		2
06139	Nickel	7440-02-0	13.1	0.0969	0.388		2
06141	Selenium	7782-49-2	0.0855 J	0.0562	0.388		2
06142	Silver	7440-22-4	3.82	0.0138	0.0969		2
06145	Thallium	7440-28-0	0.170	0.0291	0.0969		2
06148	Vanadium	7440-62-2	28.9	0.0213	0.0969		2
06149	Zinc	7440-66-6	144	0.543	2.91		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0610 J	0.0067	0.0950		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	0.80	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.0	0.80	1.5		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1 U	9.1	30.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.2	0.20	1.0		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18 U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.63	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.81	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-319-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-319-SA6-SS-0.0-0.5

LLI Sample # SW 6356768
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:22

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0909 SDG#: DE209-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11214SLG026	08/10/2011 18:52	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLD026	08/17/2011 09:41	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11217SLB026	08/11/2011 03:37	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11214SLG026	08/02/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11217SLB026	08/05/2011 14:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLD026	08/05/2011 06:15	Katheryne V Sponheimer	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112180005A	08/11/2011 15:34	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112110005A	08/03/2011 21:33	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200019A	08/10/2011 10:44	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112250010A	08/20/2011 18:45	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112250010A	08/24/2011 06:58	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112270007A	08/17/2011 17:52	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112250010A	08/15/2011 05:30	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	112270007A	08/15/2011 16:15	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200019A	08/08/2011 22:15	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112110005A	08/02/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112180005A	08/07/2011 11:15	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112110020A	07/30/2011 20:12	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112090003A	07/28/2011 13:33	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112180014A	08/11/2011 04:09	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112180015A	08/10/2011 19:18	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112180015A	08/08/2011 08:05	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	112180014A	08/08/2011 08:05	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112110020A	07/30/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112090003A	07/28/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112135708004	08/03/2011 10:43	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112135708004	08/03/2011 10:43	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708004	08/03/2011 10:43	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112135708004	08/03/2011 10:43	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112135708004	08/03/2011 10:43	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112135708004	08/03/2011 10:43	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-319-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-319-SA6-SS-0.0-0.5

LLI Sample # SW 6356768
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:22

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0909 SDG#: DE209-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	112135708004	08/03/2011 10:43	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112135708004	08/03/2011 10:43	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112135708004	08/03/2011 10:43	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112135708004	08/03/2011 10:43	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112135708004	08/03/2011 10:43	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112135708004	08/03/2011 10:43	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112135708004	08/03/2011 10:43	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112135708004	08/03/2011 10:43	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112131026003A	08/02/2011 23:29	David K Beck	2
06125	Arsenic	SW-846 6020	1	112131026003A	08/02/2011 23:29	David K Beck	2
06126	Barium	SW-846 6020	1	112131026003D	08/02/2011 23:29	David K Beck	2
06127	Beryllium	SW-846 6020	1	112131026003A	08/02/2011 23:29	David K Beck	2
06128	Cadmium	SW-846 6020	1	112131026003A	08/02/2011 23:29	David K Beck	2
06131	Chromium	SW-846 6020	1	112131026003A	08/02/2011 23:29	David K Beck	2
06132	Cobalt	SW-846 6020	1	112131026003A	08/02/2011 23:29	David K Beck	2
06133	Copper	SW-846 6020	1	112131026003A	08/02/2011 23:29	David K Beck	2
06135	Lead	SW-846 6020	1	112131026003A	08/02/2011 23:29	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112131026003C	08/02/2011 23:29	David K Beck	2
06139	Nickel	SW-846 6020	1	112131026003A	08/02/2011 23:29	David K Beck	2
06141	Selenium	SW-846 6020	1	112131026003B	08/02/2011 23:29	David K Beck	2
06142	Silver	SW-846 6020	1	112131026003A	08/02/2011 23:29	David K Beck	2
06145	Thallium	SW-846 6020	1	112131026003A	08/02/2011 23:29	David K Beck	2
06148	Vanadium	SW-846 6020	1	112131026003A	08/02/2011 23:29	David K Beck	2
06149	Zinc	SW-846 6020	1	112131026003A	08/02/2011 23:29	David K Beck	2
00159	Mercury	SW-846 7471A	1	112135711004	08/03/2011 08:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708004	08/02/2011 12:45	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026003	08/02/2011 13:07	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711004	08/02/2011 14:19	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621202A	08/04/2011 16:40	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11216621202A	08/04/2011 16:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284201A	08/05/2011 02:21	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11218243202A	08/09/2011 20:31	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11217102201B	08/08/2011 08:07	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621202A	08/04/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284201A	08/03/2011 16:50	Alex M Rittle	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11217102201B	08/05/2011 15:15	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039405A	08/02/2011 18:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11218243202A	08/06/2011 09:20	Daniel S Smith	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-319-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-319-SA6-SS-0.0-0.5

LLI Sample # SW 6356768
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:22

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0909 SDG#: DE209-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401A	08/17/2011 21:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP08-SA6-QC-072611 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA6-QC-072611

LLI Sample # SW 6356769
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:14

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0910 SDG#: DE209-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	169	U	169	338		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	17	340		1
04688	Fluoranthene	206-44-0	19	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP08-SA6-QC-072611 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA6-QC-072611

LLI Sample # SW 6356769
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:14

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0910 SDG#: DE209-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	20	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.6		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.6		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.6		5
10138	Benzo(a)anthracene	56-55-3	3.4	U	3.4	8.6		5
10138	Benzo(a)pyrene	50-32-8	3.4	U	3.4	8.6		5
10138	Benzo(b)fluoranthene	205-99-2	5.8	J	3.4	8.6		5
10138	Benzo(g,h,i)perylene	191-24-2	3.4	U	3.4	8.6		5
10138	Benzo(k)fluoranthene	207-08-9	3.4	U	3.4	8.6		5
10138	Chrysene	218-01-9	10		1.7	8.6		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.6		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.6		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.6		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.6		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.6		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.6		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.6		5
10138	Phenanthrene	85-01-8	3.8	J	3.4	8.6		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1

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Sample Description: DUP08-SA6-QC-072611 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA6-QC-072611

LLI Sample # SW 6356769
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:14

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0910 SDG#: DE209-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.3		1
10401	2,4-DB	94-82-6	1.6	U	1.6	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	78	U	78	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised for 2,4-DB due to interference from the sample matrix.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	620	U	620	1,500		1

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DUP08-SA6-QC-072611

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E0910 SDG#: DE209-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	12	U	12	12		20
01363	p,p-DDT	50-29-3	46		1.4	7.0		20
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	10	U	10	10		20
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	4.6	U	4.6	7.0		20
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	3.8	U	3.8	7.0		20
01363	Endrin Aldehyde	7421-93-4	1.4	U	1.4	1.4		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	3.0	U	3.0	3.4		20
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	1.2	U	1.2	1.2		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. The samples were injected following maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	18		0.34	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1

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SSFL Area IV Collocated Soil Sampling
DUP08-SA6-QC-072611

LLI Sample # SW 6356769
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0910 SDG#: DE209-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.82	U	0.82	2.5		2
10199	EFH (C15-C20)	n.a.	1.3	J	0.82	2.5		2
10199	EFH (C21-C30)	n.a.	19		0.82	2.5		2
10199	EFH (C30 - C40)	n.a.	69		0.82	2.5		2
10199	EFH (C8-C11)	n.a.	0.82	U	0.82	2.5		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,500		5.98	19.8		1
07914	Boron	7440-42-8	1.66	J	0.356	4.95		1
01650	Calcium	7440-70-2	2,470		2.47	19.8		1
01654	Iron	7439-89-6	20,100		2.58	19.8		1
01656	Lithium	7439-93-2	23.3		0.61	2.0		1
01657	Magnesium	7439-95-4	4,290		0.435	9.89		1
06958	Manganese	7439-96-5	223		0.0356	0.495		1
10145	Phosphorus	7723-14-0	317		0.346	9.89		1
01662	Potassium	7440-09-7	3,020		11.2	49.5		1
01667	Sodium	7440-23-5	84.5	J	5.89	98.9		1
07968	Strontium	7440-24-6	21.7		0.0247	0.495		1
06969	Tin	7440-31-5	2.35	J	0.317	9.89		1
06970	Titanium	7440-32-6	1,000		0.0702	0.989		1
10146	Zirconium	7440-67-7	2.73	J	0.455	4.95		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.102	J	0.0754	0.204		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.39		0.0815	0.407		2
06126	Barium	7440-39-3	103		0.108	0.407		2
06127	Beryllium	7440-41-7	0.606		0.0163	0.102		2
06128	Cadmium	7440-43-9	0.376		0.0448	0.102		2
06131	Chromium	7440-47-3	17.5		0.122	0.407		2
06132	Cobalt	7440-48-4	5.43		0.0204	0.102		2
06133	Copper	7440-50-8	8.56		0.0815	0.407		2
06135	Lead	7439-92-1	8.20		0.0104	0.204		2

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SSFL Area IV Collocated Soil Sampling
DUP08-SA6-QC-072611

LLI Sample # SW 6356769
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Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E0910 SDG#: DE209-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06138	Molybdenum	7439-98-7	0.609		0.0509	0.102		2
06139	Nickel	7440-02-0	12.5		0.102	0.407		2
06141	Selenium	7782-49-2	0.189	J	0.0591	0.407		2
06142	Silver	7440-22-4	0.106		0.0145	0.102		2
06145	Thallium	7440-28-0	0.247		0.0306	0.102		2
06148	Vanadium	7440-62-2	36.4		0.0224	0.102		2
06149	Zinc	7440-66-6	57.1		0.570	3.06		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0186	J	0.0067	0.0952		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.0		0.83	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	30.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.34		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.8		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Laboratory Sample Analysis Record

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11622	21a NDMA by 1625C	EPA 1625C	1	11214SLG026	08/10/2011 19:12	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLD026	08/17/2011 10:06	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11217SLB026	08/11/2011 13:33	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11214SLG026	08/02/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11217SLB026	08/05/2011 14:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLD026	08/05/2011 06:15	Katheryne V Sponheimer	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112180005A	08/11/2011 16:16	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112110005A	08/03/2011 21:42	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200019A	08/10/2011 12:08	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112170021A	08/26/2011 12:39	Melissa McDermott	20
01363	12a Pesticides by 8081A	SW-846 8081A	1	112170021A	08/26/2011 13:54	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112170013A	08/08/2011 22:17	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112170021A	08/06/2011 08:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112170013A	08/05/2011 16:45	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200019A	08/08/2011 22:15	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112110005A	08/02/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112180005A	08/07/2011 11:15	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112110020A	07/30/2011 20:27	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112090003A	07/28/2011 13:46	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112180014A	08/11/2011 00:27	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112180015A	08/10/2011 19:42	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112180015A	08/08/2011 08:05	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	112180014A	08/08/2011 08:05	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112110020A	07/30/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112090003A	07/28/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112135708004	08/03/2011 10:48	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112135708004	08/03/2011 10:48	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708004	08/03/2011 10:48	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112135708004	08/03/2011 10:48	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112135708004	08/03/2011 10:48	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112135708004	08/03/2011 10:48	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112135708004	08/03/2011 10:48	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112135708004	08/03/2011 10:48	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112135708004	08/03/2011 10:48	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112135708004	08/03/2011 10:48	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112135708004	08/03/2011 10:48	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112135708004	08/03/2011 10:48	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112135708004	08/03/2011 10:48	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112135708004	08/03/2011 10:48	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: DUP08-SA6-QC-072611 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA6-QC-072611

LLI Sample # SW 6356769
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:14

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0910 SDG#: DE209-10FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112131026003A	08/02/2011 23:32	David K Beck	2
06125	Arsenic	SW-846 6020	1	112131026003A	08/02/2011 23:32	David K Beck	2
06126	Barium	SW-846 6020	1	112131026003D	08/02/2011 23:32	David K Beck	2
06127	Beryllium	SW-846 6020	1	112131026003A	08/02/2011 23:32	David K Beck	2
06128	Cadmium	SW-846 6020	1	112131026003A	08/02/2011 23:32	David K Beck	2
06131	Chromium	SW-846 6020	1	112131026003A	08/02/2011 23:32	David K Beck	2
06132	Cobalt	SW-846 6020	1	112131026003A	08/02/2011 23:32	David K Beck	2
06133	Copper	SW-846 6020	1	112131026003A	08/02/2011 23:32	David K Beck	2
06135	Lead	SW-846 6020	1	112131026003A	08/02/2011 23:32	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112131026003C	08/02/2011 23:32	David K Beck	2
06139	Nickel	SW-846 6020	1	112131026003A	08/02/2011 23:32	David K Beck	2
06141	Selenium	SW-846 6020	1	112131026003B	08/02/2011 23:32	David K Beck	2
06142	Silver	SW-846 6020	1	112131026003A	08/02/2011 23:32	David K Beck	2
06145	Thallium	SW-846 6020	1	112131026003A	08/02/2011 23:32	David K Beck	2
06148	Vanadium	SW-846 6020	1	112131026003A	08/02/2011 23:32	David K Beck	2
06149	Zinc	SW-846 6020	1	112131026003A	08/02/2011 23:32	David K Beck	2
00159	Mercury	SW-846 7471A	1	112135711004	08/03/2011 08:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708004	08/02/2011 12:45	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026003	08/02/2011 13:07	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711004	08/02/2011 14:19	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621202A	08/04/2011 16:55	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11216621202A	08/04/2011 16:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284201A	08/05/2011 02:44	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11218243202A	08/09/2011 20:45	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11217102201B	08/08/2011 08:08	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621202A	08/04/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284201A	08/03/2011 16:50	Alex M Rittle	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11217102201B	08/05/2011 15:15	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039405A	08/02/2011 18:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11218243202A	08/06/2011 09:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401A	08/17/2011 21:17	Scott W Freisher	1

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Analysis Report

Sample Description: SL-077-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA6-SB-4.0-5.0

LLI Sample # SW 6356770
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:30

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0911 SDG#: DE209-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-077-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA6-SB-4.0-5.0

LLI Sample # SW 6356770
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:30

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0911 SDG#: DE209-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.78	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.0	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.2	J	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	2.1		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	1.2	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.84	J	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.86	J	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	1.8	U	1.8	9.1		207.64
	Reporting limits were raised due to sample foaming.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	8.1		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1

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Sample Description: SL-077-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA6-SB-4.0-5.0

LLI Sample # SW 6356770
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:30

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0911 SDG#: DE209-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	3.6		0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.88	U	0.88	2.6		2
10199	EFH (C15-C20)	n.a.	0.88	U	0.88	2.6		2
10199	EFH (C21-C30)	n.a.	12		0.88	2.6		2
10199	EFH (C30 - C40)	n.a.	43		0.88	2.6		2
10199	EFH (C8-C11)	n.a.	0.88	U	0.88	2.6		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,500		6.49	21.5		1
07914	Boron	7440-42-8	1.79	J	0.386	5.36		1
01650	Calcium	7440-70-2	17,400		2.68	21.5		1
01654	Iron	7439-89-6	20,400		2.80	21.5		1
01656	Lithium	7439-93-2	22.9		0.67	2.1		1
01657	Magnesium	7439-95-4	5,460		0.472	10.7		1
06958	Manganese	7439-96-5	274		0.0386	0.536		1
10145	Phosphorus	7723-14-0	461		0.375	10.7		1
01662	Potassium	7440-09-7	3,240		12.1	53.6		1
01667	Sodium	7440-23-5	163		6.38	107		1
07968	Strontium	7440-24-6	41.6		0.0268	0.536		1
06969	Tin	7440-31-5	2.26	J	0.343	10.7		1
06970	Titanium	7440-32-6	1,100		0.0762	1.07		1
10146	Zirconium	7440-67-7	3.41	J	0.493	5.36		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-077-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA6-SB-4.0-5.0

LLI Sample # SW 6356770
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:30

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0911 SDG#: DE209-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0802 U	0.0802	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.95	0.0867	0.433		2
06126	Barium	7440-39-3	76.2	0.115	0.433		2
06127	Beryllium	7440-41-7	0.352	0.0173	0.108		2
06128	Cadmium	7440-43-9	0.118	0.0477	0.108		2
06131	Chromium	7440-47-3	13.9	0.130	0.433		2
06132	Cobalt	7440-48-4	5.57	0.0217	0.108		2
06133	Copper	7440-50-8	8.98	0.0867	0.433		2
06135	Lead	7439-92-1	4.88	0.0110	0.217		2
06138	Molybdenum	7439-98-7	0.325	0.0542	0.108		2
06139	Nickel	7440-02-0	8.77	0.108	0.433		2
06141	Selenium	7782-49-2	0.0765 J	0.0628	0.433		2
06142	Silver	7440-22-4	0.0176 J	0.0154	0.108		2
06145	Thallium	7440-28-0	0.160	0.0325	0.108		2
06148	Vanadium	7440-62-2	30.9	0.0238	0.108		2
06149	Zinc	7440-66-6	45.2	0.607	3.25		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0222 J	0.0074	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4	0.87	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42 J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.83	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: SL-077-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA6-SB-4.0-5.0

LLI Sample # SW 6356770
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:30

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0911 SDG#: DE209-11

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-077-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLD026	08/17/2011 10:31	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11217SLB026	08/11/2011 14:05	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11217SLB026	08/05/2011 14:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLD026	08/05/2011 06:15	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11209A34A	07/28/2011 15:59	Marie D John	207.64
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120825037	07/27/2011 13:26	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201120825037	07/27/2011 13:26	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112170013A	08/08/2011 22:36	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112170013A	08/05/2011 16:45	JoElla L Rice	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112110020A	07/30/2011 20:42	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112090003A	07/28/2011 13:59	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112180014A	08/11/2011 04:54	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112180015A	08/10/2011 20:06	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112180015A	08/08/2011 08:05	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	112180014A	08/08/2011 08:05	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112110020A	07/30/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112090003A	07/28/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112135708004	08/03/2011 10:52	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112135708004	08/03/2011 10:52	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708004	08/03/2011 10:52	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112135708004	08/03/2011 10:52	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112135708004	08/03/2011 10:52	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112135708004	08/03/2011 10:52	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112135708004	08/03/2011 10:52	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112135708004	08/03/2011 10:52	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112135708004	08/03/2011 10:52	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112135708004	08/03/2011 10:52	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112135708004	08/03/2011 10:52	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112135708004	08/03/2011 10:52	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112135708004	08/03/2011 10:52	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112135708004	08/03/2011 10:52	Eric L Eby	1

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Sample Description: SL-077-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA6-SB-4.0-5.0

LLI Sample # SW 6356770
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:30

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0911 SDG#: DE209-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112131026003A	08/02/2011 23:35	David K Beck	2
06125	Arsenic	SW-846 6020	1	112131026003A	08/02/2011 23:35	David K Beck	2
06126	Barium	SW-846 6020	1	112131026003D	08/02/2011 23:35	David K Beck	2
06127	Beryllium	SW-846 6020	1	112131026003A	08/02/2011 23:35	David K Beck	2
06128	Cadmium	SW-846 6020	1	112131026003A	08/02/2011 23:35	David K Beck	2
06131	Chromium	SW-846 6020	1	112131026003A	08/02/2011 23:35	David K Beck	2
06132	Cobalt	SW-846 6020	1	112131026003A	08/02/2011 23:35	David K Beck	2
06133	Copper	SW-846 6020	1	112131026003A	08/02/2011 23:35	David K Beck	2
06135	Lead	SW-846 6020	1	112131026003A	08/02/2011 23:35	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112131026003C	08/02/2011 23:35	David K Beck	2
06139	Nickel	SW-846 6020	1	112131026003A	08/02/2011 23:35	David K Beck	2
06141	Selenium	SW-846 6020	1	112131026003B	08/02/2011 23:35	David K Beck	2
06142	Silver	SW-846 6020	1	112131026003A	08/02/2011 23:35	David K Beck	2
06145	Thallium	SW-846 6020	1	112131026003A	08/02/2011 23:35	David K Beck	2
06148	Vanadium	SW-846 6020	1	112131026003A	08/02/2011 23:35	David K Beck	2
06149	Zinc	SW-846 6020	1	112131026003A	08/02/2011 23:35	David K Beck	2
00159	Mercury	SW-846 7471A	1	112135711004	08/03/2011 08:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708004	08/02/2011 12:45	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026003	08/02/2011 13:07	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711004	08/02/2011 14:19	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621202B	08/04/2011 17:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284201B	08/05/2011 03:07	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11218243202A	08/09/2011 21:00	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621202B	08/04/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284201B	08/03/2011 16:50	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039405B	08/02/2011 18:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11218243202A	08/06/2011 09:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401A	08/05/2011 18:47	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-077-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA6-SB-9.0-10.0

LLI Sample # SW 6356771
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:50

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0912 SDG#: DE209-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzo(a)pyrene	50-32-8	33	J	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	31	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	29	J	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-077-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA6-SB-9.0-10.0

LLI Sample # SW 6356771
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:50

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0912 SDG#: DE209-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	43	J	19	190		1
04688	Tetralin	119-64-2	190	U	190	190		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	6.4		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	41		0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	44		0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	23		0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	41		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	4.8		0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	57		0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	11		0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.7
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	16		1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1

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Sample Description: SL-077-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA6-SB-9.0-10.0

LLI Sample # SW 6356771
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:50

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0912 SDG#: DE209-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	30		0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.92	U	0.92	2.8		2
10199	EFH (C15-C20)	n.a.	0.94	J	0.92	2.8		2
10199	EFH (C21-C30)	n.a.	15		0.92	2.8		2
10199	EFH (C30 - C40)	n.a.	46		0.92	2.8		2
10199	EFH (C8-C11)	n.a.	0.92	U	0.92	2.8		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,600		6.98	23.1		1
07914	Boron	7440-42-8	4.10	J	0.415	5.77		1
01650	Calcium	7440-70-2	34,300		2.88	23.1		1
01654	Iron	7439-89-6	23,000		3.01	23.1		1
01656	Lithium	7439-93-2	22.5		0.72	2.3		1
01657	Magnesium	7439-95-4	6,000		0.507	11.5		1
06958	Manganese	7439-96-5	278		0.0415	0.577		1
10145	Phosphorus	7723-14-0	493		0.404	11.5		1
01662	Potassium	7440-09-7	3,880		13.0	57.7		1
01667	Sodium	7440-23-5	234		6.86	115		1
07968	Strontium	7440-24-6	68.3		0.0288	0.577		1
06969	Tin	7440-31-5	2.33	J	0.369	11.5		1
06970	Titanium	7440-32-6	1,030		0.0819	1.15		1
10146	Zirconium	7440-67-7	4.55	J	0.531	5.77		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-077-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA6-SB-9.0-10.0

LLI Sample # SW 6356771
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:50

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0912 SDG#: DE209-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0869 J	0.0821	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.21	0.0887	0.444		2
06126	Barium	7440-39-3	96.8	0.118	0.444		2
06127	Beryllium	7440-41-7	0.572	0.0177	0.111		2
06128	Cadmium	7440-43-9	0.236	0.0488	0.111		2
06131	Chromium	7440-47-3	24.0	0.133	0.444		2
06132	Cobalt	7440-48-4	8.27	0.0222	0.111		2
06133	Copper	7440-50-8	13.9	0.0887	0.444		2
06135	Lead	7439-92-1	8.22	0.0113	0.222		2
06138	Molybdenum	7439-98-7	0.754	0.0555	0.111		2
06139	Nickel	7440-02-0	14.8	0.111	0.444		2
06141	Selenium	7782-49-2	0.169 J	0.0643	0.444		2
06142	Silver	7440-22-4	0.0254 J	0.0157	0.111		2
06145	Thallium	7440-28-0	0.278	0.0333	0.111		2
06148	Vanadium	7440-62-2	50.5	0.0244	0.111		2
06149	Zinc	7440-66-6	61.6	0.621	3.33		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.421	0.0079	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.36	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: SL-077-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA6-SB-9.0-10.0

LLI Sample # SW 6356771
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:50

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0912 SDG#: DE209-12

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-077-SA6-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLD026	08/17/2011 10:56	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11217SLB026	08/11/2011 14:37	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11217SLB026	08/05/2011 14:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLD026	08/05/2011 06:15	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11209A34A	07/28/2011 16:35	Marie D John	20.7
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120825037	07/27/2011 13:28	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201120825037	07/27/2011 13:28	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112170013A	08/08/2011 22:54	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112170013A	08/05/2011 16:45	JoElla L Rice	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112110020A	07/30/2011 20:57	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112090003A	07/28/2011 14:11	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112180014A	08/11/2011 05:39	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112180015A	08/10/2011 20:30	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112180015A	08/08/2011 08:05	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	112180014A	08/08/2011 08:05	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112110020A	07/30/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112090003A	07/28/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112135708004	08/03/2011 10:56	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112135708004	08/03/2011 10:56	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708004	08/03/2011 10:56	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112135708004	08/03/2011 10:56	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112135708004	08/03/2011 10:56	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112135708004	08/03/2011 10:56	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112135708004	08/03/2011 10:56	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112135708004	08/03/2011 10:56	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112135708004	08/03/2011 10:56	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112135708004	08/03/2011 10:56	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112135708004	08/03/2011 10:56	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112135708004	08/03/2011 10:56	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112135708004	08/03/2011 10:56	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112135708004	08/03/2011 10:56	Eric L Eby	1

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Sample Description: SL-077-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA6-SB-9.0-10.0

LLI Sample # SW 6356771
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0912 SDG#: DE209-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112131026003A	08/02/2011 23:38	David K Beck	2
06125	Arsenic	SW-846 6020	1	112131026003A	08/02/2011 23:38	David K Beck	2
06126	Barium	SW-846 6020	1	112131026003D	08/02/2011 23:38	David K Beck	2
06127	Beryllium	SW-846 6020	1	112131026003A	08/02/2011 23:38	David K Beck	2
06128	Cadmium	SW-846 6020	1	112131026003A	08/02/2011 23:38	David K Beck	2
06131	Chromium	SW-846 6020	1	112131026003A	08/02/2011 23:38	David K Beck	2
06132	Cobalt	SW-846 6020	1	112131026003A	08/02/2011 23:38	David K Beck	2
06133	Copper	SW-846 6020	1	112131026003A	08/02/2011 23:38	David K Beck	2
06135	Lead	SW-846 6020	1	112131026003A	08/02/2011 23:38	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112131026003C	08/02/2011 23:38	David K Beck	2
06139	Nickel	SW-846 6020	1	112131026003A	08/02/2011 23:38	David K Beck	2
06141	Selenium	SW-846 6020	1	112131026003B	08/02/2011 23:38	David K Beck	2
06142	Silver	SW-846 6020	1	112131026003A	08/02/2011 23:38	David K Beck	2
06145	Thallium	SW-846 6020	1	112131026003A	08/02/2011 23:38	David K Beck	2
06148	Vanadium	SW-846 6020	1	112131026003A	08/02/2011 23:38	David K Beck	2
06149	Zinc	SW-846 6020	1	112131026003A	08/02/2011 23:38	David K Beck	2
00159	Mercury	SW-846 7471A	1	112135711004	08/03/2011 08:38	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708004	08/02/2011 12:45	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026003	08/02/2011 13:07	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711004	08/02/2011 14:19	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621202B	08/04/2011 17:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284201B	08/05/2011 04:39	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11218243202A	08/09/2011 21:14	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621202B	08/04/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284201B	08/03/2011 16:50	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039405B	08/02/2011 18:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11218243202A	08/06/2011 09:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401A	08/05/2011 18:47	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-080-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA6-SB-3.5-4.5

LLI Sample # SW 6356772
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:50

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0913 SDG#: DE209-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	70	U	70	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1

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SSFL Area IV Collocated Soil Sampling
SL-080-SA6-SB-3.5-4.5

LLI Sample # SW 6356772
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:50

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E0913 SDG#: DE209-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.7		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		22.01
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1

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SSFL Area IV Collocated Soil Sampling
SL-080-SA6-SB-3.5-4.5

LLI Sample # SW 6356772
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:50

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E0913 SDG#: DE209-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
	The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	7,240		6.27	20.7		1
07914	Boron	7440-42-8	0.373	U	0.373	5.18		1
01650	Calcium	7440-70-2	3,010		2.59	20.7		1
01654	Iron	7439-89-6	13,300		2.71	20.7		1
01656	Lithium	7439-93-2	7.1		0.64	2.1		1
01657	Magnesium	7439-95-4	2,930		0.456	10.4		1
06958	Manganese	7439-96-5	173		0.0373	0.518		1
10145	Phosphorus	7723-14-0	425		0.363	10.4		1
01662	Potassium	7440-09-7	1,820		11.7	51.8		1
01667	Sodium	7440-23-5	220		6.17	104		1
07968	Strontium	7440-24-6	114		0.0259	0.518		1
06969	Tin	7440-31-5	1.59	J	0.332	10.4		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-080-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA6-SB-3.5-4.5

LLI Sample # SW 6356772
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:50

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0913 SDG#: DE209-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06970	Titanium	7440-32-6	745	0.0736	1.04		1
10146	Zirconium	7440-67-7	0.852 J	0.477	5.18		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0775 U	0.0775	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	1.53	0.0838	0.419		2
06126	Barium	7440-39-3	91.5	0.111	0.419		2
06127	Beryllium	7440-41-7	0.212	0.0168	0.105		2
06128	Cadmium	7440-43-9	0.0466 J	0.0461	0.105		2
06131	Chromium	7440-47-3	7.70	0.126	0.419		2
06132	Cobalt	7440-48-4	6.05	0.0209	0.105		2
06133	Copper	7440-50-8	22.8	0.0838	0.419		2
06135	Lead	7439-92-1	2.55	0.0107	0.209		2
06138	Molybdenum	7439-98-7	0.321	0.0524	0.105		2
06139	Nickel	7440-02-0	6.06	0.105	0.419		2
06141	Selenium	7782-49-2	0.0607 U	0.0607	0.419		2
06142	Silver	7440-22-4	0.0149 J	0.0149	0.105		2
06145	Thallium	7440-28-0	0.104 J	0.0314	0.105		2
06148	Vanadium	7440-62-2	35.5	0.0230	0.105		2
06149	Zinc	7440-66-6	32.5	0.586	3.14		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0291 J	0.0071	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8	0.85	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4 U	9.4	31.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21 U	0.21	1.0		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.57	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-080-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA6-SB-3.5-4.5

LLI Sample # SW 6356772
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:50

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0913 SDG#: DE209-13

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-080-SA6-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLD026	08/17/2011 11:21	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11217SLB026	08/11/2011 16:09	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11217SLB026	08/05/2011 14:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLD026	08/05/2011 06:15	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11209A34A	07/28/2011 13:56	Marie D John	22.01
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120825037	07/27/2011 13:29	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201120825037	07/27/2011 13:30	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112170013A	08/08/2011 23:13	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112170013A	08/05/2011 16:45	JoElla L Rice	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112110020A	07/30/2011 21:11	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112090003A	07/28/2011 14:24	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112180014A	08/10/2011 22:57	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112180015A	08/09/2011 05:35	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112180015A	08/08/2011 08:05	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	112180014A	08/08/2011 08:05	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112110020A	07/30/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112090003A	07/28/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112135708004	08/03/2011 11:08	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112135708004	08/03/2011 11:08	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708004	08/03/2011 11:08	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112135708004	08/03/2011 11:08	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112135708004	08/03/2011 11:08	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112135708004	08/03/2011 11:08	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112135708004	08/03/2011 11:08	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112135708004	08/03/2011 11:08	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112135708004	08/03/2011 11:08	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112135708004	08/03/2011 11:08	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112135708004	08/03/2011 11:08	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112135708004	08/03/2011 11:08	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112135708004	08/03/2011 11:08	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112135708004	08/03/2011 11:08	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-080-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA6-SB-3.5-4.5

LLI Sample # SW 6356772
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:50

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0913 SDG#: DE209-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112131026003A	08/02/2011 23:41	David K Beck	2
06125	Arsenic	SW-846 6020	1	112131026003A	08/02/2011 23:41	David K Beck	2
06126	Barium	SW-846 6020	1	112131026003D	08/02/2011 23:41	David K Beck	2
06127	Beryllium	SW-846 6020	1	112131026003A	08/02/2011 23:41	David K Beck	2
06128	Cadmium	SW-846 6020	1	112131026003A	08/02/2011 23:41	David K Beck	2
06131	Chromium	SW-846 6020	1	112131026003A	08/02/2011 23:41	David K Beck	2
06132	Cobalt	SW-846 6020	1	112131026003A	08/02/2011 23:41	David K Beck	2
06133	Copper	SW-846 6020	1	112131026003A	08/02/2011 23:41	David K Beck	2
06135	Lead	SW-846 6020	1	112131026003A	08/02/2011 23:41	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112131026003C	08/02/2011 23:41	David K Beck	2
06139	Nickel	SW-846 6020	1	112131026003A	08/02/2011 23:41	David K Beck	2
06141	Selenium	SW-846 6020	1	112131026003B	08/02/2011 23:41	David K Beck	2
06142	Silver	SW-846 6020	1	112131026003A	08/02/2011 23:41	David K Beck	2
06145	Thallium	SW-846 6020	1	112131026003A	08/02/2011 23:41	David K Beck	2
06148	Vanadium	SW-846 6020	1	112131026003A	08/02/2011 23:41	David K Beck	2
06149	Zinc	SW-846 6020	1	112131026003A	08/02/2011 23:41	David K Beck	2
00159	Mercury	SW-846 7471A	1	112135711004	08/03/2011 08:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708004	08/02/2011 12:45	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026003	08/02/2011 13:07	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711004	08/02/2011 14:19	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621202B	08/04/2011 18:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284201B	08/05/2011 05:02	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11218243202A	08/09/2011 21:29	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621202B	08/04/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284201B	08/03/2011 16:50	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039405B	08/02/2011 18:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11218243202A	08/06/2011 09:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401A	08/05/2011 18:47	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-072611 Water
SSFL Area IV Collocated Soil Sampling
TB-072611

LLI Sample # WW 6356773
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 08:00

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0914 SDG#: DE209-14TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11215A20A	08/03/2011	14:20	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	11215A20A	08/03/2011	14:20	Linda C Pape	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: EB-SA6-SS-072611 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-072611

LLI Sample # WW 6356774
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:30

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0915 SDG#: DE209-15EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l		ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	3.56		0.498	0.996		1
	The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.							
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	61		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	30		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	30		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB-SA6-SS-072611 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-072611

LLI Sample # WW 6356774
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:30

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0915 SDG#: DE209-15EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	Tetralin	119-64-2	5	U	5	5		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.0098	U	0.0098	0.049		1
10137	Acenaphthylene	208-96-8	0.0098	U	0.0098	0.049		1
10137	Anthracene	120-12-7	0.0098	U	0.0098	0.049		1
10137	Benzo(a)anthracene	56-55-3	0.0098	U	0.0098	0.049		1
10137	Benzo(a)pyrene	50-32-8	0.0098	U	0.0098	0.049		1
10137	Benzo(b)fluoranthene	205-99-2	0.0098	U	0.0098	0.049		1
10137	Benzo(g,h,i)perylene	191-24-2	0.0098	U	0.0098	0.049		1
10137	Benzo(k)fluoranthene	207-08-9	0.0098	U	0.0098	0.049		1
10137	Butylbenzylphthalate	85-68-7	0.049	U	0.049	0.98		1
10137	Di-n-butylphthalate	84-74-2	0.14	J	0.049	0.98		1
10137	Chrysene	218-01-9	0.0098	U	0.0098	0.049		1
10137	Dibenz(a,h)anthracene	53-70-3	0.0098	U	0.0098	0.049		1
10137	Diethylphthalate	84-66-2	0.049	U	0.049	0.98		1
10137	Dimethylphthalate	131-11-3	0.049	U	0.049	0.98		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.049	U	0.049	0.98		1
10137	Fluoranthene	206-44-0	0.0098	U	0.0098	0.049		1
10137	Fluorene	86-73-7	0.0098	U	0.0098	0.049		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.0098	U	0.0098	0.049		1
10137	1-Methylnaphthalene	90-12-0	0.0098	U	0.0098	0.049		1
10137	2-Methylnaphthalene	91-57-6	0.0098	U	0.0098	0.049		1
10137	Naphthalene	91-20-3	0.11		0.029	0.049		1
10137	N-Nitrosodimethylamine	62-75-9	0.0098	U	0.0098	0.049		1
10137	Di-n-octylphthalate	117-84-0	0.049	U	0.049	0.98		1
10137	Phenanthrene	85-01-8	0.029	U	0.029	0.049		1
10137	Pyrene	129-00-0	0.0098	U	0.0098	0.049		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: dimethylphthalate							
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1

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Sample Description: EB-SA6-SS-072611 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-072611

LLI Sample # WW 6356774
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:30

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0915 SDG#: DE209-15EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/l		ug/l	ug/l	ug/l	
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.98		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
Herbicides	**SW-846 8151A**		ug/l		ug/l	ug/l	ug/l	
10407	2,4-D	94-75-7	4.8		0.17	0.52		1
10407	Dalapon	75-99-0	0.26	U	0.26	1.3		1
10407	2,4-DB	94-82-6	0.31	U	0.31	1.0		1
10407	Dicamba	1918-00-9	0.083	U	0.083	0.31		1
10407	Dinoseb	88-85-7	0.10	U	0.10	0.52		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.17	U	0.17	0.52		1
10407	MCPA	94-74-6	310	U	310	1,000		1
10407	MCPP	93-65-2	52	U	52	210		1
10407	2,4,5-T	93-76-5	1.6		0.16	0.52		10
10407	2,4,5-TP	93-72-1	0.010	U	0.010	0.052		1

The LCS/LCSD data for 2,4,5-T and dalapon is outside the QC limits. 2,4-D and 2,4,5-T were detected in the method blank. The LCS/LCSD results from the reextraction are within the limits. 2,4-D and 2,4,5-T were not detected in the

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Sample Description: **EB-SA6-SS-072611 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-072611

LLI Sample # WW 6356774
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:30

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0915 SDG#: DE209-15EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
	method blank associated with the reextraction. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. 2,4-D and 2,4,5-T were not detected in the reextract.							
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	20b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0020	U	0.0020	0.0098		1
00177	Alpha BHC	319-84-6	0.0030	U	0.0030	0.0098		1
00177	Beta BHC	319-85-7	0.0029	U	0.0029	0.0098		1
00177	Gamma BHC - Lindane	58-89-9	0.0020	U	0.0020	0.0098		1
00177	Chlordane	57-74-9	0.12	U	0.12	0.49		1
00177	p,p-DDD	72-54-8	0.0049	U	0.0049	0.020		1
00177	p,p-DDE	72-55-9	0.0049	U	0.0049	0.020		1
00177	p,p-DDT	50-29-3	0.0049	U	0.0049	0.020		1
00177	Delta BHC	319-86-8	0.0029	U	0.0029	0.0098		1
00177	Dieldrin	60-57-1	0.0052	U	0.0052	0.020		1
00177	Endosulfan I	959-98-8	0.0042	U	0.0042	0.0098		1
00177	Endosulfan II	33213-65-9	0.015	U	0.015	0.020		1
00177	Endosulfan Sulfate	1031-07-8	0.0057	U	0.0057	0.020		1
00177	Endrin	72-20-8	0.0080	U	0.0080	0.020		1
00177	Endrin Aldehyde	7421-93-4	0.020	U	0.020	0.098		1
00177	Endrin Ketone	53494-70-5	0.0049	U	0.0049	0.020		1
00177	Heptachlor	76-44-8	0.0074	J	0.0026	0.0098		1
00177	Heptachlor Epoxide	1024-57-3	0.0023	U	0.0023	0.0098		1
00177	Methoxychlor	72-43-5	0.029	U	0.029	0.098		1
00177	Mirex	2385-85-5	0.083	U	0.083	0.25		1
00177	Toxaphene	8001-35-2	0.98	U	0.98	2.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.098	U	0.098	0.49		1
10227	Aroclor 5442	12642-23-8	0.098	U	0.098	0.49		1
10227	Aroclor 5460	11126-42-4	0.098	U	0.098	0.49		1
10227	PCB-1016	12674-11-2	0.098	U	0.098	0.49		1
10227	PCB-1221	11104-28-2	0.098	U	0.098	0.49		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.49		1
10227	PCB-1242	53469-21-9	0.098	U	0.098	0.49		1
10227	PCB-1248	12672-29-6	0.098	U	0.098	0.49		1
10227	PCB-1254	11097-69-1	0.098	U	0.098	0.49		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.49		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.49		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.49		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1

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SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-072611

LLI Sample # WW 6356774
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:30

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

E0915 SDG#: DE209-15EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	20	U	20	200		1
08278	Ethylene glycol	107-21-1	20	U	20	200		1
08278	Propylene glycol	57-55-6	20	U	20	200		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.081	U	0.081	0.25		1
10319	o-Terphenyl	84-15-1	0.081	U	0.081	0.25		1
10319	p-Terphenyl	92-94-4	0.081	U	0.081	0.25		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.099	U	0.099	0.59		1
10365	EFH (C15-C20)	n.a.	0.099	U	0.099	0.59		1
10365	EFH (C21-C30)	n.a.	0.099	U	0.099	0.59		1
10365	EFH (C30 - C40)	n.a.	0.099	U	0.099	0.59		1
10365	EFH (C8-C11)	n.a.	0.099	U	0.099	0.59		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0801	U	0.0801	0.200		1
08014	Boron	7440-42-8	0.0022	U	0.0022	0.0500		1
01750	Calcium	7440-70-2	0.0705	U	0.0705	0.200		1
01754	Iron	7439-89-6	0.0141	U	0.0141	0.200		1
01756	Lithium	7439-93-2	0.0076	U	0.0076	0.0200		1
01757	Magnesium	7439-95-4	0.0067	U	0.0067	0.100		1
07058	Manganese	7439-96-5	0.00044	U	0.00044	0.0050		1
10143	Phosphorus	7723-14-0	0.0047	U	0.0047	0.100		1
01762	Potassium	7440-09-7	0.0874	U	0.0874	0.500		1
01767	Sodium	7440-23-5	0.0647	U	0.0647	1.00		1
08068	Strontium	7440-24-6	0.00022	U	0.00022	0.0050		1
07069	Tin	7440-31-5	0.0043	U	0.0043	0.0200		1
07070	Titanium	7440-32-6	0.00046	U	0.00046	0.0100		1
10144	Zirconium	7440-67-7	0.0042	U	0.0042	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00042	U	0.00042	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00069	U	0.00069	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000080	U	0.000080	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00027	U	0.00027	0.0020		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB-SA6-SS-072611 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-072611

LLI Sample # WW 6356774
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:30

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E0915 SDG#: DE209-15EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06042	Silver	7440-22-4	0.000098 U	0.000098	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00018 U	0.00018	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000043 J	0.000026	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	16b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	17b pH by 9040B	n.a.	5.4	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11211WAE026	08/12/2011 15:26	Matthew S Woods	1
04678	5b SVOCs with Tetralin 8270C	SW-846 8270C	1	11210WAB026	08/18/2011 07:15	Florida A Cimino	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11210WAA026	08/15/2011 22:53	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11210WAB026	07/30/2011 07:30	Catherine R Wiker	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11210WAA026	07/29/2011 17:30	JoElla L Rice	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11211WAE026	08/01/2011 03:00	David V Hershey Jr	1
10131	15b Energetics by 8330A	SW-846 8330A	1	112100016A	08/04/2011 23:39	James H Place	1

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Sample Description: **EB-SA6-SS-072611 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-072611

LLI Sample # WW 6356774
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E0915 SDG#: DE209-15EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04144	20b Formaldehyde 8315A	SW-846 8315A	1	112080005A	07/28/2011 04:51	James H Place	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	112110015A	08/09/2011 15:51	Anita M Dale	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	112110015A	08/10/2011 13:59	Anita M Dale	10
00177	12b Pesticides by 8081A	SW-846 8081A	1	112100008A	08/02/2011 09:40	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	112100007A	08/03/2011 15:14	Sarah M Snyder	1
11117	PCB Waters Extraction	SW-846 3510C	1	112100007A	07/29/2011 17:30	JoElla L Rice	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	112100008A	07/29/2011 17:30	JoElla L Rice	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	112110015A	08/01/2011 10:40	Kelli M Barto	1
01013	Formaldehyde Extraction	SW-846 8315A	1	112080005A	07/27/2011 15:30	Kelli M Barto	1
11122	Energetics Extraction	SW-846 8330	1	112100016A	07/30/2011 08:45	Kelli M Barto	1
06624	18b Alcohols by 8015B	SW-846 8015B	1	112110023A	07/30/2011 22:40	Elizabeth J Marin	1
08278	19b Glycols by 8015B	SW-846 8015B modified	1	112130018A	08/02/2011 09:12	Dustin A Underkoffler	1
10319	22b Terphenyls by 8015B	SW-846 8015B	1	112090027A	07/30/2011 09:32	Tracy A Cole	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112130016A	08/04/2011 01:31	Tracy A Cole	1
11203	EFH Waters Extraction	SW-846 3510C	1	112130016A	08/01/2011 18:15	Kathryn I DeHaven	1
10304	Terphenyls water prep	SW-846 3510C	1	112090027A	07/28/2011 18:00	Kathryn I DeHaven	1
01743	Aluminum	SW-846 6010B	1	112081848001	07/28/2011 18:57	John P Hook	1
08014	Boron	SW-846 6010B	1	112081848001	07/28/2011 18:57	John P Hook	1
01750	Calcium	SW-846 6010B	1	112081848001	07/28/2011 18:57	John P Hook	1
01754	Iron	SW-846 6010B	1	112081848001	07/28/2011 18:57	John P Hook	1
01756	Lithium	SW-846 6010B	1	112081848001	07/28/2011 18:57	John P Hook	1
01757	Magnesium	SW-846 6010B	1	112081848001	07/28/2011 18:57	John P Hook	1
07058	Manganese	SW-846 6010B	1	112081848001	07/28/2011 18:57	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	112081848001	07/28/2011 18:57	John P Hook	1
01762	Potassium	SW-846 6010B	1	112081848001	07/28/2011 18:57	John P Hook	1
01767	Sodium	SW-846 6010B	1	112081848001	07/28/2011 18:57	John P Hook	1
08068	Strontium	SW-846 6010B	1	112081848001	07/28/2011 18:57	John P Hook	1
07069	Tin	SW-846 6010B	1	112081848001	07/28/2011 18:57	John P Hook	1
07070	Titanium	SW-846 6010B	1	112081848001	07/28/2011 18:57	John P Hook	1
10144	Zirconium	SW-846 6010B	1	112081848001	07/28/2011 18:57	John P Hook	1
06024	Antimony	SW-846 6020	1	112086050002A	07/28/2011 19:22	David K Beck	1
06025	Arsenic	SW-846 6020	1	112086050002A	07/28/2011 19:22	David K Beck	1
06026	Barium	SW-846 6020	1	112086050002D	07/28/2011 19:22	David K Beck	1
06027	Beryllium	SW-846 6020	1	112086050002A	07/28/2011 19:22	David K Beck	1
06028	Cadmium	SW-846 6020	1	112086050002A	07/28/2011 19:22	David K Beck	1
06031	Chromium	SW-846 6020	1	112086050002A	07/28/2011 19:22	David K Beck	1
06032	Cobalt	SW-846 6020	1	112086050002A	07/28/2011 19:22	David K Beck	1
06033	Copper	SW-846 6020	1	112086050002A	07/28/2011 19:22	David K Beck	1
06035	Lead	SW-846 6020	1	112086050002A	07/28/2011 19:22	David K Beck	1
06038	Molybdenum	SW-846 6020	1	112086050002C	07/28/2011 19:22	David K Beck	1
06039	Nickel	SW-846 6020	1	112086050002A	07/28/2011 19:22	David K Beck	1
06041	Selenium	SW-846 6020	1	112086050002B	07/28/2011 19:22	David K Beck	1
06042	Silver	SW-846 6020	1	112086050002A	07/28/2011 19:22	David K Beck	1
06045	Thallium	SW-846 6020	1	112086050002A	07/28/2011 19:22	David K Beck	1
06048	Vanadium	SW-846 6020	1	112086050002A	07/28/2011 19:22	David K Beck	1
06049	Zinc	SW-846 6020	1	112086050002A	07/28/2011 19:22	David K Beck	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA6-SS-072611 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-072611

LLI Sample # WW 6356774
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:30

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0915 SDG#: DE209-15EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	112105713003	08/01/2011 08:23	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	112081848001	07/28/2011 09:34	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	112086050002	07/28/2011 10:23	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	112105713003	07/29/2011 11:15	Damary Valentin	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11208196602C	07/28/2011 12:00	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11208196602C	07/28/2011 12:00	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11209281101B	07/28/2011 17:57	Elyse P Brunstetter	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11208281401B	07/27/2011 11:12	Elyse P Brunstetter	1
08255	16b Cyanide by 9012B	SW-846 9012B	1	11220117101B	08/08/2011 15:17	Venia B McFadden	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11220117101B	08/08/2011 09:20	Nancy J Shoop	1
00200	17b pH by 9040B	SW-846 9040B	1	11209020002A	07/28/2011 16:45	Luz M Groff	1

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Analysis Report

Sample Description: SL-311-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-311-SA6-SS-0.0-0.5

LLI Sample # SW 6356775
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:31

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0616 SDG#: DE209-16*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	169	U	169	337		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	26	J	17	170		1
04688	Benzo(a)pyrene	50-32-8	32	J	17	170		1
04688	Benzo(b)fluoranthene	205-99-2	49	J	17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	42	J	17	170		1
04688	Benzo(k)fluoranthene	207-08-9	25	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	21	J	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	32	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-311-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-311-SA6-SS-0.0-0.5

LLI Sample # SW 6356775
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:31

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0616 SDG#: DE209-16*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	60	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.5		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.5		5
10138	Anthracene	120-12-7	4.3	J	1.7	8.5		5
10138	Chrysene	218-01-9	59		1.7	8.5		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	J	3.4	8.5		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	380		31	92		5
10138	Fluoranthene	206-44-0	72		3.4	8.5		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.5		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.5		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.5		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.5		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.5		5
10138	Phenanthrene	85-01-8	27		3.4	8.5		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1

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Sample Description: SL-311-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-311-SA6-SS-0.0-0.5

LLI Sample # SW 6356775
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:31

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0616 SDG#: DE209-16*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	14		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	390	U	390	390		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.11	J	0.077	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised for MCPA due to interference from the sample matrix.

The surrogate data is outside the QC limits due to unresolvable

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Sample Description: SL-311-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-311-SA6-SS-0.0-0.5

LLI Sample # SW 6356775
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:31

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0616 SDG#: DE209-16*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	matrix problems evident in the sample chromatogram.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.34	U	0.34	0.85		5
01363	Alpha BHC	319-84-6	0.17	U	0.17	0.85		5
01363	Beta BHC	319-85-7	0.31	U	0.31	0.85		5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.85		5
01363	Chlordane	57-74-9	4.1	U	4.1	17		5
01363	p,p-DDD	72-54-8	0.34	U	0.34	1.7		5
01363	p,p-DDE	72-55-9	50	U	50	50		50
01363	p,p-DDT	50-29-3	280		13	70		200
01363	Delta BHC	319-86-8	0.18	U	0.18	0.85		5
01363	Dieldrin	60-57-1	49	U	49	49		50
01363	Endosulfan I	959-98-8	0.22	U	0.22	0.85		5
01363	Endosulfan II	33213-65-9	22		3.4	17		50
01363	Endosulfan Sulfate	1031-07-8	0.34	U	0.34	1.7		5
01363	Endrin	72-20-8	0.34	U	0.34	1.7		5
01363	Endrin Aldehyde	7421-93-4	9.4		0.34	1.7		5
01363	Endrin Ketone	53494-70-5	0.34	U	0.34	1.7		5
01363	Heptachlor	76-44-8	0.31	U	0.31	0.85		5
01363	Heptachlor Epoxide	1024-57-3	11	U	11	11		50
01363	Methoxychlor	72-43-5	1.7	U	1.7	8.5		5
01363	Mirex	2385-85-5	0.34	U	0.34	1.7		5
01363	Toxaphene	8001-35-2	11	U	11	34		5
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. The samples were injected following maintenance and a new calibration. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	10	U	10	34		10
10225	Aroclor 5442	12642-23-8	10	U	10	34		10
10225	Aroclor 5460	11126-42-4	10	U	10	34		10
10225	PCB-1016	12674-11-2	3.4	U	3.4	17		10
10225	PCB-1221	11104-28-2	3.4	U	3.4	17		10
10225	PCB-1232	11141-16-5	3.4	U	3.4	17		10
10225	PCB-1242	53469-21-9	3.4	U	3.4	17		10
10225	PCB-1248	12672-29-6	3.4	U	3.4	17		10
10225	PCB-1254	11097-69-1	220		3.4	17		10
10225	PCB-1260	11096-82-5	4.0	U	4.0	17		10
10225	PCB-1262	37324-23-5	3.4	U	3.4	17		10
10225	PCB-1268	11100-14-4	3.4	U	3.4	17		10
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-311-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-311-SA6-SS-0.0-0.5

LLI Sample # SW 6356775
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:31

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0616 SDG#: DE209-16*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	20	U	20	61		50
10199	EFH (C15-C20)	n.a.	95		20	61		50
10199	EFH (C21-C30)	n.a.	1,200		20	61		50
10199	EFH (C30 - C40)	n.a.	1,700		20	61		50
10199	EFH (C8-C11)	n.a.	20	U	20	61		50
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,500		5.89	19.5		1
07914	Boron	7440-42-8	2.45	J	0.351	4.87		1
01650	Calcium	7440-70-2	1,930		2.43	19.5		1
01654	Iron	7439-89-6	16,900		2.54	19.5		1
01656	Lithium	7439-93-2	16.7		0.60	1.9		1
01657	Magnesium	7439-95-4	3,190		0.428	9.74		1
06958	Manganese	7439-96-5	236		0.0351	0.487		1
10145	Phosphorus	7723-14-0	330		0.341	9.74		1
01662	Potassium	7440-09-7	2,780		11.0	48.7		1
01667	Sodium	7440-23-5	89.4	J	5.79	97.4		1
07968	Strontium	7440-24-6	15.2		0.0243	0.487		1
06969	Tin	7440-31-5	2.74	J	0.312	9.74		1
06970	Titanium	7440-32-6	826		0.0691	0.974		1
10146	Zirconium	7440-67-7	2.51	J	0.448	4.87		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.141	J	0.0735	0.199		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.12		0.0794	0.397		2

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Sample Description: SL-311-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-311-SA6-SS-0.0-0.5

LLI Sample # SW 6356775
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:31

Submitted: 07/27/2011 09:50
Reported: 09/09/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0616 SDG#: DE209-16*

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium		7440-39-3	86.2		0.105	0.397		2
06127	Beryllium		7440-41-7	0.379		0.0159	0.0993		2
06128	Cadmium		7440-43-9	2.41		0.0437	0.0993		2
06131	Chromium		7440-47-3	15.7		0.119	0.397		2
06132	Cobalt		7440-48-4	4.70		0.0199	0.0993		2
06133	Copper		7440-50-8	25.4		0.0794	0.397		2
06135	Lead		7439-92-1	26.1		0.0101	0.199		2
06138	Molybdenum		7439-98-7	0.850		0.0496	0.0993		2
06139	Nickel		7440-02-0	27.5		0.0993	0.397		2
06141	Selenium		7782-49-2	0.109	J	0.0576	0.397		2
06142	Silver		7440-22-4	1.39		0.0141	0.0993		2
06145	Thallium		7440-28-0	0.174		0.0298	0.0993		2
06148	Vanadium		7440-62-2	25.5		0.0218	0.0993		2
06149	Zinc		7440-66-6	98.3		0.556	2.98		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0835	J	0.0067	0.0951		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	1.9		0.81	1.0		1
07336	11a Anions by 300.0 - Nitrate		14797-55-8	3.5		0.81	1.5		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.2	U	9.2	30.7		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.96	J	0.20	1.0		1
		SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B		57-12-5	0.18	U	0.18	0.51		1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C		n.a.	6.16		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	2.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

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SSFL Area IV Collocated Soil Sampling
SL-311-SA6-SS-0.0-0.5

LLI Sample # SW 6356775
LLI Group # 1258479
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Chantilly VA 20151

E0616 SDG#: DE209-16*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11214SLG026	08/10/2011 19:31	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11216SLD026	08/17/2011 11:46	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11217SLB026	08/11/2011 16:41	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11214SLG026	08/02/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11217SLB026	08/05/2011 14:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11216SLD026	08/05/2011 06:15	Katheryne V Sponheimer	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112180005A	08/11/2011 16:59	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112110005A	08/03/2011 21:52	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200019A	08/11/2011 17:37	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112170021A	08/26/2011 12:53	Melissa McDermott	50
01363	12a Pesticides by 8081A	SW-846 8081A	1	112170021A	08/26/2011 14:08	Melissa McDermott	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112170021A	08/30/2011 02:12	Melissa McDermott	200
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112170013A	08/08/2011 23:32	Sarah M Snyder	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112170021A	08/06/2011 08:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112170013A	08/05/2011 16:45	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200019A	08/08/2011 22:15	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112110005A	08/02/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112180005A	08/07/2011 11:15	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112110020A	07/30/2011 21:26	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112090003A	07/28/2011 14:37	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112180014A	08/11/2011 09:21	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112180015A	08/09/2011 10:44	Heather E Williams	50
11238	EFH Extraction - Soils	SW-846 3550B	1	112180015A	08/08/2011 08:05	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	112180014A	08/08/2011 08:05	Olivia Arosemena	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112110020A	07/30/2011 15:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112090003A	07/28/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112135708004	08/03/2011 11:12	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112135708004	08/03/2011 11:12	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112135708004	08/03/2011 11:12	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112135708004	08/03/2011 11:12	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112135708004	08/03/2011 11:12	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112135708004	08/03/2011 11:12	Eric L Eby	1

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E0616 SDG#: DE209-16*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	112135708004	08/03/2011 11:12	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112135708004	08/03/2011 11:12	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112135708004	08/03/2011 11:12	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112135708004	08/03/2011 11:12	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112135708004	08/03/2011 11:12	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112135708004	08/03/2011 11:12	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112135708004	08/03/2011 11:12	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112135708004	08/03/2011 11:12	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112131026003A	08/02/2011 23:51	David K Beck	2
06125	Arsenic	SW-846 6020	1	112131026003A	08/02/2011 23:51	David K Beck	2
06126	Barium	SW-846 6020	1	112131026003D	08/02/2011 23:51	David K Beck	2
06127	Beryllium	SW-846 6020	1	112131026003A	08/02/2011 23:51	David K Beck	2
06128	Cadmium	SW-846 6020	1	112131026003A	08/02/2011 23:51	David K Beck	2
06131	Chromium	SW-846 6020	1	112131026003A	08/02/2011 23:51	David K Beck	2
06132	Cobalt	SW-846 6020	1	112131026003A	08/02/2011 23:51	David K Beck	2
06133	Copper	SW-846 6020	1	112131026003A	08/02/2011 23:51	David K Beck	2
06135	Lead	SW-846 6020	1	112131026003A	08/02/2011 23:51	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112131026003C	08/02/2011 23:51	David K Beck	2
06139	Nickel	SW-846 6020	1	112131026003A	08/02/2011 23:51	David K Beck	2
06141	Selenium	SW-846 6020	1	112131026003B	08/02/2011 23:51	David K Beck	2
06142	Silver	SW-846 6020	1	112131026003A	08/02/2011 23:51	David K Beck	2
06145	Thallium	SW-846 6020	1	112131026003A	08/02/2011 23:51	David K Beck	2
06148	Vanadium	SW-846 6020	1	112131026003A	08/02/2011 23:51	David K Beck	2
06149	Zinc	SW-846 6020	1	112131026003A	08/02/2011 23:51	David K Beck	2
00159	Mercury	SW-846 7471A	1	112135711004	08/03/2011 08:41	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112135708004	08/02/2011 12:45	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112131026003	08/02/2011 13:07	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112135711004	08/02/2011 14:19	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621202B	08/04/2011 18:20	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11216621202B	08/04/2011 18:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11215284201B	08/05/2011 05:25	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11218243202A	08/09/2011 21:57	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11217102201B	08/08/2011 08:09	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621202B	08/04/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11215284201B	08/03/2011 16:50	Alex M Rittle	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11217102201B	08/05/2011 15:15	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11214039405B	08/02/2011 18:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11218243202A	08/06/2011 09:20	Daniel S Smith	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-311-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-311-SA6-SS-0.0-0.5

LLI Sample # SW 6356775
LLI Group # 1258479
Account # 13013

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E0616 SDG#: DE209-16*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401A	08/17/2011 21:17	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258479
Reported: 09/09/11 at 02:37 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11210WAA026	Sample number(s): 6356774									
Acenaphthene	0.010	U	0.010	0.050	ug/l	116*	107	74-109	9	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	109	100	70-110	8	30
Anthracene	0.010	U	0.010	0.050	ug/l	110	102	66-111	8	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	111	105	72-114	5	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	97	91	60-127	7	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	113	101	58-151	12	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	88	82	57-131	7	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	102	99	59-130	4	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	52	55	40-138	6	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	98	97	56-148	1	30
Chrysene	0.010	U	0.010	0.050	ug/l	110	103	76-116	6	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	92	85	55-134	8	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	61	59	37-148	3	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	26*	30*	40-119	15	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	114	113	57-154	1	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	111	102	75-116	8	30
Fluorene	0.010	U	0.010	0.050	ug/l	116*	107	75-114	8	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	89	83	53-158	7	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	102	96	71-117	6	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	98	93	75-115	5	30
Naphthalene	0.030	U	0.030	0.050	ug/l	102	97	72-109	5	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	61	59	36-89	3	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	95	93	57-145	3	30
Phenanthrene	0.030	U	0.030	0.050	ug/l	106	99	76-111	7	30
Pyrene	0.010	U	0.010	0.050	ug/l	118	111	69-118	6	30
Batch number: 11210WAB026	Sample number(s): 6356774									
Aniline	1	U	1.	5	ug/l	79	77	38-116	4	30
Benzidine	20	U	20.	60	ug/l	71	63	34-117	12	30
Benzoic acid	6	U	6.	15	ug/l	31	44	10-69	33*	30
Benzyl alcohol	5	U	5.	15	ug/l	81	88	66-97	8	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	107	120*	75-115	12	30
Carbazole	1	U	1.	5	ug/l	106	105	75-120	1	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	97	101	70-123	4	30
4-Chloroaniline	1	U	1.	5	ug/l	67	64	24-128	5	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	97	104	74-124	7	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	104	98	77-108	6	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	98	101	62-127	4	30
2-Chloronaphthalene	2	U	2.	5	ug/l	99	92	54-132	7	30
2-Chlorophenol	1	U	1.	5	ug/l	105	102	71-114	4	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	99	95	77-114	4	30
Dibenzofuran	1	U	1.	5	ug/l	98	94	75-117	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	87	102	55-118	16	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	92	93	61-111	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	89	98	53-119	10	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258479
Reported: 09/09/11 at 02:37 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	72	69	37-117	3	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	94	101	77-117	7	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	87	96	72-110	10	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	97	102	70-130	5	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	107	101	65-126	7	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	104	91	52-131	14	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	111	99	76-119	11	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	109	106	76-118	2	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	111	119	68-127	7	30
Hexachlorobenzene	1	U	1.	5	ug/l	110	106	75-119	4	30
Hexachlorobutadiene	1	U	1.	5	ug/l	87	97	57-124	11	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	78	76	36-118	2	30
Hexachloroethane	1	U	1.	5	ug/l	89	101	52-113	12	30
Isophorone	1	U	1.	5	ug/l	98	101	74-117	3	30
2-Methylphenol	1	U	1.	5	ug/l	104	96	58-110	8	30
4-Methylphenol	2	U	2.	5	ug/l	93	87	49-108	7	30
2-Nitroaniline	1	U	1.	5	ug/l	105	93	75-120	12	30
3-Nitroaniline	1	U	1.	5	ug/l	103	91	74-113	12	30
4-Nitroaniline	1	U	1.	5	ug/l	86	78	59-100	9	30
Nitrobenzene	1	U	1.	5	ug/l	97	104	75-109	7	30
2-Nitrophenol	1	U	1.	5	ug/l	100	96	76-118	4	30
4-Nitrophenol	10	U	10.	30	ug/l	49	46	16-78	7	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	99	98	69-110	2	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	96	108	67-136	12	30
Pentachlorophenol	3	U	3.	15	ug/l	94	105	53-110	11	30
Phenol	1	U	1.	5	ug/l	58	55	21-67	4	30
Tetralin	5	U	5.	5	ug/l	83	106	70-130	24	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	89	97	71-112	8	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	113*	100	79-107	13	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	113	98	76-120	15	30
Batch number: 11211WAE026	Sample number(s): 6356774									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	102	92	70-130	11	30
Batch number: 11214SLG026	Sample number(s): 6356759-6356762,6356764-6356769,6356775									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	100		70-130		
Batch number: 11216SLD026	Sample number(s): 6356757-6356762,6356764-6356772,6356775									
Acenaphthene	17	U	17.	170	ug/kg	99		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	107		75-122		
Aniline	170 U		170.	500	ug/kg	74		20-115		
Anthracene	17	U	17.	170	ug/kg	105		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	39		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	98		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	102		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	102		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	96		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	106		67-125		
Benzoic acid	170 U		170.	500	ug/kg	102		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	98		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	88		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	107		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	102		79-112		
Carbazole	17	U	17.	170	ug/kg	104		77-113		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258479
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	36		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	101		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	98		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	115		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	83		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	101		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	92		74-115		
Chrysene	17	U	17.	170	ug/kg	96		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	99		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	95		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	93		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	92		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	93		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	60		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	98		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	98		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	96		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	99		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	97		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	85		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	85		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	99		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	103		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	106		75-117		
Fluoranthene	17	U	17.	170	ug/kg	102		78-116		
Fluorene	17	U	17.	170	ug/kg	101		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	87		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	83		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	80		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	87		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	97		64-119		
Isophorone	17	U	17.	170	ug/kg	97		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	93		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	96		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	102		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	93		66-117		
Naphthalene	17	U	17.	170	ug/kg	96		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	104		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	98		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	80		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	96		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	98		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	81		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	92		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	97		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	104		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	118		62-137		
Pentachlorophenol	170 U		170.	500	ug/kg	77		51-117		
Phenanthrene	17	U	17.	170	ug/kg	102		77-113		
Phenol	17	U	17.	170	ug/kg	100		58-112		

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Pyrene	17	U	17.	170	ug/kg	103		75-115		
Tetralin	170	U	170.	170	ug/kg	119		70-130		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	97		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	97		78-111		
Batch number: 11217SLB026	Sample number(s): 6356757-6356762,6356764-6356772,6356775									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	101		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	104		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	101		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	106		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	86		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	97		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	95		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	81		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	131		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	131		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	102		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	94		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	96		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	103		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	140		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	108		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	104		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	97		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	94		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	94		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	115		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	107		72-119		
Batch number: 11209A34A	Sample number(s): 6356770-6356772									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	68		67-119		
Batch number: 11215A20A	Sample number(s): 6356773									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	118	118	75-135	0	30
Batch number: 112100016A	Sample number(s): 6356774									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	110	110	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	107	120	50-122	12	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	107	120	50-122	12	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	110	110	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	99	99	80-120	0	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	110	110	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	100	100	65-125	0	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	100	98	75-121	2	30
Nitroglycerin	5.2	U	5.2	15	ug/l	113	108	80-120	4	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	74-120	0	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	110*	110*	69-107	0	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	100	100	80-120	0	30
PETN	6.0	U	6.0	18	ug/l	133*	133*	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	94	93	70-125	1	30
Tetryl	0.40	U	0.40	0.60	ug/l	92	86	72-141	7	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	93	88	53-129	6	30

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	110*	100	76-109	10	30
Batch number: 112180005A	Sample number(s): 6356759-6356762,6356764-6356769,6356775									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	108		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	85	91	54-134	7	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	84	90	54-134	7	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	112		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	103		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
HMX	100	U	100.	300	ug/kg	91		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	104		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	80		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	104		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	112		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	103		80-120		
PETN	800	U	800.	2,400	ug/kg	96		80-120		
RDX	50	U	50.	120	ug/kg	93		75-131		
Tetryl	61	U	61.	120	ug/kg	90		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	106		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
Batch number: 112080005A	Sample number(s): 6356774									
20b Formaldehyde 8315A	19	J	10.	50	ug/l	102	100	69-130	2	30
Batch number: 112110005A	Sample number(s): 6356759-6356762,6356764-6356769,6356775									
20a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	107		80-126		
Batch number: 112110015A	Sample number(s): 6356774									
2,4-D	84		8.0	25	ug/l	128	128	73-157	0	30
Dalapon	0.25	U	0.25	1.3	ug/l	97	105*	40-100	8	30
2,4-DB	0.30	U	0.30	1.0	ug/l	92	96	65-130	4	30
Dicamba	0.080	U	0.080	0.30	ug/l	108	116	68-135	7	30
Dinoseb	0.10	U	0.10	0.50	ug/l	70	74	32-91	6	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	124	128	76-170	3	30
MCPA	300	U	300.	1,000	ug/l	108	116	65-128	7	30
MCPP	50	U	50.	200	ug/l	112	120	67-137	7	30
2,4,5-T	23		0.75	2.5	ug/l	196*	180*	63-147	9	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	92	96	63-134	4	30
Batch number: 112200019A	Sample number(s): 6356757-6356762,6356764-6356769,6356775									
2,4-D	1.2	U	1.2	3.6	ug/kg	91		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	74		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	85		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	95		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	8*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	116		62-170		
MCPA	76	U	76.	250	ug/kg	60		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	84		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	90		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	83		68-114		

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112100007A	Sample number(s): 6356774									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	84	76	35-84	10	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	110	96	51-128	14	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	118	102	56-135	15	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 112100008A	Sample number(s): 6356774									
Aldrin	0.0020	U	0.0020	0.010	ug/l	111	101	54-159	10	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	110	110	59-146	0	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	113	103	73-147	10	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	110	110	68-128	0	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	115	115	71-139	0	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	126	126	66-130	0	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	110	105	53-126	4	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	124	113	76-148	9	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	115	110	76-132	4	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	99	92	68-128	7	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	100	95	59-144	5	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	105	105	71-142	0	30
Endrin	0.0081	U	0.0081	0.020	ug/l	110	105	52-132	5	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	100	100	68-139	0	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	100	100	69-146	0	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	110	110	57-126	0	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	112	102	73-156	10	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	120	120	52-133	0	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 112170013A	Sample number(s): 6356757-6356762,6356764-6356767,6356769-6356772,6356775									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	100	98	36-106	2	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	92		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	103		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112170021A	Sample number(s): 6356757-6356762,6356764-6356767,6356769,6356775									
Aldrin	0.066	U	0.066	0.17	ug/kg	112		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	79		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	103		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	88		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	88		60-137		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258479
Reported: 09/09/11 at 02:37 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
p,p-DDE	0.066	U	0.066	0.34	ug/kg	95		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	92		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	103		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	88		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	91		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	94		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	97		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	94		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	80		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	91		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	91		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	100		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	96		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112250010A	Sample number(s): 6356768									
Aldrin	0.066	U	0.066	0.17	ug/kg	85		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	75		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	89		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	79		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	93		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	95		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	95		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	92		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	96		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	84		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	114		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	108		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	105		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	89		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	102		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	84		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	92		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	100		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112270007A	Sample number(s): 6356768									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	83	72	36-106	14	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	91		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	105		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112090003A	Sample number(s): 6356759-6356762,6356764-6356772,6356775									
Diethylene glycol	5.0	U	5.0	10	mg/kg	106		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	105		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	98		75-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258479
Reported: 09/09/11 at 02:37 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112110020A	Sample number(s): 6356759-6356762,6356764-6356772,6356775								
Ethanol	100 U	100.	500	ug/kg	94		71-129		
Isopropanol	100 U	100.	500	ug/kg	92		75-125		
Methanol	100 U	100.	500	ug/kg	90		68-129		
Batch number: 112110023A	Sample number(s): 6356774								
Ethanol	200 U	200.	1,000	ug/l	104		66-132		
Isopropanol	200 U	200.	1,000	ug/l	100		75-125		
Methanol	200 U	200.	1,000	ug/l	100		71-140		
Batch number: 112130018A	Sample number(s): 6356774								
Diethylene glycol	20 U	20.	200	mg/l	105	110	78-126	5	20
Ethylene glycol	20 U	20.	200	mg/l	95	89	80-124	6	20
Propylene glycol	20 U	20.	200	mg/l	95	90	80-120	5	20
Batch number: 112090027A	Sample number(s): 6356774								
m-Terphenyl	0.080 U	0.080	0.25	mg/l	76	85	75-125	11	20
o-Terphenyl	0.080 U	0.080	0.25	mg/l	94	100	75-125	6	20
p-Terphenyl	0.080 U	0.080	0.25	mg/l	87	95	75-125	9	20
Batch number: 112130016A	Sample number(s): 6356774								
EFH (C12-C14)	0.10 U	0.10	0.60	mg/l	88	86	69-125	2	30
EFH (C15-C20)	0.10 U	0.10	0.60	mg/l	88	87	77-125	2	30
EFH (C21-C30)	0.10 U	0.10	0.60	mg/l	85	85	68-124	0	30
EFH (C30 - C40)	0.10 U	0.10	0.60	mg/l	87	80	80-121	8	30
EFH (C8-C11)	0.10 U	0.10	0.60	mg/l	80	74	46-103	8	30
Batch number: 112180014A	Sample number(s): 6356759-6356762,6356764-6356772,6356775								
m-Terphenyl	1.5 U	1.5	3.5	mg/kg	75		75-125		
o-Terphenyl	1.5 U	1.5	3.5	mg/kg	95		75-125		
p-Terphenyl	1.5 U	1.5	3.5	mg/kg	78		75-125		
Batch number: 112180015A	Sample number(s): 6356759-6356762,6356764-6356772,6356775								
EFH (C12-C14)	0.40 U	0.40	1.2	mg/kg	90		71-118		
EFH (C15-C20)	0.40 U	0.40	1.2	mg/kg	98		76-122		
EFH (C21-C30)	0.40 U	0.40	1.2	mg/kg	99		69-132		
EFH (C30 - C40)	0.41 J	0.40	1.2	mg/kg	94		67-127		
EFH (C8-C11)	0.40 U	0.40	1.2	mg/kg	76		54-107		
Batch number: 112081848001	Sample number(s): 6356774								
Aluminum	0.0801 U	0.0801	0.200	mg/l	98	96	90-112	1	20
Boron	0.0029 J	0.0022	0.0500	mg/l	97	98	89-110	1	20
Calcium	0.0705 U	0.0705	0.200	mg/l	103	105	90-112	2	20
Iron	0.0141 U	0.0141	0.200	mg/l	102	103	90-112	1	20
Lithium	0.0076 U	0.0076	0.0200	mg/l	100	98	80-120	1	20
Magnesium	0.0067 U	0.0067	0.100	mg/l	101	101	89-110	1	20
Manganese	0.00044 U	0.00044	0.0050	mg/l	102	103	90-110	1	20
Phosphorus	0.0047 U	0.0047	0.100	mg/l	101	101	80-120	0	20
Potassium	0.0874 U	0.0874	0.500	mg/l	101	101	85-115	0	20
Sodium	0.0647 U	0.0647	1.00	mg/l	95	95	87-114	0	20
Strontium	0.00029 J	0.00022	0.0050	mg/l	103	103	90-110	0	20
Tin	0.0043 U	0.0043	0.0200	mg/l	100	99	90-110	0	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258479
Reported: 09/09/11 at 02:37 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Titanium	0.00046 U	0.00046	0.0100	mg/l	101	101	90-113	0	20
Zirconium	0.0059 J	0.0042	0.0500	mg/l	103	102	80-120	0	20
Batch number: 112086050002A	Sample number(s): 6356774								
Antimony	0.00042 U	0.00042	0.0010	mg/l	103	107	87-110	4	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	108	103	86-111	4	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	104	104	90-113	0	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	104	102	90-114	2	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	103	103	90-118	0	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	101	98	87-113	2	20
Copper	0.00038 U	0.00038	0.0020	mg/l	103	101	90-113	1	20
Lead	0.000080 U	0.00008 0	0.0010	mg/l	99	101	90-115	2	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	106	104	90-113	2	20
Silver	0.000098 U	0.00009 8	0.00050	mg/l	103	102	90-115	1	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	108	99	89-116	8	20
Vanadium	0.00018 U	0.00018	0.00050	mg/l	102	103	89-116	1	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	105	100	90-116	5	20
Batch number: 112086050002B	Sample number(s): 6356774								
Selenium	0.00027 U	0.00027	0.0020	mg/l	105	105	85-114	0	20
Batch number: 112086050002C	Sample number(s): 6356774								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	102	101	89-115	2	20
Batch number: 112086050002D	Sample number(s): 6356774								
Barium	0.00069 U	0.00069	0.0020	mg/l	102	102	88-113	0	20
Batch number: 112105713003	Sample number(s): 6356774								
Mercury	0.00011 J	0.00002 6	0.00020	mg/l	105	105	80-120	0	20
Batch number: 112131026003A	Sample number(s): 6356757-6356772,6356775								
Antimony	0.0740 U	0.0740	0.200	mg/kg	62		40-224		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	99		78-122		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	98		80-120		
Cadmium	0.0440 U	0.0440	0.100	mg/kg	98		81-119		
Chromium	0.120 U	0.120	0.400	mg/kg	95		77-123		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	97		80-119		
Copper	0.0800 U	0.0800	0.400	mg/kg	96		78-122		
Lead	0.0102 U	0.0102	0.200	mg/kg	96		77-123		
Nickel	0.100 U	0.100	0.400	mg/kg	102		80-120		
Silver	0.0142 U	0.0142	0.100	mg/kg	98		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	99		75-124		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	105		76-124		
Zinc	0.560 U	0.560	3.00	mg/kg	99		79-121		
Batch number: 112131026003B	Sample number(s): 6356757-6356772,6356775								
Selenium	0.0580 U	0.0580	0.400	mg/kg	100		77-123		
Batch number: 112131026003C	Sample number(s): 6356757-6356772,6356775								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	101		76-123		
Batch number: 112131026003D	Sample number(s): 6356757-6356772,6356775								
Barium	0.106 U	0.106	0.400	mg/kg	98		80-120		
Batch number: 112135708004	Sample number(s): 6356757-6356772,6356775								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258479
Reported: 09/09/11 at 02:37 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aluminum	5.99	U	5.99	19.8	mg/kg	131		42-158		
Boron	0.529	J	0.356	4.95	mg/kg	95		66-134		
Calcium	6.80	J	2.48	19.8	mg/kg	98		79-121		
Iron	3.81	J	2.58	19.8	mg/kg	107		51-149		
Lithium	0.61	U	0.61	2.0	mg/kg	97		80-120		
Magnesium	0.436	U	0.436	9.90	mg/kg	110		64-136		
Manganese	0.0356	U	0.0356	0.495	mg/kg	89		78-122		
Phosphorus	1.36	J	0.347	9.90	mg/kg	102		80-120		
Potassium	11.2	U	11.2	49.5	mg/kg	108		69-131		
Sodium	5.89	U	5.89	99.0	mg/kg	99		71-129		
Strontium	0.0356	J	0.0248	0.495	mg/kg	96		81-119		
Tin	1.68	J	0.317	9.90	mg/kg	83		74-126		
Titanium	0.0703	U	0.0703	0.990	mg/kg	158		40-186		
Zirconium	0.616	J	0.455	4.95	mg/kg	99		80-120		
Batch number: 112135711004	Sample number(s): 6356757-6356772,6356775									
Mercury	0.0066	U	0.0066	0.0943	mg/kg	106		72-128		
Batch number: 11208196602C	Sample number(s): 6356774									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	106	100	90-110	6	20
11b Anions by 300.0 - Nitrate	0.050	U	0.050	0.10	mg/l	98	98	90-110	0	20
Batch number: 11208281401B	Sample number(s): 6356774									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	105	106	90-110	0	20
Batch number: 11209281101B	Sample number(s): 6356774									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	98	95	85-115	3	20
Batch number: 11215284201A	Sample number(s): 6356757-6356761,6356763-6356769									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	108		85-115		
Batch number: 11215284201B	Sample number(s): 6356770-6356772,6356775									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	108		85-115		
Batch number: 11216621202A	Sample number(s): 6356757-6356761,6356763-6356769									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	108		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	97		90-110		
Batch number: 11216621202B	Sample number(s): 6356770-6356772,6356775									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	108		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	97		90-110		
Batch number: 11217102201B	Sample number(s): 6356759-6356761,6356763-6356769,6356775									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	97		80-120		
Batch number: 11218243202A	Sample number(s): 6356757-6356761,6356763-6356772,6356775									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	96		80-120		
Batch number: 11220117101B	Sample number(s): 6356774									
16b Cyanide by 9012B	0.0050	U	0.0050	0.010	mg/l	95	96	90-110	1	20
Batch number: 11209020002A	Sample number(s): 6356774									
17b pH by 9040B						100	100	90-110	0	3
Batch number: 11214039405A	Sample number(s): 6356757-6356760,6356763-6356766,6356768-6356769									
17a pH by 9045C						100		95-105		
Batch number: 11214039405B	Sample number(s): 6356770-6356772,6356775									

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Quality Control Summary

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Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
17a pH by 9045C					100		95-105		
Batch number: 11216039401A	Sample number(s): 6356767								
17a pH by 9045C					100		95-105		
Batch number: 11217162401A	Sample number(s): 6356757-6356758,6356770-6356772								
Moisture Content by 160.3					100		80-120		
Batch number: 11229162401A	Sample number(s): 6356759-6356769,6356775								
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11214SLG026	Sample number(s): 6356759-6356762,6356764-6356769,6356775 UNSPK: 6356760								
N-Nitrosodimethylamine	102	85	70-130	16	30				
Batch number: 11216SLD026	Sample number(s): 6356757-6356762,6356764-6356772,6356775 UNSPK: 6356760								
Acenaphthene	100	96	75-115	3	30				
Acenaphthylene	105	103	81-110	2	30				
Aniline	63	59	18-116	6	30				
Anthracene	102	104	75-115	2	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	88	87	65-122	1	30				
Benzo(a)pyrene	101	99	57-126	2	30				
Benzo(b)fluoranthene	87	90	59-125	4	30				
Benzo(g,h,i)perylene	104	102	59-127	2	30				
Benzo(k)fluoranthene	103	96	56-132	7	30				
Benzoic acid	81	67	10-173	19	30				
Benzyl alcohol	95	94	67-115	1	30				
4-Bromophenyl-phenylether	94	94	67-129	0	30				
Butylbenzylphthalate	105	106	73-134	1	30				
Di-n-butylphthalate	103	106	67-123	2	30				
Carbazole	95	96	64-120	0	30				
4-Chloro-3-methylphenol	86	85	62-122	1	30				
4-Chloroaniline	30	31	13-107	4	30				
bis(2-Chloroethoxy)methane	99	98	75-104	2	30				
bis(2-Chloroethyl)ether	95	96	60-116	2	30				
bis(2-Chloroisopropyl)ether	118	119	55-142	1	30				
2-Chloronaphthalene	74	73	50-141	1	30				
2-Chlorophenol	98	99	73-121	1	30				
4-Chlorophenyl-phenylether	91	87	80-109	4	30				
Chrysene	86	83	62-128	3	30				
Dibenz(a,h)anthracene	105	103	65-125	2	30				
Dibenzofuran	93	91	71-112	2	30				
1,2-Dichlorobenzene	89	90	66-108	2	30				
1,3-Dichlorobenzene	88	89	63-109	1	30				
1,4-Dichlorobenzene	87	88	58-108	1	30				

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258479
Reported: 09/09/11 at 02:37 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
3,3'-Dichlorobenzidine	56	56	28-109	0	30				
2,4-Dichlorophenol	94	92	66-123	3	30				
Diethylphthalate	95	94	66-118	1	30				
2,4-Dimethylphenol	90	88	68-118	3	30				
3,5-Dimethylphenol	95	92	71-127	3	30				
Dimethylphthalate	97	96	64-118	1	30				
4,6-Dinitro-2-methylphenol	61	57	11-126	6	30				
2,4-Dinitrophenol	49	42	20-143	14	30				
2,4-Dinitrotoluene	88	89	56-129	0	30				
2,6-Dinitrotoluene	95	93	69-123	2	30				
1,2-Diphenylhydrazine	116	116	71-129	0	30				
bis(2-Ethylhexyl)phthalate	104	103	63-122	1	30				
Fluoranthene	84	87	73-112	3	30				
Fluorene	97	94	63-121	3	30				
Hexachlorobenzene	93	92	77-114	1	30				
Hexachlorobutadiene	84	84	62-120	0	30				
Hexachlorocyclopentadiene	36	43	10-153	16	30				
Hexachloroethane	80	82	57-109	2	30				
Indeno(1,2,3-cd)pyrene	103	102	61-126	1	30				
Isophorone	95	95	73-102	1	30				
1-Methylnaphthalene	89	89	64-122	0	30				
2-Methylnaphthalene	92	92	76-114	0	30				
2-Methylphenol	98	98	75-111	0	30				
4-Methylphenol	90	89	59-123	1	30				
Naphthalene	93	94	72-116	0	30				
2-Nitroaniline	101	98	67-125	3	30				
3-Nitroaniline	95	90	59-122	5	30				
4-Nitroaniline	77	75	41-109	3	30				
Nitrobenzene	93	94	57-125	0	30				
2-Nitrophenol	93	94	56-127	1	30				
4-Nitrophenol	73	72	37-129	3	30				
N-Nitroso-di-n-propylamine	91	93	60-116	1	30				
N-Nitrosodimethylamine	91	94	47-116	3	30				
N-Nitrosodiphenylamine	110	111	71-122	1	30				
Di-n-octylphthalate	124	119	56-126	4	30				
Pentachlorophenol	88	85	28-127	3	30				
Phenanthrene	101	101	65-125	0	30				
Phenol	100	100	58-126	0	30				
Pyrene	103	101	74-126	2	30				
Tetralin	79	93	70-130	16	30				
1,2,4-Trichlorobenzene	87	88	72-115	0	30				
2,4,5-Trichlorophenol	95	93	58-129	2	30				
2,4,6-Trichlorophenol	98	95	56-134	3	30				
Batch number: 11217SLB026	Sample number(s): 6356757-6356762,6356764-6356772,6356775 UNSPK: 6356760								
Acenaphthene	95	93	63-105	3	30				
Acenaphthylene	98	96	67-114	3	30				
Anthracene	99	100	73-115	0	30				
Benzo(a)anthracene	106	105	59-128	2	30				
Benzo(a)pyrene	81	83	58-142	1	30				
Benzo(b)fluoranthene	71	85	54-163	12	30				
Benzo(g,h,i)perylene	36	31*	33-141	12	30				
Benzo(k)fluoranthene	79	82	57-153	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258479
Reported: 09/09/11 at 02:37 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Butylbenzylphthalate	131	173	57-173	27	30				
Di-n-butylphthalate	140	166*	65-148	16	30				
Chrysene	65*	75	67-123	8	30				
Dibenz(a,h)anthracene	61	56	22-133	11	30				
Diethylphthalate	103	106	70-136	2	30				
Dimethylphthalate	102	102	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	143	266*	39-167	59*	30				
Fluoranthene	101	123	51-149	14	30				
Fluorene	99	102	66-122	2	30				
Indeno(1,2,3-cd)pyrene	71	70	21-143	2	30				
1-Methylnaphthalene	82	79	72-123	5	30				
2-Methylnaphthalene	83	80	64-103	5	30				
Naphthalene	87	85	61-102	4	30				
N-Nitrosodimethylamine	85	82	48-113	5	30				
Di-n-octylphthalate	232*	238*	40-192	1	30				
Phenanthrene	86	92	62-122	4	30				
Pyrene	79	86	51-131	6	30				
Batch number: 11209A34A	Sample number(s): 6356770-6356772 UNSPK: P355058								
9a TPH by EPA 8015B Gas C5-C12	69	73	39-118	10	30				
Batch number: 112180005A	Sample number(s): 6356759-6356762,6356764-6356769,6356775 UNSPK: 6356760								
4-Amino-2,6-Dinitrotoluene	106	106	80-127	0	50				
2-Amino-4,6-Dinitrotoluene	105	106	80-137	1	50				
1,3-Dinitrobenzene	110	110	38-166	0	50				
2,4-Dinitrotoluene	103	103	80-131	0	50				
2,6-Dinitrotoluene	105	105	80-127	0	50				
HMX	91	89	63-128	3	50				
Nitrobenzene	103	103	80-125	0	50				
Nitroglycerin	85	85	80-120	0	50				
2-Nitrotoluene	104	104	80-122	0	50				
3-Nitrotoluene	113	111	72-119	1	50				
4-Nitrotoluene	103	104	80-125	1	50				
PETN	102	102	80-121	0	50				
RDX	88	88	75-129	1	50				
Tetryl	86	81	55-174	5	50				
1,3,5-Trinitrobenzene	104	102	82-126	2	50				
2,4,6-Trinitrotoluene	109	109	82-130	0	50				
Batch number: 112110005A	Sample number(s): 6356759-6356762,6356764-6356769,6356775 UNSPK: 6356760								
20a Formaldehyde 8315A	99	105	80-120	5	50				
Batch number: 112200019A	Sample number(s): 6356757-6356762,6356764-6356769,6356775 UNSPK: 6356760								
2,4-D	104	93	17-180	11	35				
Dalapon	75	71	10-125	6	50				
2,4-DB	69	60	10-201	14	50				
Dicamba	105	99	10-190	6	50				
Dinoseb	12	12	10-46	2	35				
2,4-DP (Dichlorprop)	105	102	33-178	2	50				
MCPA	65	57	10-213	12	50				
MCPP (Mecoprop)	50	48	10-184	4	50				
2,4,5-T	134	136	10-156	2	35				
2,4,5-TP	67	45	24-141	41*	35				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258479
Reported: 09/09/11 at 02:37 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112170013A	Sample number(s): 6356757-6356762,6356764-6356767,6356769-6356772,6356775 UNSPK: 6356760								
PCB-1016	118	142	29-146	18	50				
PCB-1260	213*	340*	39-149	46	50				
Batch number: 112170021A	Sample number(s): 6356757-6356762,6356764-6356767,6356769,6356775 UNSPK: 6356760								
Aldrin	79	70	16-126	12	50				
Alpha BHC	76	74	10-129	4	50				
Beta BHC	81	88	14-147	7	50				
Gamma BHC - Lindane	76	76	10-140	0	50				
p,p-DDD	0*	0*	16-163	0	50				
p,p-DDE	1995*	2282*	18-161	13	50				
p,p-DDT	5887*	7325*	10-176	22	50				
Delta BHC	75	97	23-140	25	50				
Dieldrin	1418*	1732*	19-154	20	50				
Endosulfan I	0*	0*	16-137	0	50				
Endosulfan II	449*	1062*	28-154	81*	50				
Endosulfan Sulfate	0*	0*	21-160	0	50				
Endrin	488*	655*	11-149	29	50				
Endrin Aldehyde	627*	252*	10-148	86*	35				
Endrin Ketone	103	73	22-165	34	50				
Heptachlor	71	71	13-126	0	50				
Heptachlor Epoxide	758*	985*	13-157	26	50				
Methoxychlor	92	88	32-147	4	50				
Batch number: 112270007A	Sample number(s): 6356768 UNSPK: P361772								
PCB-1016	80	85	29-146	5	50				
PCB-1260	77	90	39-149	13	50				
Batch number: 112090003A	Sample number(s): 6356759-6356762,6356764-6356772,6356775 UNSPK: 6356760								
Diethylene glycol	15*	16*	59-109	4	20				
Ethylene glycol	50*	54*	63-107	8	20				
Propylene glycol	63	69	63-107	10	20				
Batch number: 112110020A	Sample number(s): 6356759-6356762,6356764-6356772,6356775 UNSPK: 6356760								
Ethanol	88	91	48-130	3	20				
Isopropanol	92	91	12-149	0	20				
Methanol	85	84	43-138	1	20				
Batch number: 112110023A	Sample number(s): 6356774 UNSPK: P357633								
Ethanol	104	104	62-145	0	20				
Isopropanol	100	100	73-131	0	20				
Methanol	88	92	52-159	4	20				
Batch number: 112180014A	Sample number(s): 6356759-6356762,6356764-6356772,6356775 UNSPK: 6356760								
m-Terphenyl	68*	73*	75-125	8	20				
o-Terphenyl	91	95	75-125	4	20				
p-Terphenyl	72*	73*	75-125	1	20				
Batch number: 112180015A	Sample number(s): 6356759-6356762,6356764-6356772,6356775 UNSPK: 6356760								
EFH (C12-C14)	107	0*	49-123	200*	20				
EFH (C15-C20)	102	114	49-123	6	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258479
Reported: 09/09/11 at 02:37 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
EFH (C21-C30)	291 (2)	333 (2)	49-123	5	20				
EFH (C30 - C40)	256 (2)	1383 (2)	49-123	42*	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 112131026003A	Sample number(s): 6356757-6356772,6356775 UNSPK: 6356760 BKG: 6356760								
Antimony	26*	26*	75-125	1	20	0.105 J	0.0779 J	30* (1)	20
Arsenic	133*	123	75-125	4	20	4.08	4.20	3	20
Beryllium	93	89	75-125	4	20	0.582	0.608	4	20
Cadmium	102	97	75-125	7	20	0.264	0.269	2 (1)	20
Chromium	96	93	75-125	2	20	15.8	15.8	0	20
Cobalt	97	93	75-125	8	20	5.13	4.92	4	20
Copper	102	91	75-125	9	20	7.16	7.24	1	20
Lead	124	67*	75-125	18	20	7.01	6.91	1	20
Nickel	110	99	75-125	7	20	11.2	11.0	2	20
Silver	101	98	75-125	8	20	0.120	0.0871 J	32* (1)	20
Thallium	85	73*	75-125	10	20	0.258	0.233	10 (1)	20
Vanadium	137*	123	75-125	4	20	33.4	33.7	1	20
Zinc	146 (2)	104 (2)	75-125	8	20	48.1	48.9	2	20
Batch number: 112131026003B	Sample number(s): 6356757-6356772,6356775 UNSPK: 6356760 BKG: 6356760								
Selenium	97	98	75-125	2	20	0.184 J	0.187 J	2 (1)	20
Batch number: 112131026003C	Sample number(s): 6356757-6356772,6356775 UNSPK: 6356760 BKG: 6356760								
Molybdenum	97	92	75-125	9	20	0.522	0.559	7	20
Batch number: 112131026003D	Sample number(s): 6356757-6356772,6356775 UNSPK: 6356760 BKG: 6356760								
Barium	153 (2)	126 (2)	75-125	3	20	96.7	94.6	2	20
Batch number: 112135708004	Sample number(s): 6356757-6356772,6356775 UNSPK: 6356760 BKG: 6356760								
Aluminum	1373 (2)	1370 (2)	75-125	0	20	17,600	17,100	3	20
Boron	94	94	84-115	2	20	2.51 J	2.55 J	1 (1)	20
Calcium	202 (2)	169 (2)	75-125	5	20	2,340	2,490	6	20
Iron	410 (2)	-420 (2)	75-125	4	20	19,400	19,000	2	20
Lithium	99	100	82-114	1	20	22.6	22.3	1	20
Magnesium	195 (2)	94 (2)	75-125	5	20	4,050	4,010	1	20
Manganese	108 (2)	58 (2)	75-125	10	20	217	220	1	20
Phosphorus	107	86	75-125	6	20	286	308	7	20
Potassium	120	107	75-125	4	20	2,680	2,830	5	20
Sodium	93	92	75-125	2	20	86.0 J	83.5 J	3 (1)	20
Strontium	98	97	75-115	3	20	21.1	22.1	4	20
Tin	83	84	80-110	1	20	2.31 J	2.29 J	1 (1)	20
Titanium	175 (2)	153 (2)	75-125	2	20	983	972	1	20
Zirconium	91	92	75-125	1	20	2.78 J	3.24 J	15 (1)	20
Batch number: 112135711004	Sample number(s): 6356757-6356772,6356775 UNSPK: 6356760 BKG: 6356760								
Mercury	104	99	65-135	6	20	0.0216 J	0.0159 J	30* (1)	20
Batch number: 11215284201A	Sample number(s): 6356757-6356761,6356763-6356769 UNSPK: 6356760 BKG: 6356760								
7a Perchlorate EPA 314.0	103		80-120			9.0 U	9.0 U	0 (1)	15

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258479
Reported: 09/09/11 at 02:37 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Batch number: 11215284201B	Sample number(s): 6356770-6356772,6356775 UNSPK: 6356770 BKG: 6356770										
7a Perchlorate EPA 314.0	107		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11216621202A	Sample number(s): 6356757-6356761,6356763-6356769 UNSPK: 6356760 BKG: 6356760										
11a Anions by 300.0 - Fluoride	40*		80-120			2.1		2.1		1 (1)	20
11a Anions by 300.0 - Nitrate	94		80-120			4.1		3.9		6 (1)	20
Batch number: 11216621202B	Sample number(s): 6356770-6356772,6356775 UNSPK: 6356770 BKG: 6356770										
11a Anions by 300.0 - Fluoride	82		80-120			2.2		2.7		23* (1)	20
11a Anions by 300.0 - Nitrate	94		80-120			0.86	J	1.1	J	21* (1)	20
Batch number: 11217102201B	Sample number(s): 6356759-6356761,6356763-6356769,6356775 UNSPK: 6356760 BKG: 6356760										
16a Cyanide by 9012B	100		75-125			0.18	U	0.17	U	0 (1)	20
Batch number: 11218243202A	Sample number(s): 6356757-6356761,6356763-6356772,6356775 UNSPK: 6356760 BKG: 6356760										
3a Cr VI by EPA 7199	84		75-125			0.20	U	0.48	J	200* (1)	20
Batch number: 11214039405A	Sample number(s): 6356757-6356760,6356763-6356766,6356768-6356769 BKG: 6356760										
17a pH by 9045C						6.43		6.39		1	3
Batch number: 11214039405B	Sample number(s): 6356770-6356772,6356775 BKG: 6356775										
17a pH by 9045C						6.16		6.19		0	3
Batch number: 11216039401A	Sample number(s): 6356767 BKG: 6356767										
17a pH by 9045C						6.76		6.81		1	3
Batch number: 11217162401A	Sample number(s): 6356757-6356758,6356770-6356772 BKG: 6356771										
Moisture Content by 160.3						13.3		11.4		15	20
Batch number: 11229162401A	Sample number(s): 6356759-6356769,6356775 BKG: 6356760										
28a Moisture Content by 160.3						2.7		2.5		10 (1)	20
Moisture Content by 160.3						2.7		2.5		10 (1)	20
Moisture Content by 160.3						2.7		2.5		10 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11210WAA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6356774	124	95	114
Blank	101	94	112
LCS	113	102	110
LCSD	107	96	105

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258479
Reported: 09/09/11 at 02:37 PM

Surrogate Quality Control

Limits: 40-130 45-130 45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11210WAB026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6356774	53	35	100	82	95	75
Blank	63	52	106	96	100	84
LCS	67	58	109	92	97	97
LCSD	73	55	95	99	96	88
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 21b NDMA by 1625C
Batch number: 11211WAE026

	N-Nitrosodimethylamine-d6
6356774	174*
Blank	103
LCS	89
LCSD	97
Limits:	50-150

Analysis Name: 21a NDMA by 1625C
Batch number: 11214SLG026

	N-Nitrosodimethylamine-d6
6356759	121
6356760	97
6356761	97
6356762	108
6356764	111
6356765	98
6356766	90
6356767	85
6356768	100
6356769	97
6356775	104
Blank	99
LCS	110
MS	97
MSD	108
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11216SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6356757	89	91	59	81	93	75
6356758	92	95	64	87	97	76
6356759	92	91	61	82	94	80
6356760	94	95	68	83	97	76
6356761	100	99	71	87	98	82

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258479
Reported: 09/09/11 at 02:37 PM

Surrogate Quality Control

6356762	99	99	70	86	94	82
6356764	94	96	68	86	99	77
6356765	93	94	66	85	95	80
6356766	92	93	64	83	96	78
6356767	96	97	67	89	101	81
6356768	97	96	68	89	101	80
6356769	93	94	70	89	99	78
6356770	93	94	68	86	97	79
6356771	91	92	64	82	94	76
6356772	93	89	56	87	95	81
6356775	85	88	65	82	90	73
Blank	102	101	78	88	94	83
LCS	102	101	78	88	92	81
MS	100	99	71	87	98	82
MSD	99	99	70	86	94	82
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11217SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6356757	93	89	83
6356758	83	76	71
6356759	105	93	89
6356760	91	84	78
6356761	93	92	88
6356762	95	88	83
6356764	106	95	93
6356765	101	93	91
6356766	107	96	96
6356767	108	95	96
6356768	104	92	93
6356769	82	81	80
6356770	108	101	100
6356771	92	87	84
6356772	97	93	93
6356775	87	76	70
Blank	111	109	110
LCS	105	96	104
MS	93	92	88
MSD	95	88	83
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11209A34A

	Trifluorotoluene-F
6356770	101
6356771	77
6356772	82
Blank	83
LCS	88
MS	83
MSD	83
Limits:	61-122

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258479
Reported: 09/09/11 at 02:37 PM

Surrogate Quality Control

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11215A20A

	Trifluorotoluene-F
6356773	97
Blank	98
LCS	152*
LCSD	150*
Limits:	63-135

Analysis Name: 20b Formaldehyde 8315A
Batch number: 112080005A

	Butyraldehyde
6356774	99
Blank	90
LCS	100
LCSD	93
Limits:	45-145

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 112100007A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6356774	106	95
Blank	111	86
LCS	111	93
LCSD	94	78
Limits:	30-150	45-120

Analysis Name: 12b Pesticides by 8081A
Batch number: 112100008A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6356774	104	92
Blank	102	88
LCS	108	88
LCSD	110	93
Limits:	52-141	40-144

Analysis Name: 15b Energetics by 8330A
Batch number: 112100016A

	2-Nitro-m-xylene
6356774	105
Blank	106
LCS	105
LCSD	112
Limits:	50-134

Analysis Name: 20a Formaldehyde 8315A

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258479
Reported: 09/09/11 at 02:37 PM

Surrogate Quality Control

Batch number: 112110005A

	Butyraldehyde
6356759	111
6356760	108
6356761	107
6356762	110
6356764	109
6356765	112
6356766	115
6356767	111
6356768	114
6356769	101
6356775	113
Blank	106
LCS	111
MS	107
MSD	110
Limits:	64-126

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 112110015A

	2,4-Dichlorophenylacetic acid
6356774	94
Blank	152*
LCS	106
LCSD	112
Limits:	35-144

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112170013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6356757	103	87
6356758	99	99
6356759	100	96
6356760	99	103
6356761	108	127*
6356762	104	142*
6356764	89	79
6356765	98	84
6356766	109	94
6356767	109	94
6356769	100	80
6356770	109	81
6356771	92	68
6356772	112	84
6356775	7*	10*
Blank	110	111
LCS	105	105
LCSD	108	113
MS	108	127*
MSD	104	142*

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258479
Reported: 09/09/11 at 02:37 PM

Surrogate Quality Control

Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 112170021A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6356757	91	174*
6356758	82	101
6356759	85	68
6356760	76	97
6356761	68	84
6356762	73	78
6356764	81	72
6356765	58	59
6356766	81	47
6356767	76	45
6356769	63	87
6356775	67	151*
Blank	66	89
LCS	82	120
MS	68	84
MSD	73	78
Limits:	50-130	20-120

Analysis Name: 15a Energetics by 8330A
Batch number: 112180005A

	2-Nitro-m-xylene
6356759	141
6356760	120
6356761	122
6356762	117
6356764	130
6356765	124
6356766	139
6356767	128
6356768	114
6356769	124
6356775	124
Blank	123
LCS	128
LCSD	125
MS	122
MSD	117
Limits:	80-146

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112200019A

	2,4-Dichlorophenylacetic acid
6356757	112
6356758	104
6356759	120

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258479
Reported: 09/09/11 at 02:37 PM

Surrogate Quality Control

6356760	98
6356761	85
6356762	99
6356764	86
6356765	85
6356766	82
6356767	67
6356768	94
6356769	97
6356775	11*
Blank	82
LCS	103
MS	85
MSD	99
Limits:	36-156

Analysis Name: 12a Pesticides by 8081A
Batch number: 112250010A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6356768	76	157*
Blank	71	107
LCS	74	106
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112270007A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6356768	93	110
Blank	96	117
LCS	95	102
LCSD	97	110
MS	91	91
MSD	94	97
Limits:	53-139	45-120

Analysis Name: 19a Glycols by 8015B
Batch number: 112090003A

	Tetramethylene glycol
6356759	86
6356760	80
6356761	87
6356762	82
6356764	91
6356765	81
6356766	91
6356767	102
6356768	98
6356769	86
6356770	87
6356771	82
6356772	83

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258479
Reported: 09/09/11 at 02:37 PM

Surrogate Quality Control

6356775	89
Blank	108
LCS	116
MS	87
MSD	82

Limits: 29-137

Analysis Name: 22b Terphenyls by 8015B
Batch number: 112090027A
n-Triacontane-d62

6356774	57
Blank	78
LCS	73
LCSD	78

Limits: 50-150

Analysis Name: 18a Alcohols by 8015B
Batch number: 112110020A
Acetone

6356759	115
6356760	94
6356761	95
6356762	93
6356764	113
6356765	112
6356766	109
6356767	120
6356768	99
6356769	96
6356770	89
6356771	88
6356772	85
6356775	85
Blank	94
LCS	94
MS	95
MSD	93

Limits: 42-138

Analysis Name: 18b Alcohols by 8015B
Batch number: 112110023A
Acetone

6356774	99
Blank	103
LCS	101
MS	100
MSD	102

Limits: 54-147

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258479
Reported: 09/09/11 at 02:37 PM

Surrogate Quality Control

Batch number: 112130016A

	Chlorobenzene	Orthoterphenyl
6356774	87	93
Blank	80	91
LCS	71	92
LCSD	85	93
Limits:	28-152	52-131

Analysis Name: 19b Glycols by 8015B
Batch number: 112130018A

	Tetramethylene glycol
6356774	95
Blank	103
LCS	107
LCSD	106
Limits:	77-119

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112180014A

	n-Triacontane-d62
6356759	76
6356760	50
6356761	51
6356762	50
6356764	75
6356765	132
6356766	77
6356767	76
6356768	75
6356769	52
6356770	73
6356771	72
6356772	74
6356775	188*
Blank	70
LCS	76
MS	51
MSD	50
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112180015A

	Chlorobenzene	Orthoterphenyl
6356759	70	89
6356760	74	93
6356761	77	95
6356762	83	96
6356764	102	121
6356765	68	92
6356766	75	96

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258479
Reported: 09/09/11 at 02:37 PM

Surrogate Quality Control

6356767	77	96
6356768	76	94
6356769	80	101
6356770	79	102
6356771	77	99
6356772	32*	68
6356775	106	113
Blank	80	95
LCS	85	101
MS	77	95
MSD	83	96
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 13584179 Sample# 6356757-75

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetratin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-012-SA6-SS-0.0-0.5	7/26/11	1502	SOIL	NONE	1-SS Sleeve			X	X																	
SL-012-SA6-SS-0.0-0.5	7/26/11	1502	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		X	X										
SL-013-SA6-SS-0.0-0.5	7/26/11	1439	SOIL	NONE	1-SS Sleeve			X	X																	
SL-013-SA6-SS-0.0-0.5	7/26/11	1439	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		X	X										
SL-204-SA6-SS-0.0-0.5	7/26/11	1000	SOIL	NONE	1-SS Sleeve			X	X																	
SL-204-SA6-SS-0.0-0.5	7/26/11	1000	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-205-SA6-SS-0.0-0.5MS	7/26/11	1206	SOIL	NONE	2-SS Sleeve			X	X																	
SL-205-SA6-SS-0.0-0.5MS	7/26/11	1206	SOIL	NONE	6-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-206-SA6-SS-0.0-0.5	7/26/11	0818	SOIL	NONE	1-SS Sleeve			X	X																	
SL-206-SA6-SS-0.0-0.5	7/26/11	0818	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-213-SA6-SS-0.0-0.5	7/26/11	0838	SOIL	NONE	1-SS Sleeve			X	X																	
SL-213-SA6-SS-0.0-0.5	7/26/11	0838	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-217-SA6-SS-0.0-0.5	7/26/11	0900	SOIL	NONE	1-SS Sleeve			X	X																	
SL-217-SA6-SS-0.0-0.5	7/26/11	0900	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-317-SA6-SS-0.0-0.5	7/26/11	1150	SOIL	NONE	1-SS Sleeve			X	X																	
SL-317-SA6-SS-0.0-0.5	7/26/11	1150	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-319-SA6-SS-0.0-0.5	7/26/11	1022	SOIL	NONE	1-SS Sleeve			X	X																	
SL-319-SA6-SS-0.0-0.5	7/26/11	1022	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
DUP08-SA6-QC-072611	7/26/11	1214	SOIL	NONE	1-SS Sleeve			X	X																	
DUP08-SA6-QC-072611	7/26/11	1214	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	07/26/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	7/27/11 0750	8754 3341 0325,0336,0347,0358	

acct# 13013 Ap# 1253479 sample# 6356757-75

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-077-SA6-SB-4.5	7/26/11	0935	SOIL	NONE	2-Encores												X										
SL-077-SA6-SB-4.0-5.0	7/26/11	0930	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-077-SA6-SB-9.5	7/26/11	0945	SOIL	NONE	2-Encores												X										
SL-077-SA6-SB-9.0-10.0	7/26/11	0950	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-080-SA6-SB-4.0	7/26/11	1045	SOIL	NONE	2-Encores												X										
SL-080-SA6-SB-3.5-4.5	7/26/11	1050	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X					X						X	X	X	
TB-072611	7/26/11	0800	WATER	NONE	2-40mL Vials												X										

Relinquished by: (Signature) | **Date/Time** 07/26/2011 / 1600 | **Received for Laboratory by: (Signature)**

Laboratory: Lancaster Laboratories, Inc.

Received by: (Signature) | **Date/Time** 7/26 1650 | **Airbill No.(s)** 8754 3341 0325,0336,0347,0358

acct# 13013 Cap# 1253479 Sample# 6356757-75

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C. Samplers Signatures:						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																					
EB-SA6-SS-072611	07.26.11	1130	WATER	NONE	11-1 liter ambers			X	X	X					X	X	X			X	X		X			
EB-SA6-SS-072611	07.26.11	1130	WATER	NONE	1-500 mL poly		X				X	X	X													
EB-SA6-SS-072611	07.26.11	1130	WATER	HNO3	1-500 mL poly	X																				
EB-SA6-SS-072611	07.26.11	1130	WATER	NaOH	1-500 mL glass																	X				
EB-SA6-SS-072611	07.26.11	1130	WATER	NONE	1-250 mL glass														X							
EB-SA6-SS-072611	07.26.11	1130	WATER	HCl	2-40 mL vials																				X	
EB-SA6-SS-072611	07.26.11	1130	WATER	NONE	4-40 mL vials													X						X		
Relinquished by: (*Signature*)	Date/Time 07/26/2011 / 1600		Received for Laboratory by: (*Signature*)																						Laboratory: Lancaster Laboratories, Inc.	
Received by: (*Signature*)	Date/Time 7/26/11 1650		Airbill No.(s) 8754 3341 0325,0336,0347,0358																							

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

September 02, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/27/2011
Group Number: 1258481
SDG: DX119
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-012-SA6-SS-0.0-0.5 Soil	6356786
SL-013-SA6-SS-0.0-0.5 Soil	6356787
SL-204-SA6-SS-0.0-0.5 Soil	6356788
SL-205-SA6-SS-0.0-0.5 Soil	6356789
SL-205-SA6-SS-0.0-0.5MS Soil	6356790
SL-205-SA6-SS-0.0-0.5MSD Soil	6356791
SL-206-SA6-SS-0.0-0.5 Soil	6356792
SL-213-SA6-SS-0.0-0.5 Soil	6356793
SL-217-SA6-SS-0.0-0.5 Soil	6356794
SL-317-SA6-SS-0.0-0.5 Soil	6356795
SL-319-SA6-SS-0.0-0.5 Soil	6356796

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-012-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA6-SS-0.0-0.5

LLI Sample # SW 6356786
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 15:02

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1912 SDG#: DX119-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-012-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA6-SS-0.0-0.5

LLI Sample # SW 6356786
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 15:02

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1912 SDG#: DX119-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.148	JB	0.0238	1.02	1
11031	12378-PeCDD	40321-76-4	0.411	JBQ	0.0538	5.10	1
11031	123478-HxCDD	39227-28-6	0.258	JB	0.0502	5.10	1
11031	123678-HxCDD	57653-85-7	1.41	JB	0.0511	5.10	1
11031	123789-HxCDD	19408-74-3	0.787	JB	0.0462	5.10	1
11031	1234678-HpCDD	35822-46-9	13.8	B	0.0515	5.10	1
11031	OCDD	3268-87-9	133	B	0.0313	10.2	1
11031	2378-TCDF	51207-31-9	0.196	J	0.0827	1.02	1
11031	12378-PeCDF	57117-41-6	2.10	JB	0.0635	5.10	1
11031	23478-PeCDF	57117-31-4	0.434	JB	0.0617	5.10	1
11031	123478-HxCDF	70648-26-9	1.59	JB	0.0565	5.10	1
11031	123678-HxCDF	57117-44-9	0.390	JB	0.0552	5.10	1
11031	123789-HxCDF	72918-21-9	0.100	JB	0.0509	5.10	1
11031	234678-HxCDF	60851-34-5	0.353	JB	0.0520	5.10	1
11031	1234678-HpCDF	67562-39-4	3.16	JB	0.0219	5.10	1
11031	1234789-HpCDF	55673-89-7	0.242	JB	0.0273	5.10	1
11031	OCDF	39001-02-0	8.86	JB	0.0282	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	90	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	91	21 - 178
13C12-123478-HxCDF	93	26 - 152
13C12-123678-HxCDF	94	26 - 123
13C12-234678-HxCDF	96	28 - 136
13C12-123789-HxCDF	112	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	90	26 - 138
13C12-OCDF	87	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-012-SA6-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA6-SS-0.0-0.5

LLI Sample # SW 6356786
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 15:02

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1912 SDG#: DX119-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-012-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA6-SS-0.0-0.5

LLI Sample # SW 6356786
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 15:02

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1912 SDG#: DX119-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11217001	08/10/2011 13:18	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11217001	08/05/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401A	08/05/2011 18:47	Scott W Freisher	1

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Analysis Report

Sample Description: SL-013-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA6-SS-0.0-0.5

LLI Sample # SW 6356787
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 14:39

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1913 SDG#: DX119-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA6-SS-0.0-0.5

LLI Sample # SW 6356787
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 14:39

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1913 SDG#: DX119-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	1.04	B	0.0294	0.980	1
11031	12378-PeCDD	40321-76-4	0.397	JB	0.0451	4.90	1
11031	123478-HxCDD	39227-28-6	0.541	JB	0.0539	4.90	1
11031	123678-HxCDD	57653-85-7	1.73	JB	0.0525	4.90	1
11031	123789-HxCDD	19408-74-3	1.07	JB	0.0503	4.90	1
11031	1234678-HpCDD	35822-46-9	33.7	B	0.0623	4.90	1
11031	OCDD	3268-87-9	384	B	0.0505	9.80	1
11031	2378-TCDF	51207-31-9	0.454	J	0.0808	0.980	1
11031	12378-PeCDF	57117-41-6	4.08	JB	0.0643	4.90	1
11031	23478-PeCDF	57117-31-4	2.76	JB	0.0589	4.90	1
11031	123478-HxCDF	70648-26-9	1.94	JB	0.0663	4.90	1
11031	123678-HxCDF	57117-44-9	0.664	JB	0.0606	4.90	1
11031	123789-HxCDF	72918-21-9	0.0608	U	0.0608	4.90	1
11031	234678-HxCDF	60851-34-5	0.748	JB	0.0587	4.90	1
11031	1234678-HpCDF	67562-39-4	5.46	B	0.0282	4.90	1
11031	1234789-HpCDF	55673-89-7	0.378	JB	0.0337	4.90	1
11031	OCDF	39001-02-0	8.65	JB	0.0346	9.80	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	75	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-013-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA6-SS-0.0-0.5

LLI Sample # SW 6356787
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 14:39

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1913 SDG#: DX119-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-013-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA6-SS-0.0-0.5

LLI Sample # SW 6356787
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 14:39

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1913 SDG#: DX119-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11217001	08/10/2011 17:37	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11217001	08/05/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401A	08/05/2011 18:47	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-204-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA6-SS-0.0-0.5

LLI Sample # SW 6356788
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:00

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1914 SDG#: DX119-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-204-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA6-SS-0.0-0.5

LLI Sample # SW 6356788
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:00

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1914 SDG#: DX119-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0977	JBQ	0.0262	0.970	1
11031	12378-PeCDD	40321-76-4	0.557	JB	0.0567	4.85	1
11031	123478-HxCDD	39227-28-6	1.26	JB	0.0421	4.85	1
11031	123678-HxCDD	57653-85-7	2.84	JB	0.0431	4.85	1
11031	123789-HxCDD	19408-74-3	2.31	JB	0.0377	4.85	1
11031	1234678-HpCDD	35822-46-9	84.4	B	0.0796	4.85	1
11031	OCDD	3268-87-9	1,160	B	0.0503	9.70	1
11031	2378-TCDF	51207-31-9	0.365	J	0.0545	0.970	1
11031	12378-PeCDF	57117-41-6	1.03	JB	0.0367	4.85	1
11031	23478-PeCDF	57117-31-4	0.636	JB	0.0389	4.85	1
11031	123478-HxCDF	70648-26-9	2.02	JB	0.0486	4.85	1
11031	123678-HxCDF	57117-44-9	1.18	JB	0.0393	4.85	1
11031	123789-HxCDF	72918-21-9	0.397	JB	0.0541	4.85	1
11031	234678-HxCDF	60851-34-5	1.41	JB	0.0452	4.85	1
11031	1234678-HpCDF	67562-39-4	19.6	B	0.0279	4.85	1
11031	1234789-HpCDF	55673-89-7	1.67	JB	0.0568	4.85	1
11031	OCDF	39001-02-0	51.4	B	0.0516	9.70	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	118	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	57	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-204-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA6-SS-0.0-0.5

LLI Sample # SW 6356788
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:00

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1914 SDG#: DX119-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-204-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA6-SS-0.0-0.5

LLI Sample # SW 6356788
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:00

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1914 SDG#: DX119-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11217001	08/10/2011 18:34	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11217001	08/05/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401A	08/17/2011 21:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-205-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356789
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1915 SDG#: DX119-15BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-205-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356789
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1915 SDG#: DX119-15BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.111	JB	0.0276	0.990	1
11031	12378-PeCDD	40321-76-4	0.547	JB	0.0763	4.95	1
11031	123478-HxCDD	39227-28-6	1.29	JB	0.0346	4.95	1
11031	123678-HxCDD	57653-85-7	1.84	JB	0.0366	4.95	1
11031	123789-HxCDD	19408-74-3	1.73	JB	0.0329	4.95	1
11031	1234678-HpCDD	35822-46-9	64.0	B	0.0758	4.95	1
11031	OCDD	3268-87-9	744	B	0.0405	9.90	1
11031	2378-TCDF	51207-31-9	21.8	C	0.360	0.990	1
11031	12378-PeCDF	57117-41-6	30.8	B	0.107	4.95	1
11031	23478-PeCDF	57117-31-4	9.71	B	0.113	4.95	1
11031	123478-HxCDF	70648-26-9	7.39	B	0.0832	4.95	1
11031	123678-HxCDF	57117-44-9	3.36	JB	0.0736	4.95	1
11031	123789-HxCDF	72918-21-9	0.953	JBQ	0.0808	4.95	1
11031	234678-HxCDF	60851-34-5	1.73	JB	0.0720	4.95	1
11031	1234678-HpCDF	67562-39-4	13.3	B	0.0347	4.95	1
11031	1234789-HpCDF	55673-89-7	1.45	JB	0.0473	4.95	1
11031	OCDF	39001-02-0	50.1	B	0.0301	9.90	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	75	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-205-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356789
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1915 SDG#: DX119-15BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-205-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356789
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1915 SDG#: DX119-15BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11217001	08/10/2011 19:31	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11217001	08/05/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401A	08/17/2011 21:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-205-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356790
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1915 SDG#: DX119-15MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-205-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356790
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1915 SDG#: DX119-15MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	18.6	B	0.0422	0.983	1
11031	12378-PeCDD	40321-76-4	97.5	B	0.108	4.91	1
11031	123478-HxCDD	39227-28-6	96.1	B	0.0607	4.91	1
11031	123678-HxCDD	57653-85-7	95.8	B	0.0620	4.91	1
11031	123789-HxCDD	19408-74-3	94.4	B	0.0625	4.91	1
11031	1234678-HpCDD	35822-46-9	146	B	0.0712	4.91	1
11031	OCDD	3268-87-9	890	B	0.0481	9.83	1
11031	2378-TCDF	51207-31-9	41.8		0.450	0.983	1
11031	12378-PeCDF	57117-41-6	139	B	0.138	4.91	1
11031	23478-PeCDF	57117-31-4	102	B	0.146	4.91	1
11031	123478-HxCDF	70648-26-9	102	B	0.110	4.91	1
11031	123678-HxCDF	57117-44-9	98.9	B	0.0988	4.91	1
11031	123789-HxCDF	72918-21-9	95.6	B	0.111	4.91	1
11031	234678-HxCDF	60851-34-5	94.6	B	0.100	4.91	1
11031	1234678-HpCDF	67562-39-4	105	B	0.0425	4.91	1
11031	1234789-HpCDF	55673-89-7	94.4	B	0.0679	4.91	1
11031	OCDF	39001-02-0	258	B	0.0528	9.83	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-205-SA6-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356790
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1915 SDG#: DX119-15MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-205-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356790
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1915 SDG#: DX119-15MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11217001	08/10/2011 20:27	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11217001	08/05/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401A	08/17/2011 21:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-205-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356791
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1915 SDG#: DX119-15MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-205-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356791
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1915 SDG#: DX119-15MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	19.1	B	0.0358	1.01	1
11031	12378-PeCDD	40321-76-4	101	B	0.0891	5.04	1
11031	123478-HxCDD	39227-28-6	98.4	B	0.0533	5.04	1
11031	123678-HxCDD	57653-85-7	98.5	B	0.0556	5.04	1
11031	123789-HxCDD	19408-74-3	95.7	B	0.0490	5.04	1
11031	1234678-HpCDD	35822-46-9	131	B	0.0704	5.04	1
11031	OCDD	3268-87-9	673	B	0.0601	10.1	1
11031	2378-TCDF	51207-31-9	39.9		0.419	1.01	1
11031	12378-PeCDF	57117-41-6	138	B	0.118	5.04	1
11031	23478-PeCDF	57117-31-4	105	B	0.122	5.04	1
11031	123478-HxCDF	70648-26-9	107	B	0.0998	5.04	1
11031	123678-HxCDF	57117-44-9	102	B	0.0893	5.04	1
11031	123789-HxCDF	72918-21-9	98.4	B	0.106	5.04	1
11031	234678-HxCDF	60851-34-5	97.7	B	0.0935	5.04	1
11031	1234678-HpCDF	67562-39-4	104	B	0.0425	5.04	1
11031	1234789-HpCDF	55673-89-7	92.5	B	0.0668	5.04	1
11031	OCDF	39001-02-0	239	B	0.0417	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	95	25 - 164
13C12-12378-PeCDD	97	25 - 181
13C12-123478-HxCDD	101	32 - 141
13C12-123678-HxCDD	97	28 - 130
13C12-123789-HxCDD	102	28 - 130
13C12-1234678-HpCDD	106	23 - 140
13C12-OCDD	100	17 - 157
13C12-2378-TCDF	97	24 - 169
13C12-12378-PeCDF	113	24 - 185
13C12-23478-PeCDF	104	21 - 178
13C12-123478-HxCDF	90	26 - 152
13C12-123678-HxCDF	101	26 - 123
13C12-234678-HxCDF	96	28 - 136
13C12-123789-HxCDF	89	29 - 147
13C12-1234678-HpCDF	128	28 - 143
13C12-1234789-HpCDF	90	26 - 138
13C12-OCDF	82	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-205-SA6-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356791
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1915 SDG#: DX119-15MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-205-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA6-SS-0.0-0.5

LLI Sample # SW 6356791
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:06

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1915 SDG#: DX119-15MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11217001	08/10/2011 21:24	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11217001	08/05/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401A	08/17/2011 21:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-206-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA6-SS-0.0-0.5

LLI Sample # SW 6356792
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 08:18

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1916 SDG#: DX119-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-206-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA6-SS-0.0-0.5

LLI Sample # SW 6356792
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 08:18

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1916 SDG#: DX119-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.162	JBQ	0.0194	1.03	1
11031	12378-PeCDD	40321-76-4	0.277	JBQ	0.0344	5.15	1
11031	123478-HxCDD	39227-28-6	0.323	JB	0.0416	5.15	1
11031	123678-HxCDD	57653-85-7	1.13	JB	0.0428	5.15	1
11031	123789-HxCDD	19408-74-3	0.766	JB	0.0416	5.15	1
11031	1234678-HpCDD	35822-46-9	33.7	B	0.0573	5.15	1
11031	OCDD	3268-87-9	393	B	0.0343	10.3	1
11031	2378-TCDF	51207-31-9	0.422	JQ	0.0982	1.03	1
11031	12378-PeCDF	57117-41-6	1.05	JB	0.0367	5.15	1
11031	23478-PeCDF	57117-31-4	0.758	JB	0.0369	5.15	1
11031	123478-HxCDF	70648-26-9	0.622	JB	0.0358	5.15	1
11031	123678-HxCDF	57117-44-9	0.322	JB	0.0342	5.15	1
11031	123789-HxCDF	72918-21-9	0.335	JB	0.0337	5.15	1
11031	234678-HxCDF	60851-34-5	0.290	JB	0.0308	5.15	1
11031	1234678-HpCDF	67562-39-4	3.50	JB	0.0278	5.15	1
11031	1234789-HpCDF	55673-89-7	0.346	JB	0.0318	5.15	1
11031	OCDF	39001-02-0	8.96	JB	0.0281	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	94	24 - 169
13C12-12378-PeCDF	100	24 - 185
13C12-23478-PeCDF	90	21 - 178
13C12-123478-HxCDF	85	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	92	28 - 136
13C12-123789-HxCDF	92	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	92	26 - 138
13C12-OCDF	88	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-206-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA6-SS-0.0-0.5

LLI Sample # SW 6356792
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 08:18

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1916 SDG#: DX119-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-206-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA6-SS-0.0-0.5

LLI Sample # SW 6356792
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 08:18

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1916 SDG#: DX119-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11217001	08/10/2011 22:20	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11217001	08/05/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401A	08/17/2011 21:17	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-213-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-213-SA6-SS-0.0-0.5

LLI Sample # SW 6356793
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 08:38

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1917 SDG#: DX119-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-213-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-213-SA6-SS-0.0-0.5

LLI Sample # SW 6356793
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 08:38

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1917 SDG#: DX119-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0591	JBQ	0.0153	0.996	1
11031	12378-PeCDD	40321-76-4	0.117	JBQ	0.0199	4.98	1
11031	123478-HxCDD	39227-28-6	0.0893	JB	0.0333	4.98	1
11031	123678-HxCDD	57653-85-7	0.509	JB	0.0338	4.98	1
11031	123789-HxCDD	19408-74-3	0.404	JB	0.0321	4.98	1
11031	1234678-HpCDD	35822-46-9	15.6	B	0.0535	4.98	1
11031	OCDD	3268-87-9	191	B	0.0279	9.96	1
11031	2378-TCDF	51207-31-9	0.0682	J	0.0277	0.996	1
11031	12378-PeCDF	57117-41-6	0.185	JBQ	0.0156	4.98	1
11031	23478-PeCDF	57117-31-4	0.171	JBQ	0.0155	4.98	1
11031	123478-HxCDF	70648-26-9	0.168	JBQ	0.0234	4.98	1
11031	123678-HxCDF	57117-44-9	0.112	JBQ	0.0203	4.98	1
11031	123789-HxCDF	72918-21-9	0.231	JB	0.0227	4.98	1
11031	234678-HxCDF	60851-34-5	0.113	JB	0.0218	4.98	1
11031	1234678-HpCDF	67562-39-4	1.61	JB	0.0192	4.98	1
11031	1234789-HpCDF	55673-89-7	0.145	JB	0.0265	4.98	1
11031	OCDF	39001-02-0	4.26	JB	0.0260	9.96	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	69	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-213-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-213-SA6-SS-0.0-0.5

LLI Sample # SW 6356793
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 08:38

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1917 SDG#: DX119-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-213-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-213-SA6-SS-0.0-0.5

LLI Sample # SW 6356793
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 08:38

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1917 SDG#: DX119-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11217001	08/10/2011 23:17	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11217001	08/05/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401A	08/17/2011 21:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-217-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-217-SA6-SS-0.0-0.5

LLI Sample # SW 6356794
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:00

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1918 SDG#: DX119-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-217-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-217-SA6-SS-0.0-0.5

LLI Sample # SW 6356794
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:00

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1918 SDG#: DX119-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0174	U	0.0174	1.03	1
11031	12378-PeCDD	40321-76-4	0.0978	JBQ	0.0251	5.17	1
11031	123478-HxCDD	39227-28-6	0.0837	JB	0.0340	5.17	1
11031	123678-HxCDD	57653-85-7	0.312	JB	0.0347	5.17	1
11031	123789-HxCDD	19408-74-3	0.301	JB	0.0346	5.17	1
11031	1234678-HpCDD	35822-46-9	7.94	B	0.0405	5.17	1
11031	OCDD	3268-87-9	84.2	B	0.0282	10.3	1
11031	2378-TCDF	51207-31-9	0.104	J	0.0404	1.03	1
11031	12378-PeCDF	57117-41-6	0.310	JB	0.0208	5.17	1
11031	23478-PeCDF	57117-31-4	0.119	JB	0.0216	5.17	1
11031	123478-HxCDF	70648-26-9	0.150	JBQ	0.0309	5.17	1
11031	123678-HxCDF	57117-44-9	0.0994	JB	0.0267	5.17	1
11031	123789-HxCDF	72918-21-9	0.212	JBQ	0.0304	5.17	1
11031	234678-HxCDF	60851-34-5	0.129	JB	0.0253	5.17	1
11031	1234678-HpCDF	67562-39-4	2.20	JB	0.0159	5.17	1
11031	1234789-HpCDF	55673-89-7	0.128	JB	0.0225	5.17	1
11031	OCDF	39001-02-0	5.29	JB	0.0330	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	71	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-217-SA6-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-217-SA6-SS-0.0-0.5

LLI Sample # SW 6356794
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:00

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1918 SDG#: DX119-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-217-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-217-SA6-SS-0.0-0.5

LLI Sample # SW 6356794
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:00

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1918 SDG#: DX119-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11217001	08/11/2011 00:14	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11217001	08/05/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401A	08/17/2011 21:17	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-317-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-317-SA6-SS-0.0-0.5

LLI Sample # SW 6356795
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:50

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1919 SDG#: DX119-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-317-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-317-SA6-SS-0.0-0.5

LLI Sample # SW 6356795
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:50

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1919 SDG#: DX119-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.161	JBQ	0.0262	0.991	1
11031	12378-PeCDD	40321-76-4	1.24	JB	0.0687	4.96	1
11031	123478-HxCDD	39227-28-6	3.00	JB	0.0527	4.96	1
11031	123678-HxCDD	57653-85-7	8.07	B	0.0545	4.96	1
11031	123789-HxCDD	19408-74-3	5.78	B	0.0557	4.96	1
11031	1234678-HpCDD	35822-46-9	263	B	0.117	4.96	1
11031	OCDD	3268-87-9	2,870	B	0.0815	9.91	1
11031	2378-TCDF	51207-31-9	0.671	J	0.129	0.991	1
11031	12378-PeCDF	57117-41-6	2.18	JB	0.0572	4.96	1
11031	23478-PeCDF	57117-31-4	1.42	JB	0.0629	4.96	1
11031	123478-HxCDF	70648-26-9	4.08	JB	0.0729	4.96	1
11031	123678-HxCDF	57117-44-9	3.39	JB	0.0612	4.96	1
11031	123789-HxCDF	72918-21-9	0.540	JB	0.0887	4.96	1
11031	234678-HxCDF	60851-34-5	4.29	JB	0.0721	4.96	1
11031	1234678-HpCDF	67562-39-4	115	B	0.0421	4.96	1
11031	1234789-HpCDF	55673-89-7	10.2	B	0.0722	4.96	1
11031	OCDF	39001-02-0	479	B	0.0532	9.91	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-317-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-317-SA6-SS-0.0-0.5

LLI Sample # SW 6356795
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:50

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1919 SDG#: DX119-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-317-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-317-SA6-SS-0.0-0.5

LLI Sample # SW 6356795
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:50

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1919 SDG#: DX119-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11217001	08/11/2011 01:10	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11217001	08/05/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401A	08/17/2011 21:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-319-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-319-SA6-SS-0.0-0.5

LLI Sample # SW 6356796
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:22

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1920 SDG#: DX119-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.81	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-319-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-319-SA6-SS-0.0-0.5

LLI Sample # SW 6356796
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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1920 SDG#: DX119-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.279	JB	0.0404	0.992	1
11031	12378-PeCDD	40321-76-4	1.43	JB	0.0806	4.96	1
11031	123478-HxCDD	39227-28-6	2.28	JB	0.0542	4.96	1
11031	123678-HxCDD	57653-85-7	8.77	B	0.0560	4.96	1
11031	123789-HxCDD	19408-74-3	4.69	JB	0.0492	4.96	1
11031	1234678-HpCDD	35822-46-9	223	B	0.131	4.96	1
11031	OCDD	3268-87-9	3,240	B	0.0620	9.92	1
11650	2378-TCDF-Conf	51207-31-9	1.55	C	0.130	0.992	1
11031	12378-PeCDF	57117-41-6	6.05	B	0.0640	4.96	1
11031	23478-PeCDF	57117-31-4	3.20	JB	0.0673	4.96	1
11031	123478-HxCDF	70648-26-9	7.23	B	0.0745	4.96	1
11031	123678-HxCDF	57117-44-9	3.02	JB	0.0673	4.96	1
11031	123789-HxCDF	72918-21-9	1.06	JB	0.0726	4.96	1
11031	234678-HxCDF	60851-34-5	2.73	JB	0.0658	4.96	1
11031	1234678-HpCDF	67562-39-4	39.5	B	0.0399	4.96	1
11031	1234789-HpCDF	55673-89-7	2.85	JB	0.0520	4.96	1
11031	OCDF	39001-02-0	116	B	0.0313	9.92	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-2378-TCDF-Conf	79	24 - 169
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	71	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-319-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-319-SA6-SS-0.0-0.5

LLI Sample # SW 6356796
LLI Group # 1258481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:22

Submitted: 07/27/2011 09:50
Reported: 09/02/2011 10:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1920 SDG#: DX119-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-319-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1920 SDG#: DX119-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11217001	08/11/2011 02:07	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11217001	08/12/2011 20:06	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11217001	08/05/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401A	08/17/2011 21:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258481
Reported: 09/02/11 at 10:01 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11217162401A	Sample number(s): 6356786-6356787								
Moisture Content by 160.3					100		80-120		
Batch number: 11229162401A	Sample number(s): 6356788-6356796								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11217001	Sample number(s): 6356786-6356796								
2378-TCDD	0.0271 J	0.0250	1.00	ng/kg	93		67-158		
12378-PeCDD	0.0430 J	0.0206	5.00	ng/kg	97		70-142		
123478-HxCDD	0.0904 J	0.0274	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0842 J	0.0273	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0945 J	0.0264	5.00	ng/kg	98		64-162		
1234678-HpCDD	1.47 J	0.0221	5.00	ng/kg	96		70-140		
OCDD	8.90 J	0.0279	10.0	ng/kg	101		78-144		
2378-TCDF	0.0241 U	0.0241	1.00	ng/kg	101		75-158		
2378-TCDF-Conf	0.0276 U	0.0276	1.00	ng/kg	101		75-158		
12378-PeCDF	0.0533 J	0.0133	5.00	ng/kg	98		80-134		
23478-PeCDF	0.0573 J	0.0137	5.00	ng/kg	97		68-160		
123478-HxCDF	0.0378 J	0.0102	5.00	ng/kg	99		72-134		
123678-HxCDF	0.0311 J	0.00860	5.00	ng/kg	97		84-130		
123789-HxCDF	0.0531 J	0.0120	5.00	ng/kg	96		78-130		
234678-HxCDF	0.0287 J	0.00970	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.0539 J	0.00700	5.00	ng/kg	97		82-122		
1234789-HpCDF	0.0538 J	0.0152	5.00	ng/kg	98		78-138		
OCDF	0.140 J	0.0369	10.0	ng/kg	98		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11217162401A	Sample number(s): 6356786-6356787					BKG: P356771			
Moisture Content by 160.3						13.3	11.4	15	20
Batch number: 11229162401A	Sample number(s): 6356788-6356796					BKG: P356760			
Moisture Content by 160.3						2.7	2.5	10 (1)	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258481
Reported: 09/02/11 at 10:01 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11217001	Sample number(s): 6356786-6356796 UNSPK: 6356789								
2378-TCDD	94	94	67-158	3	25				
12378-PeCDD	99	99	70-142	3	25				
123478-HxCDD	96	96	70-164	2	25				
123678-HxCDD	96	96	76-134	3	25				
123789-HxCDD	94	93	64-162	1	25				
1234678-HpCDD	84	66*	70-140	11	25				
OCDD	75*	-34*	78-144	28*	25				
2378-TCDF	102	90	75-158	5	25				
2378-TCDF-Conf	102	90	75-158	5	25				
12378-PeCDF	110	106	80-134	1	25				
23478-PeCDF	93	94	68-160	3	25				
123478-HxCDF	96	99	72-134	4	25				
123678-HxCDF	97	98	84-130	3	25				
123789-HxCDF	96	97	78-130	3	25				
234678-HxCDF	95	95	70-156	3	25				
1234678-HpCDF	94	90	82-122	2	25				
1234789-HpCDF	95	90	78-138	2	25				
OCDF	106	94	63-170	8	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11217001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6356786	85	91	93	94	96	112
6356787	81	84	77	79	82	82
6356788	75	75	74	89	78	71
6356789	82	87	77	82	86	81
6356790	79	83	77	83	79	75
6356791	95	104	90	101	96	89
6356792	87	90	85	88	92	92
6356793	75	83	71	78	77	76
6356794	80	85	76	84	85	79
6356795	70	75	71	81	70	60
6356796	87	85	77	82	83	83
Blank	85	99	95	110	96	90
MS	79	83	77	83	79	75
MSD	95	104	90	101	96	89
OPR	73	89	82	96	87	87
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6356786	94	90	87	86	83	85

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258481
Reported: 09/02/11 at 10:01 AM

Surrogate Quality Control

6356787	84	79	75	79	79	81
6356788	118	64	57	79	85	82
6356789	94	79	75	88	89	85
6356790	97	71	64	81	80	79
6356791	128	90	82	97	101	97
6356792	95	92	88	86	90	89
6356793	87	72	69	85	83	81
6356794	101	78	71	79	86	87
6356795	99	64	61	78	75	74
6356796	89	76	71	84	84	82
Blank	128	68	59	98	94	96
MS	97	71	64	81	80	79
MSD	128	90	82	97	101	97
OPR	122	69	59	89	83	81
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6356786	88	84	86	90	95	
6356787	82	79	78	85	84	
6356788	86	84	87	75	88	
6356789	89	90	83	77	97	
6356790	80	82	73	79	92	
6356791	102	106	100	97	113	
6356792	91	93	91	94	100	
6356793	82	82	81	80	90	
6356794	86	88	83	82	92	
6356795	71	76	74	70	87	
6356796	85	81	79	84	95	79
Blank	96	89	83	84	107	85
MS	80	82	73	79	92	79
MSD	102	106	100	97	113	97
OPR	87	85	78	74	93	74
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1253451 Sample# 63576796 46

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
						PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS										
SL-012-SA6-SS-0.0-0.5	7/26/11	1502	SOIL	NONE	1-SS Sleeve			X	X																	
SL-012-SA6-SS-0.0-0.5	7/26/11	1502	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		X	X										
SL-013-SA6-SS-0.0-0.5	7/26/11	1439	SOIL	NONE	1-SS Sleeve			X	X																	
SL-013-SA6-SS-0.0-0.5	7/26/11	1439	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		X	X										
SL-204-SA6-SS-0.0-0.5	7/26/11	1000	SOIL	NONE	1-SS Sleeve			X	X																	
SL-204-SA6-SS-0.0-0.5	7/26/11	1000	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-205-SA6-SS-0.0-0.5MS	7/26/11	1206	SOIL	NONE	2-SS Sleeve			X	X																	
SL-205-SA6-SS-0.0-0.5MS	7/26/11	1206	SOIL	NONE	6-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-206-SA6-SS-0.0-0.5	7/26/11	0818	SOIL	NONE	1-SS Sleeve			X	X																	
SL-206-SA6-SS-0.0-0.5	7/26/11	0818	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-213-SA6-SS-0.0-0.5	7/26/11	0838	SOIL	NONE	1-SS Sleeve			X	X																	
SL-213-SA6-SS-0.0-0.5	7/26/11	0838	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-217-SA6-SS-0.0-0.5	7/26/11	0900	SOIL	NONE	1-SS Sleeve			X	X																	
SL-217-SA6-SS-0.0-0.5	7/26/11	0900	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-317-SA6-SS-0.0-0.5	7/26/11	1150	SOIL	NONE	1-SS Sleeve			X	X																	
SL-317-SA6-SS-0.0-0.5	7/26/11	1150	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-319-SA6-SS-0.0-0.5	7/26/11	1022	SOIL	NONE	1-SS Sleeve			X	X																	
SL-319-SA6-SS-0.0-0.5	7/26/11	1022	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
DUP08-SA6-QC-072611	7/26/11	1214	SOIL	NONE	1-SS Sleeve			X	X																	
DUP08-SA6-QC-072611	7/26/11	1214	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time 07/26/2011 / 1600	Received for Laboratory by: (*Signature*)	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 7/26/11 0950	Airbill No.(s) 8754 3341 0325,0336,0347,0358	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 25, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/27/2011
Group Number: 1258482
SDG: DX120
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP08-SA6-QC-072611 Soil	6356797
SL-077-SA6-SB-4.0-5.0 Soil	6356798
SL-077-SA6-SB-9.0-10.0 Soil	6356799
SL-080-SA6-SB-3.5-4.5 Soil	6356800
EB-SA6-SS-072611 Water	6356801
SL-311-SA6-SS-0.0-0.5 Soil	6356802

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: DUP08-SA6-QC-072611 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA6-QC-072611

LLI Sample # SW 6356797
LLI Group # 1258482
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:14

Submitted: 07/27/2011 09:50
Reported: 08/25/2011 12:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2001 SDG#: DX120-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP08-SA6-QC-072611 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA6-QC-072611

LLI Sample # SW 6356797
LLI Group # 1258482
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:14

Submitted: 07/27/2011 09:50
Reported: 08/25/2011 12:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2001 SDG#: DX120-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0680	JB	0.0193	1.02	1
11031	12378-PeCDD	40321-76-4	0.363	JB	0.0350	5.08	1
11031	123478-HxCDD	39227-28-6	0.737	JB	0.0239	5.08	1
11031	123678-HxCDD	57653-85-7	1.66	JB	0.0249	5.08	1
11031	123789-HxCDD	19408-74-3	1.69	JB	0.0249	5.08	1
11031	1234678-HpCDD	35822-46-9	50.2	B	0.0742	5.08	1
11031	OCDD	3268-87-9	583	B	0.0495	10.2	1
11650	2378-TCDF-Conf	51207-31-9	27.3	BC	0.165	1.02	1
11031	12378-PeCDF	57117-41-6	50.4	B	0.0461	5.08	1
11031	23478-PeCDF	57117-31-4	17.6	B	0.0432	5.08	1
11031	123478-HxCDF	70648-26-9	6.26	B	0.0359	5.08	1
11031	123678-HxCDF	57117-44-9	5.38	B	0.0331	5.08	1
11031	123789-HxCDF	72918-21-9	0.822	JBQ	0.0427	5.08	1
11031	234678-HxCDF	60851-34-5	1.80	JB	0.0371	5.08	1
11031	1234678-HpCDF	67562-39-4	13.5	B	0.0322	5.08	1
11031	1234789-HpCDF	55673-89-7	1.49	JB	0.0474	5.08	1
11031	OCDF	39001-02-0	51.4	B	0.0363	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-2378-TCDF-Conf	82	24 - 169
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	67	17 - 157
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP08-SA6-QC-072611 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA6-QC-072611

LLI Sample # SW 6356797
LLI Group # 1258482
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:14

Submitted: 07/27/2011 09:50
Reported: 08/25/2011 12:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2001 SDG#: DX120-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP08-SA6-QC-072611 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA6-QC-072611

LLI Sample # SW 6356797
LLI Group # 1258482
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 12:14

Submitted: 07/27/2011 09:50
Reported: 08/25/2011 12:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2001 SDG#: DX120-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11222001	08/12/2011 00:46	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11222001	08/13/2011 07:17	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11222001	08/10/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401A	08/17/2011 21:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-077-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA6-SB-4.0-5.0

LLI Sample # SW 6356798
LLI Group # 1258482
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:30

Submitted: 07/27/2011 09:50
Reported: 08/25/2011 12:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2002 SDG#: DX120-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-077-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA6-SB-4.0-5.0

LLI Sample # SW 6356798
LLI Group # 1258482
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:30

Submitted: 07/27/2011 09:50
Reported: 08/25/2011 12:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2002 SDG#: DX120-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0208	JB	0.0141	1.08	1
11031	12378-PeCDD	40321-76-4	0.0581	JB	0.0166	5.38	1
11031	123478-HxCDD	39227-28-6	0.102	JBQ	0.0283	5.38	1
11031	123678-HxCDD	57653-85-7	0.518	JB	0.0294	5.38	1
11031	123789-HxCDD	19408-74-3	0.220	JB	0.0284	5.38	1
11031	1234678-HpCDD	35822-46-9	40.0	B	0.0670	5.38	1
11031	OCDD	3268-87-9	567	B	0.0530	10.8	1
11031	2378-TCDF	51207-31-9	0.0649	JB	0.0221	1.08	1
11031	12378-PeCDF	57117-41-6	0.655	JB	0.0156	5.38	1
11031	23478-PeCDF	57117-31-4	0.282	JB	0.0150	5.38	1
11031	123478-HxCDF	70648-26-9	0.174	JBQ	0.0246	5.38	1
11031	123678-HxCDF	57117-44-9	0.125	JBQ	0.0239	5.38	1
11031	123789-HxCDF	72918-21-9	0.0880	JB	0.0279	5.38	1
11031	234678-HxCDF	60851-34-5	0.204	JBQ	0.0244	5.38	1
11031	1234678-HpCDF	67562-39-4	1.83	JB	0.0336	5.38	1
11031	1234789-HpCDF	55673-89-7	0.326	JB	0.0484	5.38	1
11031	OCDF	39001-02-0	5.93	JB	0.0586	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-077-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA6-SB-4.0-5.0

LLI Sample # SW 6356798
LLI Group # 1258482
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:30

Submitted: 07/27/2011 09:50
Reported: 08/25/2011 12:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2002 SDG#: DX120-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-077-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA6-SB-4.0-5.0

LLI Sample # SW 6356798
LLI Group # 1258482
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:30

Submitted: 07/27/2011 09:50
Reported: 08/25/2011 12:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2002 SDG#: DX120-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11222001	08/12/2011 01:42	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11222001	08/10/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401A	08/05/2011 18:47	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-077-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA6-SB-9.0-10.0

LLI Sample # SW 6356799
LLI Group # 1258482
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:50

Submitted: 07/27/2011 09:50
Reported: 08/25/2011 12:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2003 SDG#: DX120-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-077-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA6-SB-9.0-10.0

LLI Sample # SW 6356799
LLI Group # 1258482
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:50

Submitted: 07/27/2011 09:50
Reported: 08/25/2011 12:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2003 SDG#: DX120-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0576	JBQ	0.0121	1.15	1
11031	12378-PeCDD	40321-76-4	0.231	JBQ	0.0178	5.73	1
11031	123478-HxCDD	39227-28-6	0.238	JB	0.0226	5.73	1
11031	123678-HxCDD	57653-85-7	0.931	JB	0.0235	5.73	1
11031	123789-HxCDD	19408-74-3	0.421	JBQ	0.0238	5.73	1
11031	1234678-HpCDD	35822-46-9	41.2	B	0.0573	5.73	1
11031	OCDD	3268-87-9	477	B	0.0442	11.5	1
11031	2378-TCDF	51207-31-9	0.481	JB	0.0397	1.15	1
11031	12378-PeCDF	57117-41-6	0.926	JB	0.0223	5.73	1
11031	23478-PeCDF	57117-31-4	1.24	JB	0.0213	5.73	1
11031	123478-HxCDF	70648-26-9	2.19	JB	0.0226	5.73	1
11031	123678-HxCDF	57117-44-9	0.944	JB	0.0205	5.73	1
11031	123789-HxCDF	72918-21-9	0.806	JB	0.0254	5.73	1
11031	234678-HxCDF	60851-34-5	1.13	JB	0.0212	5.73	1
11031	1234678-HpCDF	67562-39-4	7.07	B	0.0172	5.73	1
11031	1234789-HpCDF	55673-89-7	1.48	JB	0.0236	5.73	1
11031	OCDF	39001-02-0	17.2	B	0.0204	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	76	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-077-SA6-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA6-SB-9.0-10.0

LLI Sample # SW 6356799
LLI Group # 1258482
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:50

Submitted: 07/27/2011 09:50
Reported: 08/25/2011 12:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2003 SDG#: DX120-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-077-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA6-SB-9.0-10.0

LLI Sample # SW 6356799
LLI Group # 1258482
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 09:50

Submitted: 07/27/2011 09:50
Reported: 08/25/2011 12:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2003 SDG#: DX120-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11222001	08/12/2011 14:51	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11222001	08/10/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401A	08/05/2011 18:47	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-080-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA6-SB-3.5-4.5

LLI Sample # SW 6356800
LLI Group # 1258482
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:50

Submitted: 07/27/2011 09:50
Reported: 08/25/2011 12:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2004 SDG#: DX120-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-080-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA6-SB-3.5-4.5

LLI Sample # SW 6356800
LLI Group # 1258482
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:50

Submitted: 07/27/2011 09:50
Reported: 08/25/2011 12:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2004 SDG#: DX120-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0118 U	0.0118	1.04	1
11031	12378-PeCDD	40321-76-4	0.0156 JBQ	0.0112	5.19	1
11031	123478-HxCDD	39227-28-6	0.0177 JBQ	0.00984	5.19	1
11031	123678-HxCDD	57653-85-7	0.0438 JBQ	0.0103	5.19	1
11031	123789-HxCDD	19408-74-3	0.0446 JBQ	0.0102	5.19	1
11031	1234678-HpCDD	35822-46-9	0.435 JB	0.0136	5.19	1
11031	OCDD	3268-87-9	1.08 JB	0.0138	10.4	1
11031	2378-TCDF	51207-31-9	0.0107 U	0.0107	1.04	1
11031	12378-PeCDF	57117-41-6	0.0287 JB	0.0114	5.19	1
11031	23478-PeCDF	57117-31-4	0.0625 JBQ	0.0110	5.19	1
11031	123478-HxCDF	70648-26-9	0.0497 JB	0.0135	5.19	1
11031	123678-HxCDF	57117-44-9	0.0325 JBQ	0.0114	5.19	1
11031	123789-HxCDF	72918-21-9	0.0502 JBQ	0.0145	5.19	1
11031	234678-HxCDF	60851-34-5	0.0566 JBQ	0.0124	5.19	1
11031	1234678-HpCDF	67562-39-4	0.0648 JBQ	0.00775	5.19	1
11031	1234789-HpCDF	55673-89-7	0.0331 JBQ	0.0133	5.19	1
11031	OCDF	39001-02-0	0.172 JB	0.0185	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	60	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-080-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA6-SB-3.5-4.5

LLI Sample # SW 6356800
LLI Group # 1258482
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:50

Submitted: 07/27/2011 09:50
Reported: 08/25/2011 12:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2004 SDG#: DX120-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-080-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA6-SB-3.5-4.5

LLI Sample # SW 6356800
LLI Group # 1258482
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 10:50

Submitted: 07/27/2011 09:50
Reported: 08/25/2011 12:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2004 SDG#: DX120-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11222001	08/12/2011 15:47	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11222001	08/10/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401A	08/05/2011 18:47	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB-SA6-SS-072611 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-072611

LLI Sample # WW 6356801
LLI Group # 1258482
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:30

Submitted: 07/27/2011 09:50
Reported: 08/25/2011 12:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2005 SDG#: DX120-05EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.783	U	0.783	1.99	1
10915	12378-PeCDD	40321-76-4	0.652	U	0.652	9.94	1
10915	123478-HxCDD	39227-28-6	0.441	U	0.441	9.94	1
10915	123678-HxCDD	57653-85-7	0.484	JB	0.423	9.94	1
10915	123789-HxCDD	19408-74-3	0.576	JBQ	0.428	9.94	1
10915	1234678-HpCDD	35822-46-9	3.71	JBQ	0.646	9.94	1
10915	OCDD	3268-87-9	7.99	JB	0.446	19.9	1
10915	2378-TCDF	51207-31-9	0.586	U	0.586	1.99	1
10915	12378-PeCDF	57117-41-6	1.65	JQ	0.373	9.94	1
10915	23478-PeCDF	57117-31-4	1.95	JBQ	0.334	9.94	1
10915	123478-HxCDF	70648-26-9	0.308	U	0.308	9.94	1
10915	123678-HxCDF	57117-44-9	0.392	JBQ	0.308	9.94	1
10915	123789-HxCDF	72918-21-9	1.09	JBQ	0.319	9.94	1
10915	234678-HxCDF	60851-34-5	0.368	JBQ	0.287	9.94	1
10915	1234678-HpCDF	67562-39-4	1.69	JB	0.317	9.94	1
10915	1234789-HpCDF	55673-89-7	0.449	JBQ	0.335	9.94	1
10915	OCDF	39001-02-0	1.26	JBQ	0.727	19.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	60	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	64	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	61	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	58	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	62	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA6-SS-072611 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SS-072611

LLI Sample # WW 6356801
LLI Group # 1258482
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:30

Submitted: 07/27/2011 09:50
Reported: 08/25/2011 12:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2005 SDG#: DX120-05EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11234001	08/23/2011 19:27	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	2	11234001	08/22/2011 09:30	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-311-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-311-SA6-SS-0.0-0.5

LLI Sample # SW 6356802
LLI Group # 1258482
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:31

Submitted: 07/27/2011 09:50
Reported: 08/25/2011 12:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2006 SDG#: DX120-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-311-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-311-SA6-SS-0.0-0.5

LLI Sample # SW 6356802
LLI Group # 1258482
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:31

Submitted: 07/27/2011 09:50
Reported: 08/25/2011 12:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2006 SDG#: DX120-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.151	JB	0.0228	1.01	1
11031	12378-PeCDD	40321-76-4	1.06	JB	0.0373	5.07	1
11031	123478-HxCDD	39227-28-6	1.63	JB	0.0225	5.07	1
11031	123678-HxCDD	57653-85-7	5.45	B	0.0235	5.07	1
11031	123789-HxCDD	19408-74-3	3.48	JB	0.0223	5.07	1
11031	1234678-HpCDD	35822-46-9	93.1	B	0.0556	5.07	1
11031	OCDD	3268-87-9	618	B	0.0399	10.1	1
11650	2378-TCDF-Conf	51207-31-9	15.9	BC	0.170	1.01	1
11031	12378-PeCDF	57117-41-6	7.67	B	0.0444	5.07	1
11031	23478-PeCDF	57117-31-4	27.8	B	0.0406	5.07	1
11031	123478-HxCDF	70648-26-9	10.2	B	0.0232	5.07	1
11031	123678-HxCDF	57117-44-9	6.28	B	0.0233	5.07	1
11031	123789-HxCDF	72918-21-9	0.0251	U	0.0251	5.07	1
11031	234678-HxCDF	60851-34-5	5.33	B	0.0220	5.07	1
11031	1234678-HpCDF	67562-39-4	41.2	B	0.0214	5.07	1
11031	1234789-HpCDF	55673-89-7	3.49	JB	0.0259	5.07	1
11031	OCDF	39001-02-0	52.3	B	0.0183	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-2378-TCDF-Conf	87	24 - 169
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	83	17 - 157
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	80	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-311-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-311-SA6-SS-0.0-0.5

LLI Sample # SW 6356802
LLI Group # 1258482
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:31

Submitted: 07/27/2011 09:50
Reported: 08/25/2011 12:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2006 SDG#: DX120-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-311-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-311-SA6-SS-0.0-0.5

LLI Sample # SW 6356802
LLI Group # 1258482
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/26/2011 11:31

Submitted: 07/27/2011 09:50
Reported: 08/25/2011 12:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2006 SDG#: DX120-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11222001	08/12/2011 16:44	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11222001	08/13/2011 08:23	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11222001	08/10/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401A	08/17/2011 21:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258482
Reported: 08/25/11 at 12:11 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11217162401A	Sample number(s): 6356798-6356800								
Moisture Content by 160.3					100		80-120		
Batch number: 11229162401A	Sample number(s): 6356797,6356802								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11222001	Sample number(s): 6356797-6356800,6356802								
2378-TCDD	0.0152 J	0.00790	1.00	ng/kg	92		67-158		
12378-PeCDD	0.0249 J	0.00760	5.00	ng/kg	96		70-142		
123478-HxCDD	0.0259 J	0.00710	5.00	ng/kg	100		70-164		
123678-HxCDD	0.0288 J	0.00730	5.00	ng/kg	98		76-134		
123789-HxCDD	0.0352 J	0.00680	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.375 J	0.00860	5.00	ng/kg	99		70-140		
OCDD	1.08 J	0.00820	10.0	ng/kg	100		78-144		
2378-TCDF	0.0165 J	0.00750	1.00	ng/kg	102		75-158		
2378-TCDF-Conf	0.0250 U	0.0250	1.00	ng/kg	102		75-158		
12378-PeCDF	0.0262 J	0.00450	5.00	ng/kg	99		80-134		
23478-PeCDF	0.0487 J	0.00460	5.00	ng/kg	100		68-160		
123478-HxCDF	0.0276 J	0.00520	5.00	ng/kg	105		72-134		
123678-HxCDF	0.0193 J	0.00440	5.00	ng/kg	105		84-130		
123789-HxCDF	0.0495 J	0.00530	5.00	ng/kg	105		78-130		
234678-HxCDF	0.0255 J	0.00500	5.00	ng/kg	107		70-156		
1234678-HpCDF	0.0662 J	0.00400	5.00	ng/kg	102		82-122		
1234789-HpCDF	0.0516 J	0.00740	5.00	ng/kg	104		78-138		
OCDF	0.166 J	0.0110	10.0	ng/kg	106		63-170		
Batch number: 11234001	Sample number(s): 6356801								
2378-TCDD	0.926 U	0.926	2.00	pg/l	106		67-158		
12378-PeCDD	0.858 J	0.735	10.0	pg/l	103		70-142		
123478-HxCDD	0.765 J	0.508	10.0	pg/l	107		70-164		
123678-HxCDD	0.856 J	0.491	10.0	pg/l	102		76-134		
123789-HxCDD	0.876 J	0.490	10.0	pg/l	104		64-162		
1234678-HpCDD	2.80 J	0.756	10.0	pg/l	103		70-140		
OCDD	6.56 J	0.546	20.0	pg/l	106		78-144		
2378-TCDF	0.726 U	0.726	2.00	pg/l	101		75-158		
12378-PeCDF	0.385 U	0.385	10.0	pg/l	102		80-134		
23478-PeCDF	1.02 J	0.340	10.0	pg/l	100		68-160		
123478-HxCDF	0.547 J	0.290	10.0	pg/l	101		72-134		
123678-HxCDF	0.489 J	0.286	10.0	pg/l	102		84-130		
123789-HxCDF	0.588 J	0.284	10.0	pg/l	102		78-130		
234678-HxCDF	0.562 J	0.272	10.0	pg/l	101		70-156		
1234678-HpCDF	0.632 J	0.277	10.0	pg/l	101		82-122		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258482
Reported: 08/25/11 at 12:11 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
1234789-HpCDF	0.512	J	0.318	10.0	pg/l	106		78-138		
OCDF	2.84	J	0.747	20.0	pg/l	107		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11217162401A	Sample number(s): 6356798-6356800					BKG: P356771			
Moisture Content by 160.3						13.3	11.4	15	20
Batch number: 11229162401A	Sample number(s): 6356797,6356802					BKG: P356760			
Moisture Content by 160.3						2.7	2.5	10 (1)	20
Batch number: 11222001	Sample number(s): 6356797-6356800,6356802 UNSPK: P358398								
2378-TCDD	64*	63*	67-158	1	25				
12378-PeCDD	97	95	70-142	0	25				
123478-HxCDD	98	97	70-164	1	25				
123678-HxCDD	100	97	76-134	1	25				
123789-HxCDD	101	98	64-162	1	25				
1234678-HpCDD	133	99	70-140	11	25				
OCDD	213 (2)	-17 (2)	78-144	22	25				
2378-TCDF	93	95	75-158	3	25				
2378-TCDF-Conf	93	95	75-158	3	25				
12378-PeCDF	104	98	80-134	3	25				
23478-PeCDF	99	98	68-160	1	25				
123478-HxCDF	105	105	72-134	2	25				
123678-HxCDF	105	104	84-130	1	25				
123789-HxCDF	105	105	78-130	2	25				
234678-HxCDF	104	105	70-156	2	25				
1234678-HpCDF	117	107	82-122	5	25				
1234789-HpCDF	104	103	78-138	2	25				
OCDF	180*	110	63-170	36*	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11222001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6356797	79	71	75	80	73	72
6356798	84	66	80	81	78	83
6356799	79	70	74	79	78	76
6356800	73	62	64	77	71	73
6356802	84	75	79	80	82	87
Blank	84	75	79	92	84	88
MS	78	68	73	74	74	80

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258482
Reported: 08/25/11 at 12:11 PM

Surrogate Quality Control

MSD	102	85	91	91	92	107
OPR	70	67	68	77	72	67
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6356797	76	62	58	78	76	75
6356798	86	77	70	74	83	79
6356799	85	76	76	77	80	81
6356800	97	66	60	75	81	79
6356802	80	81	80	82	84	81
Blank	118	80	73	89	93	93
MS	74	72	69	75	77	74
MSD	96	96	97	96	96	96
OPR	99	70	66	80	84	81
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6356797	74	69	67		73	82
6356798	81	83	75	72	67	
6356799	81	82	85	69	73	
6356800	81	87	81	56	68	
6356802	84	82	83		75	87
Blank	97	101	97	67	83	77
MS	77	76	74	66	66	66
MSD	99	99	103	84	83	84
OPR	82	88	87	58	72	58
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11234001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6356801	65	63	60	62	64	69
Blank	72	72	70	71	75	86
OPR	75	81	77	79	80	90
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6356801	58	64	62	60	63	66
Blank	75	78	79	69	72	77
OPR	84	88	92	80	82	84
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6356801	64	66	63	67	61	
Blank	76	79	80	76	71	
OPR	83	91	94	77	79	77

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258482
Reported: 08/25/11 at 12:11 PM

Surrogate Quality Control

Limits:	28-130	23-140	17-157	24-169	24-185	22-152

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1255482 Samp6# 6356797-802

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7470/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-012-SA6-SS-0.0-0.5	7/26/11	1502	SOIL	NONE	1-SS Sleeve			X	X																	
SL-012-SA6-SS-0.0-0.5	7/26/11	1502	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		X	X										
SL-013-SA6-SS-0.0-0.5	7/26/11	1439	SOIL	NONE	1-SS Sleeve			X	X																	
SL-013-SA6-SS-0.0-0.5	7/26/11	1439	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		X	X										
SL-204-SA6-SS-0.0-0.5	7/26/11	1000	SOIL	NONE	1-SS Sleeve			X	X																	
SL-204-SA6-SS-0.0-0.5	7/26/11	1000	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-205-SA6-SS-0.0-0.5MS	7/26/11	1206	SOIL	NONE	2-SS Sleeve			X	X																	
SL-205-SA6-SS-0.0-0.5MS	7/26/11	1206	SOIL	NONE	6-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-206-SA6-SS-0.0-0.5	7/26/11	0818	SOIL	NONE	1-SS Sleeve			X	X																	
SL-206-SA6-SS-0.0-0.5	7/26/11	0818	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-213-SA6-SS-0.0-0.5	7/26/11	0838	SOIL	NONE	1-SS Sleeve			X	X																	
SL-213-SA6-SS-0.0-0.5	7/26/11	0838	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-217-SA6-SS-0.0-0.5	7/26/11	0900	SOIL	NONE	1-SS Sleeve			X	X																	
SL-217-SA6-SS-0.0-0.5	7/26/11	0900	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-317-SA6-SS-0.0-0.5	7/26/11	1150	SOIL	NONE	1-SS Sleeve			X	X																	
SL-317-SA6-SS-0.0-0.5	7/26/11	1150	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-319-SA6-SS-0.0-0.5	7/26/11	1022	SOIL	NONE	1-SS Sleeve			X	X																	
SL-319-SA6-SS-0.0-0.5	7/26/11	1022	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
DUP08-SA6-QC-072611	7/26/11	1214	SOIL	NONE	1-SS Sleeve			X	X																	
DUP08-SA6-QC-072611	7/26/11	1214	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	07/26/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
	7/27/11 0950	8754 3341 0325,0336,0347,0358	

acct# 13013 Gp# 1358482 Sample# 6356797-802

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-077-SA6-SB-4.5	7/26/11	0935	SOIL	NONE	2-Encores												X										
SL-077-SA6-SB-4.0-5.0	7/26/11	0930	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-077-SA6-SB-9.5	7/26/11	0945	SOIL	NONE	2-Encores												X										
SL-077-SA6-SB-9.0-10.0	7/26/11	0950	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X					X						X	X	X	
SL-080-SA6-SB-4.0	7/26/11	1045	SOIL	NONE	2-Encores												X										
SL-080-SA6-SB-3.5-4.5	7/26/11	1050	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X					X						X	X	X	
TB-072611	7/26/11	0800	WATER	NONE	2-40mL Vials												X										

Relinquished by: (*Signature*)	**Date/Time** 07/26/2011 / 1600	**Received for Laboratory by: (*Signature*)**
Received by: (*Signature*)	**Date/Time** 7/27/11 0750	**Airbill No.(s)** 8754 3341 0325,0336,0347,0358

Laboratory:
Lancaster Laboratories, Inc.

acct# 13013 Ap# 1259452 Sample# 6356797-502

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected For samples collected from Subarea 6 (SA6) only, also report Tebatin under EPA Method 8270C. Samplers Signatures:						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																					
EB-SA6-SS-072611	07.26.11	1130	WATER	NONE	11-1 liter ambers			X	X	X					X	X	X			X	X		X			
EB-SA6-SS-072611	07.26.11	1130	WATER	NONE	1-500 mL poly		X				X	X	X													
EB-SA6-SS-072611	07.26.11	1130	WATER	HNO3	1-500 mL poly	X																				
EB-SA6-SS-072611	07.26.11	1130	WATER	NaOH	1-500 mL glass																	X				
EB-SA6-SS-072611	07.26.11	1130	WATER	NONE	1-250 mL glass														X							
EB-SA6-SS-072611	07.26.11	1130	WATER	HCl	2-40 mL vials																				X	
EB-SA6-SS-072611	07.26.11	1130	WATER	NONE	4-40 mL vials													X						X		
Relinquished by: (*Signature*)	Date/Time 07/26/2011 / 1600		Received for Laboratory by: (*Signature*)																						Laboratory: Lancaster Laboratories, Inc.	
Received by: (*Signature*)	Date/Time 7/27/11 0950		Airbill No.(s) 8754 3341 0325,0336,0347,0358																							

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

September 02, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/28/2011
Group Number: 1258702
SDG: DE210
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-009-SA6-SS-0.0-0.5 Soil	6358381
SL-009-SA6-SS-0.0-0.5MS Soil	6358382
SL-009-SA6-SS-0.0-0.5MSD Soil	6358383
SL-009-SA6-SS-0.0-0.5DUP Soil	6358384
SL-017-SA6-SS-0.0-0.5 Soil	6358385
SL-028-SA6-SS-0.0-0.5 Soil	6358386
DUP09-SA6-QC-072711 Soil	6358387
SL-069-SA6-SB-4.0-5.0 Soil	6358388
SL-069-SA6-SB-9.0-10.0 Soil	6358389
SL-076-SA6-SB-2.0-3.0 Soil	6358390
SL-089-SA6-SB-4.0-5.0 Soil	6358391
SL-089-SA6-SB-9.0-10.0 Soil	6358392
SL-117-SA6-SB-2.0-3.0 Soil	6358393
SL-179-SA5DN-SB-4.0-5.0 Soil	6358394
SL-179-SA5DN-SB-9.0-10.0 Soil	6358395
TB-072711 Water	6358396
EB-SA6-SB-072711 Water	6358397

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

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Analysis Report

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5

LLI Sample # SW 6358381
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1001 SDG#: DE210-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Sample Description: SL-009-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5

LLI Sample # SW 6358381
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1001 SDG#: DE210-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.6		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.6		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.6		5
10138	Benzo(a)anthracene	56-55-3	6.3	J	3.4	8.6		5
10138	Benzo(a)pyrene	50-32-8	3.4	U	3.4	8.6		5
10138	Benzo(b)fluoranthene	205-99-2	11		3.4	8.6		5
10138	Benzo(g,h,i)perylene	191-24-2	3.6	J	3.4	8.6		5
10138	Benzo(k)fluoranthene	207-08-9	22		3.4	8.6		5
10138	Chrysene	218-01-9	24		1.7	8.6		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.6		5
10138	Fluoranthene	206-44-0	4.6	J	3.4	8.6		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.6		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.6		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.6		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.6		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.6		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.6		5
10138	Phenanthrene	85-01-8	3.4	U	3.4	8.6		5
10138	Pyrene	129-00-0	6.1	J	3.4	8.6		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	1.2	J	0.64	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	630	U	630	630		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1
	Reporting limits were raised for MCPA due to interference from the sample matrix.							

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SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5

LLI Sample # SW 6358381
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1001 SDG#: DE210-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.68	U	0.68	1.7		10
01363	Alpha BHC	319-84-6	0.35	U	0.35	1.7		10
01363	Beta BHC	319-85-7	0.62	U	0.62	1.7		10
01363	Gamma BHC - Lindane	58-89-9	0.35	U	0.35	1.7		10
01363	Chlordane	57-74-9	27	J	8.2	35		10
01363	p,p-DDD	72-54-8	0.68	U	0.68	3.5		10
01363	p,p-DDE	72-55-9	13		0.68	3.5		10
01363	p,p-DDT	50-29-3	66		3.4	17		50
01363	Delta BHC	319-86-8	0.37	U	0.37	1.7		10
01363	Dieldrin	60-57-1	14	U	14	14		10
01363	Endosulfan I	959-98-8	0.45	U	0.45	1.7		10
01363	Endosulfan II	33213-65-9	3.5	U	3.5	3.5		10
01363	Endosulfan Sulfate	1031-07-8	0.68	U	0.68	3.5		10
01363	Endrin	72-20-8	3.6	U	3.6	3.6		10
01363	Endrin Aldehyde	7421-93-4	5.4	U	5.4	5.4		10
01363	Endrin Ketone	53494-70-5	0.68	U	0.68	3.5		10
01363	Heptachlor	76-44-8	0.62	U	0.62	1.7		10
01363	Heptachlor Epoxide	1024-57-3	3.9	U	3.9	3.9		10
01363	Methoxychlor	72-43-5	3.5	U	3.5	17		10
01363	Mirex	2385-85-5	0.68	U	0.68	3.5		10
01363	Toxaphene	8001-35-2	200	U	200	200		10

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	17		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	14		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,100		6.16	20.4		1
07914	Boron	7440-42-8	6.21		0.366	5.09		1
01650	Calcium	7440-70-2	3,490		2.54	20.4		1
01654	Iron	7439-89-6	18,400		2.66	20.4		1
01656	Lithium	7439-93-2	20.9		0.63	2.0		1

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SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5

LLI Sample # SW 6358381
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1001 SDG#: DE210-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	4,010		0.448	10.2		1
06958	Manganese	7439-96-5	298		0.0366	0.509		1
10145	Phosphorus	7723-14-0	464		0.356	10.2		1
01662	Potassium	7440-09-7	3,300		11.5	50.9		1
01667	Sodium	7440-23-5	94.4	J	6.05	102		1
07968	Strontium	7440-24-6	18.9		0.0254	0.509		1
06969	Tin	7440-31-5	3.02	J	0.326	10.2		1
06970	Titanium	7440-32-6	1,030		0.0722	1.02		1
10146	Zirconium	7440-67-7	3.31	J	0.468	5.09		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.123	J	0.0731	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.12		0.0791	0.395		2
06126	Barium	7440-39-3	97.4		0.105	0.395		2
06127	Beryllium	7440-41-7	0.419		0.0158	0.0988		2
06128	Cadmium	7440-43-9	0.613		0.0435	0.0988		2
06131	Chromium	7440-47-3	18.4		0.119	0.395		2
06132	Cobalt	7440-48-4	5.01		0.0198	0.0988		2
06133	Copper	7440-50-8	12.2		0.0791	0.395		2
06135	Lead	7439-92-1	27.3		0.0101	0.198		2
06138	Molybdenum	7439-98-7	0.576		0.0494	0.0988		2
06139	Nickel	7440-02-0	13.7		0.0988	0.395		2
06141	Selenium	7782-49-2	0.113	J	0.0573	0.395		2
06142	Silver	7440-22-4	0.513		0.0140	0.0988		2
06145	Thallium	7440-28-0	0.222		0.0296	0.0988		2
06148	Vanadium	7440-62-2	30.0		0.0217	0.0988		2
06149	Zinc	7440-66-6	115		0.553	2.96		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0573	J	0.0071	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.59	J	0.21	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.24		0.0100	0.0100		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-009-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5

LLI Sample # SW 6358381
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

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E1001 SDG#: DE210-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	2.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11220SLC026	08/17/2011 12:52	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11220SLB026	08/11/2011 17:13	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11220SLB026	08/09/2011 06:45	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11220SLC026	08/09/2011 06:45	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200018A	08/09/2011 19:33	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112200012A	08/25/2011 09:02	Melissa McDermott	10
01363	12a Pesticides by 8081A	SW-846 8081A	1	112200012A	08/26/2011 17:17	Melissa McDermott	50
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112200013A	08/11/2011 21:13	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112200012A	08/08/2011 16:35	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112200013A	08/08/2011 16:35	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200018A	08/08/2011 22:15	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	112145708004	08/04/2011 22:03	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708004	08/04/2011 22:03	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708004	08/04/2011 22:03	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112145708004	08/04/2011 22:03	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112145708004	08/04/2011 22:03	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708004	08/04/2011 22:03	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708004	08/04/2011 22:03	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112145708004	08/04/2011 22:03	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708004	08/04/2011 22:03	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112145708004	08/04/2011 22:03	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112145708004	08/04/2011 22:03	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708004	08/04/2011 22:03	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112145708004	08/04/2011 22:03	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112145708004	08/04/2011 22:03	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112141026001A	08/05/2011 04:30	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026001A	08/05/2011 04:30	David K Beck	2
06126	Barium	SW-846 6020	1	112141026001D	08/05/2011 04:30	David K Beck	2

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SL-009-SA6-SS-0.0-0.5

LLI Sample # SW 6358381
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E1001 SDG#: DE210-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	112141026001A	08/05/2011 04:30	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026001A	08/05/2011 04:30	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026001A	08/05/2011 04:30	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026001A	08/05/2011 04:30	David K Beck	2
06133	Copper	SW-846 6020	1	112141026001A	08/05/2011 04:30	David K Beck	2
06135	Lead	SW-846 6020	1	112141026001A	08/05/2011 04:30	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026001C	08/05/2011 04:30	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026001A	08/05/2011 04:30	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026001B	08/05/2011 04:30	David K Beck	2
06142	Silver	SW-846 6020	1	112141026001A	08/05/2011 04:30	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026001A	08/05/2011 04:30	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026001A	08/05/2011 04:30	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026001A	08/05/2011 04:30	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711002	08/03/2011 08:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708004	08/04/2011 07:59	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026001	08/04/2011 09:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711002	08/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621203A	08/05/2011 01:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11216284201A	08/06/2011 03:20	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11221243202A	08/10/2011 23:11	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621203A	08/04/2011 10:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11216284201A	08/04/2011 15:20	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11215039401A	08/03/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11221243202A	08/09/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402A	08/05/2011 19:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5

LLI Sample # SW 6358382
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1001 SDG#: DE210-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,500		17	170		1
04688	Acenaphthylene	208-96-8	1,600		17	170		1
04688	Aniline	62-53-3	170	U	170	510		1
04688	Anthracene	120-12-7	1,600		17	170		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	1,500		17	170		1
04688	Benzo(a)pyrene	50-32-8	1,400		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,500		17	170		1
04688	Benzoic acid	65-85-0	1,000		170	510		1
04688	Benzyl alcohol	100-51-6	1,400		170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		17	170		1
04688	Butylbenzylphthalate	85-68-7	1,900		17	170		1
04688	Di-n-butylphthalate	84-74-2	1,700		17	170		1
04688	Carbazole	86-74-8	1,500		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,400		34	170		1
04688	4-Chloroaniline	106-47-8	170		69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600		17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500		17	170		1
04688	2-Chloronaphthalene	91-58-7	1,500		17	170		1
04688	2-Chlorophenol	95-57-8	1,500		17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,400		34	170		1
04688	Chrysene	218-01-9	1,500		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		17	170		1
04688	Dibenzofuran	132-64-9	1,500		17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,500		17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,400		17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,400		17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	1,500		17	170		1
04688	Diethylphthalate	84-66-2	1,500		17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,600		34	170		1
04688	3,5-Dimethylphenol	108-68-9	1,600		34	170		1
04688	Dimethylphthalate	131-11-3	1,600		17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	740		170	510		1
04688	2,4-Dinitrophenol	51-28-5	810	J	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	1,200		34	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,500		17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900		17	340		1
04688	Fluoranthene	206-44-0	1,500		17	170		1
04688	Fluorene	86-73-7	1,400		17	170		1
04688	Hexachlorobenzene	118-74-1	1,500		17	170		1
04688	Hexachlorobutadiene	87-68-3	1,400		69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	1,500		170	510		1
04688	Hexachloroethane	67-72-1	1,400		17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		17	170		1
04688	Isophorone	78-59-1	1,500		17	170		1

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Sample Description: SL-009-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5

LLI Sample # SW 6358382
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1001 SDG#: DE210-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,400		17	170		1
04688	2-Methylnaphthalene	91-57-6	1,400		17	170		1
04688	2-Methylphenol	95-48-7	1,600		34	170		1
04688	4-Methylphenol	106-44-5	1,400		34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,500		17	170		1
04688	2-Nitroaniline	88-74-4	1,600		17	170		1
04688	3-Nitroaniline	99-09-2	250		34	170		1
04688	4-Nitroaniline	100-01-6	350		69	170		1
04688	Nitrobenzene	98-95-3	1,700		17	170		1
04688	2-Nitrophenol	88-75-5	1,400		17	170		1
04688	4-Nitrophenol	100-02-7	1,200		170	510		1
04688	N-Nitrosodimethylamine	62-75-9	1,600		34	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500		17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700		17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,900		17	170		1
04688	Pentachlorophenol	87-86-5	1,300		170	510		1
04688	Phenanthrene	85-01-8	1,600		17	170		1
04688	Phenol	108-95-2	1,500		17	170		1
04688	Pyrene	129-00-0	1,600		17	170		1
04688	Tetralin	119-64-2	860		170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	1,500		17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,400		34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,500		34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	32		3.4	8.6		5
10138	Acenaphthylene	208-96-8	33		1.7	8.6		5
10138	Anthracene	120-12-7	36		1.7	8.6		5
10138	Benzo(a)anthracene	56-55-3	47		3.4	8.6		5
10138	Benzo(a)pyrene	50-32-8	36		3.4	8.6		5
10138	Benzo(b)fluoranthene	205-99-2	49		3.4	8.6		5
10138	Benzo(g,h,i)perylene	191-24-2	20		3.4	8.6		5
10138	Benzo(k)fluoranthene	207-08-9	37		3.4	8.6		5
10138	Butylbenzylphthalate	85-68-7	51	J	31	93		5
10138	Di-n-butylphthalate	84-74-2	54	J	31	93		5
10138	Chrysene	218-01-9	57		1.7	8.6		5
10138	Dibenz(a,h)anthracene	53-70-3	19		3.4	8.6		5
10138	Diethylphthalate	84-66-2	34	J	31	93		5
10138	Dimethylphthalate	131-11-3	37	J	31	93		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	110		31	93		5

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Sample Description: SL-009-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5

LLI Sample # SW 6358382
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1001 SDG#: DE210-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Fluoranthene	206-44-0	63		3.4	8.6		5
10138	Fluorene	86-73-7	38		3.4	8.6		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	19		3.4	8.6		5
10138	1-Methylnaphthalene	90-12-0	31		3.4	8.6		5
10138	2-Methylnaphthalene	91-57-6	31		3.4	8.6		5
10138	Naphthalene	91-20-3	34		3.4	8.6		5
10138	N-Nitrosodimethylamine	62-75-9	35		3.4	8.6		5
10138	Di-n-octylphthalate	117-84-0	33	J	31	93		5
10138	Phenanthrene	85-01-8	40		3.4	8.6		5
10138	Pyrene	129-00-0	44		3.4	8.6		5
Reporting limits were raised due to interference from the sample matrix.								
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	5.3		1.2	3.7		1
10401	Dalapon	75-99-0	8.8	J	4.5	9.2		1
10401	2,4-DB	94-82-6	11		0.64	1.7		1
10401	Dicamba	1918-00-9	1.0	J	0.41	1.2		1
10401	Dinoseb	88-85-7	1.3	J	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	7.0		0.82	1.7		1
10401	MCPA	94-74-6	460		78	260		1
10401	MCPP (Mecoprop)	93-65-2	520		77	260		1
10401	2,4,5-T	93-76-5	0.50		0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.22		0.077	0.17		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.68	U	0.68	1.7		10
01363	Alpha BHC	319-84-6	0.35	U	0.35	1.7		10
01363	Beta BHC	319-85-7	0.62	U	0.62	1.7		10
01363	Gamma BHC - Lindane	58-89-9	0.35	U	0.35	1.7		10
01363	Chlordane	57-74-9	29	J	8.2	35		10
01363	p,p-DDD	72-54-8	0.68	U	0.68	3.5		10
01363	p,p-DDE	72-55-9	12		0.68	3.5		10
01363	p,p-DDT	50-29-3	65		3.4	17		50
01363	Delta BHC	319-86-8	0.37	U	0.37	1.7		10
01363	Dieldrin	60-57-1	0.68	U	0.68	3.5		10
01363	Endosulfan I	959-98-8	0.45	U	0.45	1.7		10
01363	Endosulfan II	33213-65-9	3.5		0.68	3.5		10
01363	Endosulfan Sulfate	1031-07-8	0.68	U	0.68	3.5		10
01363	Endrin	72-20-8	3.6		0.68	3.5		10
01363	Endrin Aldehyde	7421-93-4	3.4	J	0.68	3.5		10
01363	Endrin Ketone	53494-70-5	0.68	U	0.68	3.5		10
01363	Heptachlor	76-44-8	0.62	U	0.62	1.7		10
01363	Heptachlor Epoxide	1024-57-3	4.2		0.35	1.7		10
01363	Methoxychlor	72-43-5	3.5	U	3.5	17		10
01363	Mirex	2385-85-5	0.68	U	0.68	3.5		10
01363	Toxaphene	8001-35-2	270	U	270	270		10
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.								

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5

LLI Sample # SW 6358382
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1001 SDG#: DE210-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	13		1.0	3.4		1
10225	PCB-1016	12674-11-2	14		0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	20		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,200		6.04	20.0		1
07914	Boron	7440-42-8	201		0.359	4.99		1
01650	Calcium	7440-70-2	4,270		2.49	20.0		1
01654	Iron	7439-89-6	16,800		2.60	20.0		1
01656	Lithium	7439-93-2	118		0.62	2.0		1
01657	Magnesium	7439-95-4	4,100		0.439	9.98		1
06958	Manganese	7439-96-5	294		0.0359	0.499		1
10145	Phosphorus	7723-14-0	522		0.349	9.98		1
01662	Potassium	7440-09-7	4,140		11.3	49.9		1
01667	Sodium	7440-23-5	1,050		5.94	99.8		1
07968	Strontium	7440-24-6	119		0.0249	0.499		1
06969	Tin	7440-31-5	357		0.319	9.98		1
06970	Titanium	7440-32-6	1,150		0.0708	0.998		1
10146	Zirconium	7440-67-7	96.0		0.459	4.99		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.461		0.0731	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.04		0.0791	0.395		2
06126	Barium	7440-39-3	101		0.105	0.395		2
06127	Beryllium	7440-41-7	1.16		0.0158	0.0988		2
06128	Cadmium	7440-43-9	1.67		0.0435	0.0988		2
06131	Chromium	7440-47-3	27.0		0.119	0.395		2
06132	Cobalt	7440-48-4	53.2		0.0198	0.0988		2
06133	Copper	7440-50-8	22.7		0.0791	0.395		2
06135	Lead	7439-92-1	34.1		0.0101	0.198		2
06138	Molybdenum	7439-98-7	10.6		0.0494	0.0988		2
06139	Nickel	7440-02-0	23.3		0.0988	0.395		2
06141	Selenium	7782-49-2	2.14		0.0573	0.395		2
06142	Silver	7440-22-4	10.9		0.0140	0.0988		2
06145	Thallium	7440-28-0	0.577		0.0296	0.0988		2
06148	Vanadium	7440-62-2	37.8		0.0217	0.0988		2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5

LLI Sample # SW 6358382
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1001 SDG#: DE210-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06149	Zinc	7440-66-6	123	0.553	2.96		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.233	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.7	0.84	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	548	9.2	30.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	35.2	1.0	5.1		5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	2.7	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11220SLC026	08/17/2011 13:17	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11220SLB026	08/11/2011 17:46	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11220SLB026	08/09/2011 06:45	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11220SLC026	08/09/2011 06:45	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200018A	08/09/2011 20:00	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112200012A	08/25/2011 09:17	Melissa McDermott	10
01363	12a Pesticides by 8081A	SW-846 8081A	1	112200012A	08/26/2011 17:32	Melissa McDermott	50
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112200013A	08/11/2011 21:32	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112200012A	08/08/2011 16:35	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112200013A	08/08/2011 16:35	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200018A	08/08/2011 22:15	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	112145708004	08/04/2011 22:14	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708004	08/04/2011 22:14	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708004	08/04/2011 22:14	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-009-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5

LLI Sample # SW 6358382
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1001 SDG#: DE210-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	112145708004	08/04/2011 22:14	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112145708004	08/04/2011 22:14	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708004	08/04/2011 22:14	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708004	08/04/2011 22:14	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112145708004	08/04/2011 22:14	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708004	08/04/2011 22:14	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112145708004	08/04/2011 22:14	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112145708004	08/04/2011 22:14	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708004	08/04/2011 22:14	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112145708004	08/04/2011 22:14	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112145708004	08/04/2011 22:14	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112141026001A	08/05/2011 04:39	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026001A	08/05/2011 04:39	David K Beck	2
06126	Barium	SW-846 6020	1	112141026001D	08/05/2011 04:39	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026001A	08/05/2011 04:39	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026001A	08/05/2011 04:39	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026001A	08/05/2011 04:39	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026001A	08/05/2011 04:39	David K Beck	2
06133	Copper	SW-846 6020	1	112141026001A	08/05/2011 04:39	David K Beck	2
06135	Lead	SW-846 6020	1	112141026001A	08/05/2011 04:39	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026001C	08/05/2011 04:39	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026001A	08/05/2011 04:39	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026001B	08/05/2011 04:39	David K Beck	2
06142	Silver	SW-846 6020	1	112141026001A	08/05/2011 04:39	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026001A	08/05/2011 04:39	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026001A	08/05/2011 04:39	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026001A	08/05/2011 04:39	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711002	08/03/2011 08:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708004	08/04/2011 07:59	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026001	08/04/2011 09:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711002	08/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621203A	08/05/2011 02:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11216284201A	08/06/2011 04:06	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11221243202A	08/10/2011 23:25	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621203A	08/04/2011 10:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11216284201A	08/04/2011 15:20	Alex M Rittle	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11221243202A	08/09/2011 20:05	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402A	08/05/2011 19:10	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5

LLI Sample # SW 6358383
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1001 SDG#: DE210-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		17	170		1
04688	Acenaphthylene	208-96-8	1,600		17	170		1
04688	Aniline	62-53-3	470	J	170	510		1
04688	Anthracene	120-12-7	1,600		17	170		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	1,600		17	170		1
04688	Benzo(a)pyrene	50-32-8	1,500		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,500		17	170		1
04688	Benzoic acid	65-85-0	800		170	510		1
04688	Benzyl alcohol	100-51-6	1,500		170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		17	170		1
04688	Butylbenzylphthalate	85-68-7	1,900		17	170		1
04688	Di-n-butylphthalate	84-74-2	1,700		17	170		1
04688	Carbazole	86-74-8	1,500		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,500		34	170		1
04688	4-Chloroaniline	106-47-8	490		69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600		17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,400		17	170		1
04688	2-Chloronaphthalene	91-58-7	1,700		17	170		1
04688	2-Chlorophenol	95-57-8	1,600		17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,500		34	170		1
04688	Chrysene	218-01-9	1,600		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		17	170		1
04688	Dibenzofuran	132-64-9	1,500		17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,400		17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,400		17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,400		17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	170	J	100	340		1
04688	2,4-Dichlorophenol	120-83-2	1,500		17	170		1
04688	Diethylphthalate	84-66-2	1,600		17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,600		34	170		1
04688	3,5-Dimethylphenol	108-68-9	1,600		34	170		1
04688	Dimethylphthalate	131-11-3	1,600		17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	650		170	510		1
04688	2,4-Dinitrophenol	51-28-5	590	J	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	1,400		34	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,600		17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000		17	340		1
04688	Fluoranthene	206-44-0	1,500		17	170		1
04688	Fluorene	86-73-7	1,500		17	170		1
04688	Hexachlorobenzene	118-74-1	1,500		17	170		1
04688	Hexachlorobutadiene	87-68-3	1,500		69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	630		170	510		1
04688	Hexachloroethane	67-72-1	1,100		17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		17	170		1
04688	Isophorone	78-59-1	1,600		17	170		1

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Sample Description: SL-009-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5

LLI Sample # SW 6358383
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1001 SDG#: DE210-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,500		17	170		1
04688	2-Methylnaphthalene	91-57-6	1,500		17	170		1
04688	2-Methylphenol	95-48-7	1,600		34	170		1
04688	4-Methylphenol	106-44-5	1,500		34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,500		17	170		1
04688	2-Nitroaniline	88-74-4	1,800		17	170		1
04688	3-Nitroaniline	99-09-2	960		34	170		1
04688	4-Nitroaniline	100-01-6	820		69	170		1
04688	Nitrobenzene	98-95-3	1,700		17	170		1
04688	2-Nitrophenol	88-75-5	1,500		17	170		1
04688	4-Nitrophenol	100-02-7	1,300		170	510		1
04688	N-Nitrosodimethylamine	62-75-9	1,700		34	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500		17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800		17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,900		17	170		1
04688	Pentachlorophenol	87-86-5	1,200		170	510		1
04688	Phenanthrene	85-01-8	1,600		17	170		1
04688	Phenol	108-95-2	1,500		17	170		1
04688	Pyrene	129-00-0	1,600		17	170		1
04688	Tetralin	119-64-2	880		170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	1,500		17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,500		34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,700		34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	33		3.4	8.6		5
10138	Acenaphthylene	208-96-8	34		1.7	8.6		5
10138	Anthracene	120-12-7	37		1.7	8.6		5
10138	Benzo(a)anthracene	56-55-3	45		3.4	8.6		5
10138	Benzo(a)pyrene	50-32-8	34		3.4	8.6		5
10138	Benzo(b)fluoranthene	205-99-2	48		3.4	8.6		5
10138	Benzo(g,h,i)perylene	191-24-2	19		3.4	8.6		5
10138	Benzo(k)fluoranthene	207-08-9	35		3.4	8.6		5
10138	Butylbenzylphthalate	85-68-7	53	J	31	93		5
10138	Di-n-butylphthalate	84-74-2	68	J	31	93		5
10138	Chrysene	218-01-9	54		1.7	8.6		5
10138	Dibenz(a,h)anthracene	53-70-3	18		3.4	8.6		5
10138	Diethylphthalate	84-66-2	34	J	31	93		5
10138	Dimethylphthalate	131-11-3	48	J	31	93		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	200		31	93		5

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Sample Description: SL-009-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5

LLI Sample # SW 6358383
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1001 SDG#: DE210-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Fluoranthene	206-44-0	59		3.4	8.6		5
10138	Fluorene	86-73-7	39		3.4	8.6		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	18		3.4	8.6		5
10138	1-Methylnaphthalene	90-12-0	32		3.4	8.6		5
10138	2-Methylnaphthalene	91-57-6	32		3.4	8.6		5
10138	Naphthalene	91-20-3	36		3.4	8.6		5
10138	N-Nitrosodimethylamine	62-75-9	34		3.4	8.6		5
10138	Di-n-octylphthalate	117-84-0	32	J	31	93		5
10138	Phenanthrene	85-01-8	39		3.4	8.6		5
10138	Pyrene	129-00-0	42		3.4	8.6		5
Reporting limits were raised due to interference from the sample matrix.								
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	5.0		1.2	3.7		1
10401	Dalapon	75-99-0	9.2	J	4.5	9.2		1
10401	2,4-DB	94-82-6	1.3	J	0.64	1.7		1
10401	Dicamba	1918-00-9	0.92	J	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	6.0		0.82	1.7		1
10401	MCPA	94-74-6	350		78	260		1
10401	MCPP (Mecoprop)	93-65-2	680		77	260		1
10401	2,4,5-T	93-76-5	0.46		0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.22		0.077	0.17		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.68	U	0.68	1.7		10
01363	Alpha BHC	319-84-6	0.35	U	0.35	1.7		10
01363	Beta BHC	319-85-7	0.62	U	0.62	1.7		10
01363	Gamma BHC - Lindane	58-89-9	0.42	J	0.35	1.7		10
01363	Chlordane	57-74-9	59	U	59	59		10
01363	p,p-DDD	72-54-8	0.68	U	0.68	3.5		10
01363	p,p-DDE	72-55-9	260		6.8	35		100
01363	p,p-DDT	50-29-3	520		6.8	35		100
01363	Delta BHC	319-86-8	0.37	U	0.37	1.7		10
01363	Dieldrin	60-57-1	150		6.8	35		100
01363	Endosulfan I	959-98-8	0.45	U	0.45	1.7		10
01363	Endosulfan II	33213-65-9	23		0.68	3.5		10
01363	Endosulfan Sulfate	1031-07-8	0.68	U	0.68	3.5		10
01363	Endrin	72-20-8	0.68	U	0.68	3.5		10
01363	Endrin Aldehyde	7421-93-4	18		0.68	3.5		10
01363	Endrin Ketone	53494-70-5	0.68	U	0.68	3.5		10
01363	Heptachlor	76-44-8	1.1	J	0.62	1.7		10
01363	Heptachlor Epoxide	1024-57-3	52		3.5	17		100
01363	Methoxychlor	72-43-5	3.5	U	3.5	17		10
01363	Mirex	2385-85-5	0.68	U	0.68	3.5		10
01363	Toxaphene	8001-35-2	1,600	U	1,600	1,600		10
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.								

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5

LLI Sample # SW 6358383
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1001 SDG#: DE210-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Reporting limits were raised due to interference from the sample matrix.							
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	49	E	1.0	3.4		1
10225	PCB-1016	12674-11-2	15		0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	34	E	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,800		6.04	20.0		1
07914	Boron	7440-42-8	198		0.359	4.99		1
01650	Calcium	7440-70-2	3,820		2.49	20.0		1
01654	Iron	7439-89-6	16,800		2.60	20.0		1
01656	Lithium	7439-93-2	117		0.62	2.0		1
01657	Magnesium	7439-95-4	3,870		0.439	9.98		1
06958	Manganese	7439-96-5	281		0.0359	0.499		1
10145	Phosphorus	7723-14-0	494		0.349	9.98		1
01662	Potassium	7440-09-7	3,990		11.3	49.9		1
01667	Sodium	7440-23-5	1,050		5.94	99.8		1
07968	Strontium	7440-24-6	115		0.0249	0.499		1
06969	Tin	7440-31-5	375		0.319	9.98		1
06970	Titanium	7440-32-6	1,090		0.0708	0.998		1
10146	Zirconium	7440-67-7	97.6		0.459	4.99		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.459		0.0724	0.196		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.07		0.0783	0.392		2
06126	Barium	7440-39-3	126		0.104	0.392		2
06127	Beryllium	7440-41-7	1.13		0.0157	0.0979		2
06128	Cadmium	7440-43-9	1.63		0.0431	0.0979		2
06131	Chromium	7440-47-3	26.8		0.117	0.392		2
06132	Cobalt	7440-48-4	53.3		0.0196	0.0979		2
06133	Copper	7440-50-8	23.7		0.0783	0.392		2
06135	Lead	7439-92-1	28.2		0.010	0.196		2
06138	Molybdenum	7439-98-7	10.4		0.0489	0.0979		2
06139	Nickel	7440-02-0	26.1		0.0979	0.392		2
06141	Selenium	7782-49-2	2.04		0.0568	0.392		2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5

LLI Sample # SW 6358383
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1001 SDG#: DE210-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06142	Silver	7440-22-4	10.4	0.0139	0.0979		2
06145	Thallium	7440-28-0	0.601	0.0294	0.0979		2
06148	Vanadium	7440-62-2	40.4	0.0215	0.0979		2
06149	Zinc	7440-66-6	117	0.548	2.94		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.249	0.0071	0.100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	2.7	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11220SLC026	08/17/2011 13:42	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11220SLB026	08/11/2011 18:19	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11220SLB026	08/09/2011 06:45	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11220SLC026	08/09/2011 06:45	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200018A	08/09/2011 20:28	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112200012A	08/25/2011 09:32	Melissa McDermott	10
01363	12a Pesticides by 8081A	SW-846 8081A	1	112200012A	08/26/2011 17:47	Melissa McDermott	100
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112200013A	08/11/2011 21:50	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112200012A	08/08/2011 16:35	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112200013A	08/08/2011 16:35	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200018A	08/08/2011 22:15	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	112145708004	08/04/2011 22:18	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708004	08/04/2011 22:18	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708004	08/04/2011 22:18	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112145708004	08/04/2011 22:18	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112145708004	08/04/2011 22:18	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708004	08/04/2011 22:18	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708004	08/04/2011 22:18	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112145708004	08/04/2011 22:18	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708004	08/04/2011 22:18	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112145708004	08/04/2011 22:18	John W Yanzuk II	1

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Analysis Report

Sample Description: SL-009-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5

LLI Sample # SW 6358383
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1001 SDG#: DE210-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112145708004	08/04/2011 22:18	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708004	08/04/2011 22:18	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112145708004	08/04/2011 22:18	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112145708004	08/04/2011 22:18	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112141026001A	08/05/2011 04:42	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026001A	08/05/2011 04:42	David K Beck	2
06126	Barium	SW-846 6020	1	112141026001D	08/05/2011 04:42	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026001A	08/05/2011 04:42	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026001A	08/05/2011 04:42	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026001A	08/05/2011 04:42	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026001A	08/05/2011 04:42	David K Beck	2
06133	Copper	SW-846 6020	1	112141026001A	08/05/2011 04:42	David K Beck	2
06135	Lead	SW-846 6020	1	112141026001A	08/05/2011 04:42	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026001C	08/05/2011 04:42	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026001A	08/05/2011 04:42	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026001B	08/05/2011 04:42	David K Beck	2
06142	Silver	SW-846 6020	1	112141026001A	08/05/2011 04:42	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026001A	08/05/2011 04:42	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026001A	08/05/2011 04:42	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026001A	08/05/2011 04:42	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711002	08/03/2011 08:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708004	08/04/2011 07:59	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026001	08/04/2011 09:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711002	08/02/2011 23:55	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402A	08/05/2011 19:10	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA6-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5

LLI Sample # SW 6358384
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1001 SDG#: DE210-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,700		6.10	20.2		1
07914	Boron	7440-42-8	6.19		0.363	5.04		1
01650	Calcium	7440-70-2	3,660		2.52	20.2		1
01654	Iron	7439-89-6	17,300		2.63	20.2		1
01656	Lithium	7439-93-2	19.8		0.62	2.0		1
01657	Magnesium	7439-95-4	3,940		0.443	10.1		1
06958	Manganese	7439-96-5	257		0.0363	0.504		1
10145	Phosphorus	7723-14-0	463		0.353	10.1		1
01662	Potassium	7440-09-7	3,180		11.4	50.4		1
01667	Sodium	7440-23-5	86.5	J	6.00	101		1
07968	Strontium	7440-24-6	20.8		0.0252	0.504		1
06969	Tin	7440-31-5	3.13	J	0.322	10.1		1
06970	Titanium	7440-32-6	958		0.0715	1.01		1
10146	Zirconium	7440-67-7	3.16	J	0.463	5.04		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.114	J	0.0761	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.04		0.0822	0.411		2
06126	Barium	7440-39-3	83.3		0.109	0.411		2
06127	Beryllium	7440-41-7	0.388		0.0164	0.103		2
06128	Cadmium	7440-43-9	0.549		0.0452	0.103		2
06131	Chromium	7440-47-3	16.8		0.123	0.411		2
06132	Cobalt	7440-48-4	4.42		0.0206	0.103		2
06133	Copper	7440-50-8	15.9		0.0822	0.411		2
06135	Lead	7439-92-1	2,990		0.524	10.3		100
06138	Molybdenum	7439-98-7	0.696		0.0514	0.103		2
06139	Nickel	7440-02-0	12.1		0.103	0.411		2
06141	Selenium	7782-49-2	0.0966	J	0.0596	0.411		2
06142	Silver	7440-22-4	0.652		0.0146	0.103		2
06145	Thallium	7440-28-0	0.188		0.0308	0.103		2
06148	Vanadium	7440-62-2	26.5		0.0226	0.103		2
06149	Zinc	7440-66-6	114		0.576	3.08		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0636	J	0.0069	0.0981		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.84	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.53	J	0.21	1.0		1

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Analysis Report

Sample Description: SL-009-SA6-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5

LLI Sample # SW 6358384
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1001 SDG#: DE210-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.39	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	2.8	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	2.7	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112145708004	08/04/2011	22:10	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708004	08/04/2011	22:10	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708004	08/04/2011	22:10	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112145708004	08/04/2011	22:10	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112145708004	08/04/2011	22:10	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708004	08/04/2011	22:10	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708004	08/04/2011	22:10	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112145708004	08/04/2011	22:10	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708004	08/04/2011	22:10	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112145708004	08/04/2011	22:10	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112145708004	08/04/2011	22:10	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708004	08/04/2011	22:10	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112145708004	08/04/2011	22:10	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112145708004	08/04/2011	22:10	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112141026001A	08/05/2011	04:36	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026001A	08/05/2011	04:36	David K Beck	2
06126	Barium	SW-846 6020	1	112141026001D	08/05/2011	04:36	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026001A	08/05/2011	04:36	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026001A	08/05/2011	04:36	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026001A	08/05/2011	04:36	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026001A	08/05/2011	04:36	David K Beck	2
06133	Copper	SW-846 6020	1	112141026001A	08/05/2011	04:36	David K Beck	2
06135	Lead	SW-846 6020	1	112141026001A	08/09/2011	19:08	Choon Y Tian	100
06138	Molybdenum	SW-846 6020	1	112141026001C	08/05/2011	04:36	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026001A	08/05/2011	04:36	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026001B	08/05/2011	04:36	David K Beck	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA6-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5

LLI Sample # SW 6358384
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1001 SDG#: DE210-01DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112141026001A	08/05/2011 04:36	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026001A	08/05/2011 04:36	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026001A	08/05/2011 04:36	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026001A	08/05/2011 04:36	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711002	08/03/2011 08:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708004	08/04/2011 07:59	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026001	08/04/2011 09:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711002	08/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621203A	08/05/2011 02:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11216284201A	08/06/2011 03:43	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11221243202A	08/11/2011 00:09	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621203A	08/04/2011 10:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11216284201A	08/04/2011 15:20	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11215039401A	08/03/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11221243202A	08/09/2011 20:05	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11217162402A	08/05/2011 19:10	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402A	08/05/2011 19:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-017-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA6-SS-0.0-0.5

LLI Sample # SW 6358385
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 09:14

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1002 SDG#: DE210-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(g,h,i)perylene	191-24-2	38	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	19	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1

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Sample Description: SL-017-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA6-SS-0.0-0.5

LLI Sample # SW 6358385
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 09:14

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1002 SDG#: DE210-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.6		5
10138	Acenaphthylene	208-96-8	3.2	J	1.7	8.6		5
10138	Anthracene	120-12-7	7.1	J	1.7	8.6		5
10138	Benzo(a)anthracene	56-55-3	30		3.4	8.6		5
10138	Benzo(a)pyrene	50-32-8	34		3.4	8.6		5
10138	Benzo(b)fluoranthene	205-99-2	61		3.4	8.6		5
10138	Benzo(k)fluoranthene	207-08-9	21		3.4	8.6		5
10138	Chrysene	218-01-9	36		1.7	8.6		5
10138	Dibenz(a,h)anthracene	53-70-3	6.2	J	3.4	8.6		5
10138	Fluoranthene	206-44-0	28		3.4	8.6		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.6		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.6		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.6		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.6		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.6		5
10138	Phenanthrene	85-01-8	4.5	J	3.4	8.6		5
10138	Pyrene	129-00-0	25		3.4	8.6		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.3		1
10401	2,4-DB	94-82-6	1.3	U	1.3	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	78	U	78	260		1
10401	MCPP (Mecoprop)	93-65-2	230	U	230	260		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1
	Reporting limits were raised for MCPP and 2,4-DB due to interference from the sample matrix.							

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Sample Description: SL-017-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA6-SS-0.0-0.5

LLI Sample # SW 6358385
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 09:14

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1002 SDG#: DE210-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	1.4	U	1.4	3.4		20
01363	Alpha BHC	319-84-6	0.70	U	0.70	3.4		20
01363	Beta BHC	319-85-7	1.2	U	1.2	3.4		20
01363	Gamma BHC - Lindane	58-89-9	0.70	U	0.70	3.4		20
01363	Chlordane	57-74-9	16	U	16	70		20
01363	p,p-DDD	72-54-8	1.4	U	1.4	7.0		20
01363	p,p-DDE	72-55-9	1.4	U	1.4	7.0		20
01363	p,p-DDT	50-29-3	13	U	13	13		20
01363	Delta BHC	319-86-8	0.74	U	0.74	3.4		20
01363	Dieldrin	60-57-1	1.4	U	1.4	7.0		20
01363	Endosulfan I	959-98-8	0.91	U	0.91	3.4		20
01363	Endosulfan II	33213-65-9	1.4	U	1.4	7.0		20
01363	Endosulfan Sulfate	1031-07-8	1.4	U	1.4	7.0		20
01363	Endrin	72-20-8	1.4	U	1.4	7.0		20
01363	Endrin Aldehyde	7421-93-4	1.4	U	1.4	7.0		20
01363	Endrin Ketone	53494-70-5	1.4	U	1.4	7.0		20
01363	Heptachlor	76-44-8	1.2	U	1.2	3.4		20
01363	Heptachlor Epoxide	1024-57-3	0.70	U	0.70	3.4		20
01363	Methoxychlor	72-43-5	7.0	U	7.0	34		20
01363	Mirex	2385-85-5	7.3	U	7.3	7.3		20
01363	Toxaphene	8001-35-2	320	U	320	320		20

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	10	U	10	34		10
10225	Aroclor 5442	12642-23-8	10	U	10	34		10
10225	Aroclor 5460	11126-42-4	33	J	10	34		10
10225	PCB-1016	12674-11-2	3.4	U	3.4	18		10
10225	PCB-1221	11104-28-2	3.4	U	3.4	18		10
10225	PCB-1232	11141-16-5	3.4	U	3.4	18		10
10225	PCB-1242	53469-21-9	3.4	U	3.4	18		10
10225	PCB-1248	12672-29-6	3.4	U	3.4	18		10
10225	PCB-1254	11097-69-1	3.4	U	3.4	18		10
10225	PCB-1260	11096-82-5	130		4.0	18		10
10225	PCB-1262	37324-23-5	3.4	U	3.4	18		10
10225	PCB-1268	11100-14-4	3.4	U	3.4	18		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1

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Sample Description: SL-017-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA6-SS-0.0-0.5

LLI Sample # SW 6358385
LLI Group # 1258702
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E1002 SDG#: DE210-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	82	U	82	250		200
10199	EFH (C15-C20)	n.a.	82	U	82	250		200
10199	EFH (C21-C30)	n.a.	700		82	250		200
10199	EFH (C30 - C40)	n.a.	3,700		82	250		200
10199	EFH (C8-C11)	n.a.	82	U	82	250		200
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,300		6.06	20.0		1
07914	Boron	7440-42-8	3.83	J	0.360	5.00		1
01650	Calcium	7440-70-2	2,820		2.50	20.0		1
01654	Iron	7439-89-6	17,200		2.61	20.0		1
01656	Lithium	7439-93-2	21.0		0.62	2.0		1
01657	Magnesium	7439-95-4	3,840		0.440	10.0		1
06958	Manganese	7439-96-5	242		0.0360	0.500		1
10145	Phosphorus	7723-14-0	419		0.350	10.0		1
01662	Potassium	7440-09-7	2,520		11.3	50.0		1
01667	Sodium	7440-23-5	124		5.96	100		1
07968	Strontium	7440-24-6	18.6		0.0250	0.500		1
06969	Tin	7440-31-5	2.97	J	0.320	10.0		1
06970	Titanium	7440-32-6	1,020		0.0711	1.00		1
10146	Zirconium	7440-67-7	2.77	J	0.460	5.00		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0741	U	0.0741	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.46		0.0801	0.400		2
06126	Barium	7440-39-3	75.6		0.106	0.400		2
06127	Beryllium	7440-41-7	0.387		0.0160	0.100		2
06128	Cadmium	7440-43-9	0.329		0.0440	0.100		2
06131	Chromium	7440-47-3	30.2		0.120	0.400		2
06132	Cobalt	7440-48-4	4.69		0.0200	0.100		2
06133	Copper	7440-50-8	16.2		0.0801	0.400		2
06135	Lead	7439-92-1	13.3		0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.651		0.0500	0.100		2

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Sample Description: SL-017-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA6-SS-0.0-0.5

LLI Sample # SW 6358385
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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 09:14

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1002 SDG#: DE210-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	9.96	0.100	0.400		2
06141	Selenium	7782-49-2	0.148 J	0.0581	0.400		2
06142	Silver	7440-22-4	0.0768 J	0.0142	0.100		2
06145	Thallium	7440-28-0	0.175	0.0300	0.100		2
06148	Vanadium	7440-62-2	28.0	0.0220	0.100		2
06149	Zinc	7440-66-6	166	1.40	7.51		5
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0930 J	0.0069	0.0978		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3	0.83	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3 U	9.3	30.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.9	0.21	1.0		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.09	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.0	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11220SLC026	08/17/2011 14:07	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11220SLB026	08/11/2011 18:51	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11220SLB026	08/09/2011 06:45	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11220SLC026	08/09/2011 06:45	Joseph S Feister	1

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Sample Description: SL-017-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA6-SS-0.0-0.5

LLI Sample # SW 6358385
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 09:14

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1002 SDG#: DE210-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200018A	08/10/2011 02:55	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112200012A	08/25/2011 09:47	Melissa McDermott	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112200013A	08/11/2011 22:09	Sarah M Snyder	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112200012A	08/08/2011 16:35	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112200013A	08/08/2011 16:35	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200018A	08/08/2011 22:15	Karen L Beyer	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112110021A	08/01/2011 19:19	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112130001A	08/01/2011 11:27	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112200040A	08/12/2011 00:13	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112170029A	08/09/2011 23:50	Heather E Williams	200
11238	EFH Extraction - Soils	SW-846 3550B	1	112170029A	08/06/2011 12:35	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112200040A	08/09/2011 08:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112110021A	08/01/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112130001A	08/01/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112145708004	08/04/2011 22:25	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708004	08/04/2011 22:25	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708004	08/04/2011 22:25	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112145708004	08/04/2011 22:25	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112145708004	08/04/2011 22:25	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708004	08/04/2011 22:25	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708004	08/04/2011 22:25	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112145708004	08/04/2011 22:25	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708004	08/04/2011 22:25	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112145708004	08/04/2011 22:25	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112145708004	08/04/2011 22:25	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708004	08/04/2011 22:25	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112145708004	08/04/2011 22:25	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112145708004	08/04/2011 22:25	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112141026001A	08/05/2011 04:48	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026001A	08/05/2011 04:48	David K Beck	2
06126	Barium	SW-846 6020	1	112141026001D	08/05/2011 04:48	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026001A	08/05/2011 04:48	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026001A	08/05/2011 04:48	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026001A	08/05/2011 04:48	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026001A	08/05/2011 04:48	David K Beck	2
06133	Copper	SW-846 6020	1	112141026001A	08/05/2011 04:48	David K Beck	2
06135	Lead	SW-846 6020	1	112141026001A	08/05/2011 04:48	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026001C	08/05/2011 04:48	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026001A	08/05/2011 04:48	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026001B	08/05/2011 04:48	David K Beck	2
06142	Silver	SW-846 6020	1	112141026001A	08/05/2011 04:48	David K Beck	2

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Sample Description: SL-017-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA6-SS-0.0-0.5

LLI Sample # SW 6358385
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 09:14

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1002 SDG#: DE210-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	112141026001A	08/05/2011 04:48	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026001A	08/05/2011 04:48	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026001A	08/09/2011 19:10	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112145711002	08/03/2011 08:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708004	08/04/2011 07:59	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026001	08/04/2011 09:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711002	08/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621203A	08/05/2011 02:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11216284201A	08/06/2011 04:29	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11221243202A	08/11/2011 00:16	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621203A	08/04/2011 10:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11216284201A	08/04/2011 15:20	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11215039401A	08/03/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11221243202A	08/09/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402A	08/05/2011 19:10	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-028-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA6-SS-0.0-0.5

LLI Sample # SW 6358386
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 07:30

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1003 SDG#: DE210-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: SL-028-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA6-SS-0.0-0.5

LLI Sample # SW 6358386
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 07:30

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1003 SDG#: DE210-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.62	J	0.34	1.7		1
10138	Anthracene	120-12-7	7.5		0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	6.4		0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	4.9		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	5.1		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	5.1		0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	5.0		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	7.5	J	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	9.7	J	6.1	18		1
10138	Chrysene	218-01-9	6.5		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	5.8		0.68	1.7		1
10138	Diethylphthalate	84-66-2	7.7	J	6.1	18		1
10138	Dimethylphthalate	131-11-3	8.4	J	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.1	J	6.1	18		1
10138	Fluoranthene	206-44-0	7.6		0.68	1.7		1
10138	Fluorene	86-73-7	3.4		0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	5.8		0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.76	J	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	7.2		0.68	1.7		1
10138	Pyrene	129-00-0	6.2		0.68	1.7		1
	Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	1.5	U	1.5	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	150	J	76	250		1
10401	2,4,5-T	93-76-5	0.25		0.084	0.17		1

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Sample Description: SL-028-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA6-SS-0.0-0.5

LLI Sample # SW 6358386
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 07:30

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1003 SDG#: DE210-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	Reporting limits were raised for 2,4-DB due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	1.7	U	1.7	4.2		25
01363	Alpha BHC	319-84-6	0.87	U	0.87	4.2		25
01363	Beta BHC	319-85-7	1.5	U	1.5	4.2		25
01363	Gamma BHC - Lindane	58-89-9	0.87	U	0.87	4.2		25
01363	Chlordane	57-74-9	20	U	20	87		25
01363	p,p-DDD	72-54-8	1.7	U	1.7	8.7		25
01363	p,p-DDE	72-55-9	19		1.7	8.7		25
01363	p,p-DDT	50-29-3	84		6.7	35		100
01363	Delta BHC	319-86-8	0.92	U	0.92	4.2		25
01363	Dieldrin	60-57-1	7.7	U	7.7	35		100
01363	Endosulfan I	959-98-8	1.1	U	1.1	4.2		25
01363	Endosulfan II	33213-65-9	9.9	U	9.9	9.9		25
01363	Endosulfan Sulfate	1031-07-8	1.7	U	1.7	8.7		25
01363	Endrin	72-20-8	6.2	U	6.2	8.7		25
01363	Endrin Aldehyde	7421-93-4	9.8	U	9.8	9.8		25
01363	Endrin Ketone	53494-70-5	1.7	U	1.7	8.7		25
01363	Heptachlor	76-44-8	1.5	U	1.5	4.2		25
01363	Heptachlor Epoxide	1024-57-3	6.6	U	6.6	6.6		25
01363	Methoxychlor	72-43-5	8.7	U	8.7	42		25
01363	Mirex	2385-85-5	4.4	U	4.4	8.7		25
01363	Toxaphene	8001-35-2	170	U	170	170		25
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	2.0	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	5.0		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,400		5.95	19.7		1
07914	Boron	7440-42-8	4.35	J	0.354	4.92		1
01650	Calcium	7440-70-2	2,440		2.46	19.7		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-028-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA6-SS-0.0-0.5

LLI Sample # SW 6358386
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 07:30

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1003 SDG#: DE210-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	19,300		2.57	19.7		1
01656	Lithium	7439-93-2	23.7		0.61	2.0		1
01657	Magnesium	7439-95-4	4,080		0.433	9.83		1
06958	Manganese	7439-96-5	240		0.0354	0.492		1
10145	Phosphorus	7723-14-0	370		0.344	9.83		1
01662	Potassium	7440-09-7	2,670		11.1	49.2		1
01667	Sodium	7440-23-5	110		5.85	98.3		1
07968	Strontium	7440-24-6	12.9		0.0246	0.492		1
06969	Tin	7440-31-5	3.31	J	0.315	9.83		1
06970	Titanium	7440-32-6	1,070		0.0698	0.983		1
10146	Zirconium	7440-67-7	2.85	J	0.452	4.92		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.124	J	0.0757	0.204		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.76		0.0818	0.409		2
06126	Barium	7440-39-3	71.9		0.108	0.409		2
06127	Beryllium	7440-41-7	0.427		0.0164	0.102		2
06128	Cadmium	7440-43-9	0.440		0.0450	0.102		2
06131	Chromium	7440-47-3	15.3		0.123	0.409		2
06132	Cobalt	7440-48-4	4.91		0.0204	0.102		2
06133	Copper	7440-50-8	13.5		0.0818	0.409		2
06135	Lead	7439-92-1	34.3		0.0104	0.204		2
06138	Molybdenum	7439-98-7	0.749		0.0511	0.102		2
06139	Nickel	7440-02-0	11.3		0.102	0.409		2
06141	Selenium	7782-49-2	0.109	J	0.0593	0.409		2
06142	Silver	7440-22-4	0.107		0.0145	0.102		2
06145	Thallium	7440-28-0	0.285		0.0307	0.102		2
06148	Vanadium	7440-62-2	31.2		0.0225	0.102		2
06149	Zinc	7440-66-6	186		1.43	7.67		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	3.16		0.0352	0.501		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.72	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA6-SS-0.0-0.5

LLI Sample # SW 6358386
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 07:30

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1003 SDG#: DE210-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.09	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	2.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11220SLC026	08/17/2011	14:32	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11220SLB026	08/12/2011	13:23	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11220SLB026	08/09/2011	06:45	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11220SLC026	08/09/2011	06:45	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200018A	08/10/2011	03:22	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112200012A	08/26/2011	18:17	Melissa McDermott	25
01363	12a Pesticides by 8081A	SW-846 8081A	1	112200012A	08/30/2011	01:57	Melissa McDermott	100
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112200013A	08/11/2011	23:41	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112200012A	08/08/2011	16:35	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112200013A	08/08/2011	16:35	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200018A	08/08/2011	22:15	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	112145708004	08/04/2011	22:36	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708004	08/04/2011	22:36	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708004	08/04/2011	22:36	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112145708004	08/04/2011	22:36	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112145708004	08/04/2011	22:36	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708004	08/04/2011	22:36	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708004	08/04/2011	22:36	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112145708004	08/04/2011	22:36	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708004	08/04/2011	22:36	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112145708004	08/04/2011	22:36	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112145708004	08/04/2011	22:36	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708004	08/04/2011	22:36	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-028-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA6-SS-0.0-0.5

LLI Sample # SW 6358386
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 07:30

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1003 SDG#: DE210-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112145708004	08/04/2011 22:36	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112145708004	08/04/2011 22:36	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112141026001A	08/05/2011 04:51	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026001A	08/05/2011 04:51	David K Beck	2
06126	Barium	SW-846 6020	1	112141026001D	08/05/2011 04:51	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026001A	08/05/2011 04:51	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026001A	08/05/2011 04:51	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026001A	08/05/2011 04:51	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026001A	08/05/2011 04:51	David K Beck	2
06133	Copper	SW-846 6020	1	112141026001A	08/05/2011 04:51	David K Beck	2
06135	Lead	SW-846 6020	1	112141026001A	08/05/2011 04:51	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026001C	08/05/2011 04:51	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026001A	08/05/2011 04:51	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026001B	08/05/2011 04:51	David K Beck	2
06142	Silver	SW-846 6020	1	112141026001A	08/05/2011 04:51	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026001A	08/05/2011 04:51	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026001A	08/05/2011 04:51	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026001A	08/09/2011 19:12	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112145711002	08/03/2011 09:10	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708004	08/04/2011 07:59	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026001	08/04/2011 09:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711002	08/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621203A	08/05/2011 02:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11216284201A	08/06/2011 05:16	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11221243202A	08/11/2011 00:30	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621203A	08/04/2011 10:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11216284201A	08/04/2011 15:20	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11215039401A	08/03/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11221243202A	08/09/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402A	08/05/2011 19:10	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: DUP09-SA6-QC-072711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA6-QC-072711

LLI Sample # SW 6358387
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:28

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1004 SDG#: DE210-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(b)fluoranthene	205-99-2	22	J	17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	23	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	24	J	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Chrysene	218-01-9	25	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP09-SA6-QC-072711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA6-QC-072711

LLI Sample # SW 6358387
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:28

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1004 SDG#: DE210-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	17	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.6		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.6		5
10138	Anthracene	120-12-7	2.1	J	1.7	8.6		5
10138	Benzo(a)anthracene	56-55-3	4.8	J	3.4	8.6		5
10138	Benzo(a)pyrene	50-32-8	5.5	J	3.4	8.6		5
10138	Benzo(k)fluoranthene	207-08-9	4.3	J	3.4	8.6		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.6		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	1,000		31	93		5
10138	Fluoranthene	206-44-0	17		3.4	8.6		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.6		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6	J	3.4	8.6		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.6		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.6		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.6		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.6		5
10138	Phenanthrene	85-01-8	5.6	J	3.4	8.6		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	3.4		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	78	U	78	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: DUP09-SA6-QC-072711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA6-QC-072711

LLI Sample # SW 6358387
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:28

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1004 SDG#: DE210-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.34	U	0.34	0.85		5
01363	Alpha BHC	319-84-6	0.17	U	0.17	0.85		5
01363	Beta BHC	319-85-7	0.31	U	0.31	0.85		5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.85		5
01363	Chlordane	57-74-9	4.1	U	4.1	17		5
01363	p,p-DDD	72-54-8	0.34	U	0.34	1.7		5
01363	p,p-DDE	72-55-9	4.5	U	4.5	4.5		5
01363	p,p-DDT	50-29-3	140		4.2	22		25
01363	Delta BHC	319-86-8	0.18	U	0.18	0.85		5
01363	Dieldrin	60-57-1	3.0	U	3.0	3.0		5
01363	Endosulfan I	959-98-8	0.23	U	0.23	0.85		5
01363	Endosulfan II	33213-65-9	0.34	U	0.34	1.7		5
01363	Endosulfan Sulfate	1031-07-8	0.34	U	0.34	1.7		5
01363	Endrin	72-20-8	1.4	U	1.4	1.7		5
01363	Endrin Aldehyde	7421-93-4	1.4	U	1.4	1.7		5
01363	Endrin Ketone	53494-70-5	0.34	U	0.34	1.7		5
01363	Heptachlor	76-44-8	0.31	U	0.31	0.85		5
01363	Heptachlor Epoxide	1024-57-3	1.4	U	1.4	1.4		5
01363	Methoxychlor	72-43-5	7.6	U	7.6	8.5		5
01363	Mirex	2385-85-5	0.34	U	0.34	1.7		5
01363	Toxaphene	8001-35-2	200	U	200	200		5

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1,000	U	1,000	3,400		1000
10225	Aroclor 5442	12642-23-8	1,000	U	1,000	3,400		1000
10225	Aroclor 5460	11126-42-4	9,000		1,000	3,400		1000
10225	PCB-1016	12674-11-2	340	U	340	1,700		1000
10225	PCB-1221	11104-28-2	340	U	340	1,700		1000
10225	PCB-1232	11141-16-5	340	U	340	1,700		1000
10225	PCB-1242	53469-21-9	340	U	340	1,700		1000
10225	PCB-1248	12672-29-6	340	U	340	1,700		1000
10225	PCB-1254	11097-69-1	4,300		340	1,700		1000
10225	PCB-1260	11096-82-5	400	U	400	1,700		1000
10225	PCB-1262	37324-23-5	340	U	340	1,700		1000
10225	PCB-1268	11100-14-4	340	U	340	1,700		1000
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	10,700		6.22	20.6		1
07914	Boron	7440-42-8	5.76		0.370	5.14		1
01650	Calcium	7440-70-2	4,490		2.57	20.6		1
01654	Iron	7439-89-6	18,400		2.68	20.6		1
01656	Lithium	7439-93-2	17.7		0.64	2.1		1

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Sample Description: DUP09-SA6-QC-072711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA6-QC-072711

LLI Sample # SW 6358387
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:28

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1004 SDG#: DE210-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	3,530		0.452	10.3		1
06958	Manganese	7439-96-5	294		0.0370	0.514		1
10145	Phosphorus	7723-14-0	472		0.360	10.3		1
01662	Potassium	7440-09-7	2,850		11.6	51.4		1
01667	Sodium	7440-23-5	98.5	J	6.12	103		1
07968	Strontium	7440-24-6	20.0		0.0257	0.514		1
06969	Tin	7440-31-5	3.96	J	0.329	10.3		1
06970	Titanium	7440-32-6	884		0.0730	1.03		1
10146	Zirconium	7440-67-7	2.79	J	0.473	5.14		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.370		0.0761	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.52		0.0822	0.411		2
06126	Barium	7440-39-3	98.8		0.109	0.411		2
06127	Beryllium	7440-41-7	0.359		0.0164	0.103		2
06128	Cadmium	7440-43-9	1.06		0.0452	0.103		2
06131	Chromium	7440-47-3	24.5		0.123	0.411		2
06132	Cobalt	7440-48-4	6.58		0.0206	0.103		2
06133	Copper	7440-50-8	57.7		0.0822	0.411		2
06135	Lead	7439-92-1	59.4		0.0105	0.206		2
06138	Molybdenum	7439-98-7	3.89		0.0514	0.103		2
06139	Nickel	7440-02-0	31.5		0.103	0.411		2
06141	Selenium	7782-49-2	0.0725	J	0.0596	0.411		2
06142	Silver	7440-22-4	0.506		0.0146	0.103		2
06145	Thallium	7440-28-0	0.187		0.0308	0.103		2
06148	Vanadium	7440-62-2	34.1		0.0226	0.103		2
06149	Zinc	7440-66-6	172		0.576	3.08		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0528	J	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.46	J	0.21	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.33		0.0100	0.0100		1

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Sample Description: DUP09-SA6-QC-072711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA6-QC-072711

LLI Sample # SW 6358387
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:28

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1004 SDG#: DE210-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	2.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11220SLC026	08/17/2011 21:37	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11220SLB026	08/12/2011 13:56	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11220SLB026	08/09/2011 06:45	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11220SLC026	08/09/2011 06:45	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112200018A	08/10/2011 03:50	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112200012A	08/25/2011 10:02	Melissa McDermott	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112200012A	08/26/2011 18:02	Melissa McDermott	25
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112200013A	08/13/2011 15:44	Sarah M Snyder	1000
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112200012A	08/08/2011 16:35	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112200013A	08/08/2011 16:35	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112200018A	08/08/2011 22:15	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	112145708004	08/04/2011 22:40	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708004	08/04/2011 22:40	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708004	08/04/2011 22:40	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112145708004	08/04/2011 22:40	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112145708004	08/04/2011 22:40	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708004	08/04/2011 22:40	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708004	08/04/2011 22:40	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112145708004	08/04/2011 22:40	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708004	08/04/2011 22:40	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112145708004	08/04/2011 22:40	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112145708004	08/04/2011 22:40	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708004	08/04/2011 22:40	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112145708004	08/04/2011 22:40	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112145708004	08/04/2011 22:40	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112141026001A	08/05/2011 05:00	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026001A	08/05/2011 05:00	David K Beck	2
06126	Barium	SW-846 6020	1	112141026001D	08/05/2011 05:00	David K Beck	2

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Sample Description: DUP09-SA6-QC-072711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA6-QC-072711

LLI Sample # SW 6358387
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:28

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1004 SDG#: DE210-04FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	112141026001A	08/05/2011 05:00	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026001A	08/05/2011 05:00	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026001A	08/05/2011 05:00	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026001A	08/05/2011 05:00	David K Beck	2
06133	Copper	SW-846 6020	1	112141026001A	08/05/2011 05:00	David K Beck	2
06135	Lead	SW-846 6020	1	112141026001A	08/05/2011 05:00	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026001C	08/05/2011 05:00	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026001A	08/05/2011 05:00	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026001B	08/05/2011 05:00	David K Beck	2
06142	Silver	SW-846 6020	1	112141026001A	08/05/2011 05:00	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026001A	08/05/2011 05:00	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026001A	08/05/2011 05:00	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026001A	08/05/2011 05:00	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711002	08/03/2011 08:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708004	08/04/2011 07:59	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026001	08/04/2011 09:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711002	08/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621203A	08/05/2011 03:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11216284201A	08/06/2011 05:39	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11221243202A	08/11/2011 00:59	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621203A	08/04/2011 10:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11216284201A	08/04/2011 15:20	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11215039401A	08/03/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11221243202A	08/09/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402A	08/05/2011 19:10	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-069-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA6-SB-4.0-5.0

LLI Sample # SW 6358388
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:35

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1005 SDG#: DE210-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	29	J	18	180		1
04688	Benzo(a)pyrene	50-32-8	24	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	27	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	27	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Chrysene	218-01-9	35	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Fluoranthene	206-44-0	55	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1

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Sample Description: SL-069-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA6-SB-4.0-5.0

LLI Sample # SW 6358388
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:35

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1005 SDG#: DE210-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenanthrene	85-01-8	41	J	18	180		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	65	J	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.2	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.83	J	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.82	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.52
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	8.5		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-069-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA6-SB-4.0-5.0

LLI Sample # SW 6358388
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:35

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1005 SDG#: DE210-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	5.9		0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.88	U	0.88	2.6		2
10199	EFH (C15-C20)	n.a.	0.88	U	0.88	2.6		2
10199	EFH (C21-C30)	n.a.	8.6		0.88	2.6		2
10199	EFH (C30 - C40)	n.a.	25		0.88	2.6		2
10199	EFH (C8-C11)	n.a.	0.88	U	0.88	2.6		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		6.36	21.0		1
07914	Boron	7440-42-8	6.96		0.379	5.26		1
01650	Calcium	7440-70-2	12,100		2.63	21.0		1
01654	Iron	7439-89-6	22,900		2.75	21.0		1
01656	Lithium	7439-93-2	28.1		0.65	2.1		1
01657	Magnesium	7439-95-4	6,670		0.463	10.5		1
06958	Manganese	7439-96-5	311		0.0379	0.526		1
10145	Phosphorus	7723-14-0	538		0.368	10.5		1
01662	Potassium	7440-09-7	3,330		11.9	52.6		1
01667	Sodium	7440-23-5	176		6.26	105		1
07968	Strontium	7440-24-6	32.1		0.0263	0.526		1
06969	Tin	7440-31-5	3.02	J	0.337	10.5		1
06970	Titanium	7440-32-6	1,240		0.0747	1.05		1

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Sample Description: SL-069-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA6-SB-4.0-5.0

LLI Sample # SW 6358388
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:35

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1005 SDG#: DE210-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	3.37	J	0.484	5.26		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0794	U	0.0794	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.27		0.0858	0.429		2
06126	Barium	7440-39-3	86.9		0.114	0.429		2
06127	Beryllium	7440-41-7	0.458		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.124		0.0472	0.107		2
06131	Chromium	7440-47-3	18.0		0.129	0.429		2
06132	Cobalt	7440-48-4	6.34		0.0215	0.107		2
06133	Copper	7440-50-8	9.76		0.0858	0.429		2
06135	Lead	7439-92-1	5.46		0.0109	0.215		2
06138	Molybdenum	7439-98-7	0.456		0.0536	0.107		2
06139	Nickel	7440-02-0	12.0		0.107	0.429		2
06141	Selenium	7782-49-2	0.151	J	0.0622	0.429		2
06142	Silver	7440-22-4	0.0405	J	0.0152	0.107		2
06145	Thallium	7440-28-0	0.242		0.0322	0.107		2
06148	Vanadium	7440-62-2	39.8		0.0236	0.107		2
06149	Zinc	7440-66-6	57.7		0.601	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0198	J	0.0076	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.76	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.16		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-069-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA6-SB-4.0-5.0

LLI Sample # SW 6358388
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:35

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1005 SDG#: DE210-05

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-069-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11220SLC026	08/17/2011 22:02	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11220SLB026	08/12/2011 14:29	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11220SLB026	08/09/2011 06:45	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11220SLC026	08/09/2011 06:45	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11215A34A	08/03/2011 16:13	Linda C Pape	22.52
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120925052	07/28/2011 14:14	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201120925052	07/28/2011 14:14	Christopher D Meeks	n.a.
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112200028A	08/10/2011 14:39	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112200013A	08/13/2011 16:02	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112200013A	08/08/2011 16:35	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112200028A	08/09/2011 09:30	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112110021A	08/01/2011 20:04	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112130001A	08/01/2011 11:40	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112200040A	08/11/2011 16:03	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112170029A	08/09/2011 21:27	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112170029A	08/06/2011 12:35	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112200040A	08/09/2011 08:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112110021A	08/01/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112130001A	08/01/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112145708004	08/04/2011 22:44	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708004	08/04/2011 22:44	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708004	08/04/2011 22:44	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112145708004	08/04/2011 22:44	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112145708004	08/04/2011 22:44	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708004	08/04/2011 22:44	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708004	08/04/2011 22:44	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112145708004	08/04/2011 22:44	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708004	08/04/2011 22:44	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112145708004	08/04/2011 22:44	John W Yanzuk II	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-069-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA6-SB-4.0-5.0

LLI Sample # SW 6358388
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:35

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1005 SDG#: DE210-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112145708004	08/04/2011 22:44	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708004	08/04/2011 22:44	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112145708004	08/04/2011 22:44	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112145708004	08/04/2011 22:44	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112141026001A	08/05/2011 05:03	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026001A	08/05/2011 05:03	David K Beck	2
06126	Barium	SW-846 6020	1	112141026001D	08/05/2011 05:03	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026001A	08/05/2011 05:03	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026001A	08/05/2011 05:03	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026001A	08/05/2011 05:03	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026001A	08/05/2011 05:03	David K Beck	2
06133	Copper	SW-846 6020	1	112141026001A	08/05/2011 05:03	David K Beck	2
06135	Lead	SW-846 6020	1	112141026001A	08/05/2011 05:03	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026001C	08/05/2011 05:03	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026001A	08/05/2011 05:03	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026001B	08/05/2011 05:03	David K Beck	2
06142	Silver	SW-846 6020	1	112141026001A	08/05/2011 05:03	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026001A	08/05/2011 05:03	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026001A	08/05/2011 05:03	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026001A	08/05/2011 05:03	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711002	08/03/2011 09:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708004	08/04/2011 07:59	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026001	08/04/2011 09:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711002	08/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621203A	08/05/2011 03:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11216284201A	08/06/2011 06:02	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11221243202A	08/11/2011 01:21	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621203A	08/04/2011 10:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11216284201A	08/04/2011 15:20	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11215039401A	08/03/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11221243202A	08/09/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402A	08/05/2011 19:10	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-069-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA6-SB-9.0-10.0

LLI Sample # SW 6358389
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:45

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1006 SDG#: DE210-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzo(a)pyrene	50-32-8	20	J	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	27	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Fluoranthene	206-44-0	24	J	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Sample Description: SL-069-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA6-SB-9.0-10.0

LLI Sample # SW 6358389
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:45

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1006 SDG#: DE210-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	22	J	19	190		1
04688	Tetralin	119-64-2	190	U	190	190		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	1.0	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	7.7		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	3.5		0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	3.9		0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	11		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	1.2	J	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.9		0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.79	J	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	2.3		0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.11
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	230	U	230	760		200
10225	Aroclor 5442	12642-23-8	230	U	230	760		200
10225	Aroclor 5460	11126-42-4	1,800		230	760		200
10225	PCB-1016	12674-11-2	76	U	76	390		200
10225	PCB-1221	11104-28-2	76	U	76	390		200
10225	PCB-1232	11141-16-5	76	U	76	390		200

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Sample Description: SL-069-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA6-SB-9.0-10.0

LLI Sample # SW 6358389
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:45

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1006 SDG#: DE210-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1242	53469-21-9	76	U	76	390		200
10225	PCB-1248	12672-29-6	76	U	76	390		200
10225	PCB-1254	11097-69-1	680		76	390		200
10225	PCB-1260	11096-82-5	90	U	90	390		200
10225	PCB-1262	37324-23-5	76	U	76	390		200
10225	PCB-1268	11100-14-4	76	U	76	390		200
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.92	U	0.92	2.8		2
10199	EFH (C15-C20)	n.a.	0.92	U	0.92	2.8		2
10199	EFH (C21-C30)	n.a.	10		0.92	2.8		2
10199	EFH (C30 - C40)	n.a.	47		0.92	2.8		2
10199	EFH (C8-C11)	n.a.	0.92	U	0.92	2.8		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,300		6.89	22.8		1
07914	Boron	7440-42-8	13.1		0.410	5.69		1
01650	Calcium	7440-70-2	46,000		2.85	22.8		1
01654	Iron	7439-89-6	26,800		2.97	22.8		1
01656	Lithium	7439-93-2	26.2		0.71	2.3		1
01657	Magnesium	7439-95-4	7,220		0.501	11.4		1
06958	Manganese	7439-96-5	295		0.0410	0.569		1
10145	Phosphorus	7723-14-0	515		0.398	11.4		1
01662	Potassium	7440-09-7	4,300		12.9	56.9		1
01667	Sodium	7440-23-5	235		6.77	114		1
07968	Strontium	7440-24-6	86.4		0.0285	0.569		1
06969	Tin	7440-31-5	3.08	J	0.364	11.4		1
06970	Titanium	7440-32-6	1,190		0.0808	1.14		1
10146	Zirconium	7440-67-7	6.72		0.524	5.69		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-069-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA6-SB-9.0-10.0

LLI Sample # SW 6358389
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:45

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1006 SDG#: DE210-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.101	J	0.0842	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.24		0.0910	0.455		2
06126	Barium	7440-39-3	113		0.121	0.455		2
06127	Beryllium	7440-41-7	0.679		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.223		0.0501	0.114		2
06131	Chromium	7440-47-3	27.7		0.137	0.455		2
06132	Cobalt	7440-48-4	9.26		0.0228	0.114		2
06133	Copper	7440-50-8	13.8		0.0910	0.455		2
06135	Lead	7439-92-1	7.98		0.0116	0.228		2
06138	Molybdenum	7439-98-7	0.546		0.0569	0.114		2
06139	Nickel	7440-02-0	17.7		0.114	0.455		2
06141	Selenium	7782-49-2	0.149	J	0.0660	0.455		2
06142	Silver	7440-22-4	0.0308	J	0.0162	0.114		2
06145	Thallium	7440-28-0	0.288		0.0341	0.114		2
06148	Vanadium	7440-62-2	56.8		0.0250	0.114		2
06149	Zinc	7440-66-6	66.1		0.637	3.41		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.364		0.0078	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.93		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-069-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA6-SB-9.0-10.0

LLI Sample # SW 6358389
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:45

Submitted: 07/28/2011 09:25
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1006 SDG#: DE210-06

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-069-SA6-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11220SLC026	08/17/2011 22:27	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11220SLB026	08/12/2011 15:01	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11220SLB026	08/09/2011 06:45	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11220SLC026	08/09/2011 06:45	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11215A34A	08/03/2011 16:48	Linda C Pape	21.11
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120925052	07/28/2011 14:16	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201120925052	07/28/2011 14:16	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112200013A	08/13/2011 16:21	Sarah M Snyder	200
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112200013A	08/08/2011 16:35	JoElla L Rice	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112110021A	08/01/2011 20:18	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112130001A	08/01/2011 11:53	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112200040A	08/11/2011 16:48	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112170029A	08/09/2011 21:51	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112170029A	08/06/2011 12:35	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112200040A	08/09/2011 08:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112110021A	08/01/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112130001A	08/01/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112145708004	08/04/2011 22:47	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708004	08/04/2011 22:47	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708004	08/04/2011 22:47	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112145708004	08/04/2011 22:47	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112145708004	08/04/2011 22:47	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708004	08/04/2011 22:47	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708004	08/04/2011 22:47	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112145708004	08/04/2011 22:47	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708004	08/04/2011 22:47	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112145708004	08/04/2011 22:47	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112145708004	08/04/2011 22:47	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708004	08/04/2011 22:47	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112145708004	08/04/2011 22:47	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112145708004	08/04/2011 22:47	John W Yanzuk II	1

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Sample Description: SL-069-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA6-SB-9.0-10.0

LLI Sample # SW 6358389
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1006 SDG#: DE210-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112141026001A	08/05/2011 05:07	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026001A	08/05/2011 05:07	David K Beck	2
06126	Barium	SW-846 6020	1	112141026001D	08/05/2011 05:07	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026001A	08/05/2011 05:07	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026001A	08/05/2011 05:07	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026001A	08/05/2011 05:07	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026001A	08/05/2011 05:07	David K Beck	2
06133	Copper	SW-846 6020	1	112141026001A	08/05/2011 05:07	David K Beck	2
06135	Lead	SW-846 6020	1	112141026001A	08/05/2011 05:07	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026001C	08/05/2011 05:07	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026001A	08/05/2011 05:07	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026001B	08/05/2011 05:07	David K Beck	2
06142	Silver	SW-846 6020	1	112141026001A	08/05/2011 05:07	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026001A	08/05/2011 05:07	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026001A	08/05/2011 05:07	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026001A	08/05/2011 05:07	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711002	08/03/2011 09:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708004	08/04/2011 07:59	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026001	08/04/2011 09:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711002	08/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621203A	08/05/2011 04:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11216284201A	08/06/2011 06:25	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11221243202A	08/11/2011 01:28	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621203A	08/04/2011 10:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11216284201A	08/04/2011 15:20	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11215039401A	08/03/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11221243202A	08/09/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402A	08/05/2011 19:10	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-076-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA6-SB-2.0-3.0

LLI Sample # SW 6358390
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 11:05

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1007 SDG#: DE210-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SL-076-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA6-SB-2.0-3.0

LLI Sample # SW 6358390
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 11:05

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1007 SDG#: DE210-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	2.1		0.72	1.8		1
10138	Acenaphthylene	208-96-8	1.9		0.36	1.8		1
10138	Anthracene	120-12-7	3.8		0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	4.4		0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	3.2		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.5		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	2.3		0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	3.3		0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	4.1		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	2.6		0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.4	J	6.5	20		1
10138	Fluoranthene	206-44-0	4.8		0.72	1.8		1
10138	Fluorene	86-73-7	3.3		0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.5		0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.79	J	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.84	J	0.72	1.8		1
10138	Naphthalene	91-20-3	0.77	J	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	4.1		0.72	1.8		1
10138	Pyrene	129-00-0	3.8		0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.16
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1

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SSFL Area IV Collocated Soil Sampling
SL-076-SA6-SB-2.0-3.0

LLI Sample # SW 6358390
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 11:05

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1007 SDG#: DE210-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,800		6.36	21.0		1
07914	Boron	7440-42-8	6.34		0.379	5.26		1
01650	Calcium	7440-70-2	4,060		2.63	21.0		1
01654	Iron	7439-89-6	28,500		5.49	42.1		2
01656	Lithium	7439-93-2	43.4		0.65	2.1		1
01657	Magnesium	7439-95-4	7,480		0.463	10.5		1
06958	Manganese	7439-96-5	413		0.0379	0.526		1
10145	Phosphorus	7723-14-0	644		0.368	10.5		1
01662	Potassium	7440-09-7	3,120		11.9	52.6		1
01667	Sodium	7440-23-5	193		6.26	105		1
07968	Strontium	7440-24-6	18.4		0.0263	0.526		1
06969	Tin	7440-31-5	3.71	J	0.337	10.5		1
06970	Titanium	7440-32-6	1,360		0.0747	1.05		1
10146	Zirconium	7440-67-7	3.96	J	0.484	5.26		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-076-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA6-SB-2.0-3.0

LLI Sample # SW 6358390
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 11:05

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Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1007 SDG#: DE210-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0764 U	0.0764	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.92	0.0825	0.413		2
06126	Barium	7440-39-3	99.0	0.109	0.413		2
06127	Beryllium	7440-41-7	0.772	0.0165	0.103		2
06128	Cadmium	7440-43-9	0.158	0.0454	0.103		2
06131	Chromium	7440-47-3	20.3	0.124	0.413		2
06132	Cobalt	7440-48-4	10.3	0.0206	0.103		2
06133	Copper	7440-50-8	29.1	0.0825	0.413		2
06135	Lead	7439-92-1	6.79	0.0105	0.206		2
06138	Molybdenum	7439-98-7	0.446	0.0516	0.103		2
06139	Nickel	7440-02-0	18.0	0.103	0.413		2
06141	Selenium	7782-49-2	0.0901 J	0.0598	0.413		2
06142	Silver	7440-22-4	0.0295 J	0.0147	0.103		2
06145	Thallium	7440-28-0	0.304	0.0310	0.103		2
06148	Vanadium	7440-62-2	39.3	0.0227	0.103		2
06149	Zinc	7440-66-6	90.2	0.578	3.10		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075 U	0.0075	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.5	0.87	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.18	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: SL-076-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA6-SB-2.0-3.0

LLI Sample # SW 6358390
LLI Group # 1258702
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E1007 SDG#: DE210-07

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-076-SA6-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11220SLC026	08/17/2011 22:52	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11220SLB026	08/12/2011 15:34	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11220SLB026	08/09/2011 06:45	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11220SLC026	08/09/2011 06:45	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11215A34A	08/03/2011 17:24	Linda C Pape	22.16
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120925052	07/28/2011 14:17	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201120925052	07/28/2011 14:17	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112200013A	08/13/2011 16:39	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112200013A	08/08/2011 16:35	JoElla L Rice	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112110021A	08/01/2011 20:33	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112130001A	08/01/2011 12:06	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112200040A	08/11/2011 13:04	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112170029A	08/09/2011 20:40	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112170029A	08/06/2011 12:35	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112200040A	08/09/2011 08:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112110021A	08/01/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112130001A	08/01/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112145708004	08/04/2011 22:51	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708004	08/04/2011 22:51	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708004	08/04/2011 22:51	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112145708004	08/05/2011 19:20	John W Yanzuk II	2
01656	Lithium	SW-846 6010B	1	112145708004	08/04/2011 22:51	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708004	08/04/2011 22:51	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708004	08/04/2011 22:51	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112145708004	08/04/2011 22:51	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708004	08/04/2011 22:51	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112145708004	08/04/2011 22:51	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112145708004	08/04/2011 22:51	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708004	08/04/2011 22:51	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112145708004	08/04/2011 22:51	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112145708004	08/04/2011 22:51	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA6-SB-2.0-3.0

LLI Sample # SW 6358390
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 11:05

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1007 SDG#: DE210-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112141026001A	08/05/2011 05:10	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026001A	08/05/2011 05:10	David K Beck	2
06126	Barium	SW-846 6020	1	112141026001D	08/05/2011 05:10	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026001A	08/05/2011 05:10	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026001A	08/05/2011 05:10	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026001A	08/05/2011 05:10	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026001A	08/05/2011 05:10	David K Beck	2
06133	Copper	SW-846 6020	1	112141026001A	08/05/2011 05:10	David K Beck	2
06135	Lead	SW-846 6020	1	112141026001A	08/05/2011 05:10	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026001C	08/05/2011 05:10	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026001A	08/05/2011 05:10	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026001B	08/05/2011 05:10	David K Beck	2
06142	Silver	SW-846 6020	1	112141026001A	08/05/2011 05:10	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026001A	08/05/2011 05:10	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026001A	08/05/2011 05:10	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026001A	08/05/2011 05:10	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711002	08/03/2011 09:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708004	08/04/2011 07:59	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026001	08/04/2011 09:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711002	08/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621203A	08/05/2011 04:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11216284201A	08/06/2011 06:48	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11221243202A	08/11/2011 01:43	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621203A	08/04/2011 10:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11216284201A	08/04/2011 15:20	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11215039401A	08/03/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11221243202A	08/09/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402A	08/05/2011 19:10	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-089-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA6-SB-4.0-5.0

LLI Sample # SW 6358391
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 09:50

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1008 SDG#: DE210-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: SL-089-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA6-SB-4.0-5.0

LLI Sample # SW 6358391
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 09:50

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1008 SDG#: DE210-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.2		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.2		5
10138	Anthracene	120-12-7	7.9	J	1.8	9.2		5
10138	Benzo(a)anthracene	56-55-3	9.2	J	3.7	9.2		5
10138	Benzo(a)pyrene	50-32-8	7.2	J	3.7	9.2		5
10138	Benzo(b)fluoranthene	205-99-2	9.3		3.7	9.2		5
10138	Benzo(g,h,i)perylene	191-24-2	6.1	J	3.7	9.2		5
10138	Benzo(k)fluoranthene	207-08-9	10		3.7	9.2		5
10138	Chrysene	218-01-9	11		1.8	9.2		5
10138	Dibenz(a,h)anthracene	53-70-3	4.7	J	3.7	9.2		5
10138	Fluoranthene	206-44-0	11		3.7	9.2		5
10138	Fluorene	86-73-7	4.1	J	3.7	9.2		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.9	J	3.7	9.2		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.2		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.2		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.2		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.2		5
10138	Phenanthrene	85-01-8	8.3	J	3.7	9.2		5
10138	Pyrene	129-00-0	8.5	J	3.7	9.2		5
	Reporting limits were raised due to interference from the sample matrix.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.8
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	9.0		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1

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Sample Description: SL-089-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA6-SB-4.0-5.0

LLI Sample # SW 6358391
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 09:50

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1008 SDG#: DE210-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	2.8		0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.88	U	0.88	2.6		2
10199	EFH (C15-C20)	n.a.	0.88	U	0.88	2.6		2
10199	EFH (C21-C30)	n.a.	9.5		0.88	2.6		2
10199	EFH (C30 - C40)	n.a.	36		0.88	2.6		2
10199	EFH (C8-C11)	n.a.	0.88	U	0.88	2.6		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,800		6.33	20.9		1
07914	Boron	7440-42-8	6.97		0.377	5.23		1
01650	Calcium	7440-70-2	16,200		2.62	20.9		1
01654	Iron	7439-89-6	22,700		2.73	20.9		1
01656	Lithium	7439-93-2	25.8		0.65	2.1		1
01657	Magnesium	7439-95-4	5,780		0.460	10.5		1
06958	Manganese	7439-96-5	302		0.0377	0.523		1
10145	Phosphorus	7723-14-0	469		0.366	10.5		1
01662	Potassium	7440-09-7	3,270		11.8	52.3		1
01667	Sodium	7440-23-5	180		6.23	105		1
07968	Strontium	7440-24-6	39.6		0.0262	0.523		1
06969	Tin	7440-31-5	2.87	J	0.335	10.5		1
06970	Titanium	7440-32-6	1,160		0.0743	1.05		1
10146	Zirconium	7440-67-7	3.86	J	0.481	5.23		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-089-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA6-SB-4.0-5.0

LLI Sample # SW 6358391
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 09:50

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1008 SDG#: DE210-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0782 U	0.0782	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.08	0.0845	0.423		2
06126	Barium	7440-39-3	83.5	0.112	0.423		2
06127	Beryllium	7440-41-7	0.481	0.0169	0.106		2
06128	Cadmium	7440-43-9	0.122	0.0465	0.106		2
06131	Chromium	7440-47-3	18.3	0.127	0.423		2
06132	Cobalt	7440-48-4	6.42	0.0211	0.106		2
06133	Copper	7440-50-8	9.46	0.0845	0.423		2
06135	Lead	7439-92-1	5.52	0.0108	0.211		2
06138	Molybdenum	7439-98-7	0.500	0.0528	0.106		2
06139	Nickel	7440-02-0	11.6	0.106	0.423		2
06141	Selenium	7782-49-2	0.113 J	0.0613	0.423		2
06142	Silver	7440-22-4	0.0241 J	0.0150	0.106		2
06145	Thallium	7440-28-0	0.237	0.0317	0.106		2
06148	Vanadium	7440-62-2	38.1	0.0232	0.106		2
06149	Zinc	7440-66-6	54.1	0.592	3.17		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0189 J	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5	0.88	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.07	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-089-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA6-SB-4.0-5.0

LLI Sample # SW 6358391
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 09:50

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1008 SDG#: DE210-08

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-089-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11220SLC026	08/17/2011 23:17	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11220SLB026	08/12/2011 16:06	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11220SLB026	08/09/2011 06:45	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11220SLC026	08/09/2011 06:45	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11215A34A	08/03/2011 18:00	Linda C Pape	20.8
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120925052	07/28/2011 14:19	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201120925052	07/28/2011 14:19	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112200013A	08/13/2011 16:58	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112200013A	08/08/2011 16:35	JoElla L Rice	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112110021A	08/01/2011 20:48	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112130001A	08/01/2011 12:18	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112200040A	08/11/2011 15:18	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112170029A	08/09/2011 22:15	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112170029A	08/06/2011 12:35	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112200040A	08/09/2011 08:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112110021A	08/01/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112130001A	08/01/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112145708004	08/04/2011 22:55	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708004	08/04/2011 22:55	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708004	08/04/2011 22:55	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112145708004	08/04/2011 22:55	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112145708004	08/04/2011 22:55	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708004	08/04/2011 22:55	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708004	08/04/2011 22:55	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112145708004	08/04/2011 22:55	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708004	08/04/2011 22:55	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112145708004	08/04/2011 22:55	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112145708004	08/04/2011 22:55	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708004	08/04/2011 22:55	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112145708004	08/04/2011 22:55	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112145708004	08/04/2011 22:55	John W Yanzuk II	1

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Sample Description: SL-089-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA6-SB-4.0-5.0

LLI Sample # SW 6358391
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 09:50

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1008 SDG#: DE210-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112141026001A	08/05/2011 05:13	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026001A	08/05/2011 05:13	David K Beck	2
06126	Barium	SW-846 6020	1	112141026001D	08/05/2011 05:13	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026001A	08/05/2011 05:13	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026001A	08/05/2011 05:13	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026001A	08/05/2011 05:13	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026001A	08/05/2011 05:13	David K Beck	2
06133	Copper	SW-846 6020	1	112141026001A	08/05/2011 05:13	David K Beck	2
06135	Lead	SW-846 6020	1	112141026001A	08/05/2011 05:13	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026001C	08/05/2011 05:13	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026001A	08/05/2011 05:13	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026001B	08/05/2011 05:13	David K Beck	2
06142	Silver	SW-846 6020	1	112141026001A	08/05/2011 05:13	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026001A	08/05/2011 05:13	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026001A	08/05/2011 05:13	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026001A	08/05/2011 05:13	David K Beck	2
00159	Mercury	SW-846 7471A	2	112155711002	08/04/2011 11:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708004	08/04/2011 07:59	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026001	08/04/2011 09:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711002	08/02/2011 23:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	112155711002	08/04/2011 09:57	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621203A	08/05/2011 04:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11216284201A	08/06/2011 07:11	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11221243202A	08/11/2011 01:57	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621203A	08/04/2011 10:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11216284201A	08/04/2011 15:20	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11215039401A	08/03/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11221243202A	08/09/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402A	08/05/2011 19:10	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-089-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA6-SB-9.0-10.0

LLI Sample # SW 6358392
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 10:00

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1009 SDG#: DE210-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)pyrene	50-32-8	22	J	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	37	J	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	23	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Sample Description: SL-089-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA6-SB-9.0-10.0

LLI Sample # SW 6358392
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 10:00

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1009 SDG#: DE210-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	30	J	19	190		1
04688	Tetralin	119-64-2	190	U	190	190		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.46	J	0.37	1.9		1
10138	Anthracene	120-12-7	3.7		0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	21		0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	12		0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	21		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	2.4		0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.7	20		1
10138	Fluoranthene	206-44-0	36		0.74	1.9		1
10138	Fluorene	86-73-7	0.96	J	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.7		0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	12		0.74	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.01
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	36		1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1

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Sample Description: SL-089-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA6-SB-9.0-10.0

LLI Sample # SW 6358392
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 10:00

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1009 SDG#: DE210-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	29		0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.89	U	0.89	2.7		2
10199	EFH (C15-C20)	n.a.	0.93	J	0.89	2.7		2
10199	EFH (C21-C30)	n.a.	21		0.89	2.7		2
10199	EFH (C30 - C40)	n.a.	66		0.89	2.7		2
10199	EFH (C8-C11)	n.a.	0.89	U	0.89	2.7		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,800		6.67	22.1		1
07914	Boron	7440-42-8	10.9		0.397	5.51		1
01650	Calcium	7440-70-2	30,400		2.76	22.1		1
01654	Iron	7439-89-6	26,700		2.88	22.1		1
01656	Lithium	7439-93-2	24.9		0.68	2.2		1
01657	Magnesium	7439-95-4	6,540		0.485	11.0		1
06958	Manganese	7439-96-5	315		0.0397	0.551		1
10145	Phosphorus	7723-14-0	544		0.386	11.0		1
01662	Potassium	7440-09-7	3,940		12.5	55.1		1
01667	Sodium	7440-23-5	241		6.56	110		1
07968	Strontium	7440-24-6	63.7		0.0276	0.551		1
06969	Tin	7440-31-5	2.92	J	0.353	11.0		1
06970	Titanium	7440-32-6	1,110		0.0783	1.10		1
10146	Zirconium	7440-67-7	6.43		0.507	5.51		1

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Sample Description: SL-089-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA6-SB-9.0-10.0

LLI Sample # SW 6358392
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 10:00

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1009 SDG#: DE210-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.108	J	0.0785	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.95		0.0848	0.424		2
06126	Barium	7440-39-3	87.9		0.112	0.424		2
06127	Beryllium	7440-41-7	0.501		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.212		0.0467	0.106		2
06131	Chromium	7440-47-3	20.4		0.127	0.424		2
06132	Cobalt	7440-48-4	7.11		0.0212	0.106		2
06133	Copper	7440-50-8	11.9		0.0848	0.424		2
06135	Lead	7439-92-1	8.45		0.0108	0.212		2
06138	Molybdenum	7439-98-7	0.397		0.0530	0.106		2
06139	Nickel	7440-02-0	12.4		0.106	0.424		2
06141	Selenium	7782-49-2	0.166	J	0.0615	0.424		2
06142	Silver	7440-22-4	0.0321	J	0.0151	0.106		2
06145	Thallium	7440-28-0	0.227		0.0318	0.106		2
06148	Vanadium	7440-62-2	43.2		0.0233	0.106		2
06149	Zinc	7440-66-6	58.6		0.594	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.326		0.0078	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.33		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-089-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA6-SB-9.0-10.0

LLI Sample # SW 6358392
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 10:00

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1009 SDG#: DE210-09

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-089-SA6-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11220SLC026	08/18/2011 00:07	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11220SLB026	08/12/2011 16:38	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11220SLB026	08/09/2011 06:45	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11220SLC026	08/09/2011 06:45	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11215A34A	08/03/2011 18:37	Linda C Pape	22.01
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120925052	07/28/2011 14:20	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201120925052	07/28/2011 14:21	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112200013A	08/12/2011 01:32	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112200013A	08/08/2011 16:35	JoElla L Rice	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112110021A	08/01/2011 21:03	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112130001A	08/01/2011 12:31	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112200040A	08/11/2011 22:44	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112170029A	08/09/2011 22:39	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112170029A	08/06/2011 12:35	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112200040A	08/09/2011 08:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112110021A	08/01/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112130001A	08/01/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112145708004	08/04/2011 22:59	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708004	08/04/2011 22:59	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708004	08/04/2011 22:59	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112145708004	08/04/2011 22:59	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112145708004	08/04/2011 22:59	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708004	08/04/2011 22:59	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708004	08/04/2011 22:59	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112145708004	08/04/2011 22:59	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708004	08/04/2011 22:59	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112145708004	08/04/2011 22:59	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112145708004	08/04/2011 22:59	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708004	08/04/2011 22:59	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112145708004	08/04/2011 22:59	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112145708004	08/04/2011 22:59	John W Yanzuk II	1

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Sample Description: SL-089-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA6-SB-9.0-10.0

LLI Sample # SW 6358392
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 10:00

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1009 SDG#: DE210-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112141026001A	08/05/2011 05:16	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026001A	08/05/2011 05:16	David K Beck	2
06126	Barium	SW-846 6020	1	112141026001D	08/05/2011 05:16	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026001A	08/05/2011 05:16	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026001A	08/05/2011 05:16	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026001A	08/05/2011 05:16	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026001A	08/05/2011 05:16	David K Beck	2
06133	Copper	SW-846 6020	1	112141026001A	08/05/2011 05:16	David K Beck	2
06135	Lead	SW-846 6020	1	112141026001A	08/05/2011 05:16	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026001C	08/05/2011 05:16	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026001A	08/05/2011 05:16	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026001B	08/05/2011 05:16	David K Beck	2
06142	Silver	SW-846 6020	1	112141026001A	08/05/2011 05:16	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026001A	08/05/2011 05:16	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026001A	08/05/2011 05:16	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026001A	08/05/2011 05:16	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711002	08/03/2011 09:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708004	08/04/2011 07:59	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026001	08/04/2011 09:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711002	08/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621203A	08/05/2011 04:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11216284201A	08/06/2011 07:34	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11221243202A	08/11/2011 02:12	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621203A	08/04/2011 10:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11216284201A	08/04/2011 15:20	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11215039401A	08/03/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11221243202A	08/09/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402A	08/05/2011 19:10	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-117-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA6-SB-2.0-3.0

LLI Sample # SW 6358393
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 12:15

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1010 SDG#: DE210-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	70	U	70	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: SL-117-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA6-SB-2.0-3.0

LLI Sample # SW 6358393
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 12:15

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1010 SDG#: DE210-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	1.4	J	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	2.4		0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.7	J	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.9		0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.8		0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	2.3		0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	1.2	J	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	2.7		0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	1.6	J	0.70	1.7		1
10138	Pyrene	129-00-0	2.1		0.70	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		23.5
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	2.3	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-117-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA6-SB-2.0-3.0

LLI Sample # SW 6358393
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 12:15

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1010 SDG#: DE210-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.3		5
10199	EFH (C15-C20)	n.a.	2.1	U	2.1	6.3		5
10199	EFH (C21-C30)	n.a.	37		2.1	6.3		5
10199	EFH (C30 - C40)	n.a.	130		2.1	6.3		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.3		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	8,730		6.13	20.3		1
07914	Boron	7440-42-8	3.25	J	0.365	5.07		1
01650	Calcium	7440-70-2	6,560		2.53	20.3		1
01654	Iron	7439-89-6	16,700		2.65	20.3		1
01656	Lithium	7439-93-2	28.4		0.63	2.0		1
01657	Magnesium	7439-95-4	4,230		0.446	10.1		1
06958	Manganese	7439-96-5	231		0.0365	0.507		1
10145	Phosphorus	7723-14-0	309		0.355	10.1		1
01662	Potassium	7440-09-7	2,870		11.5	50.7		1
01667	Sodium	7440-23-5	162		6.03	101		1
07968	Strontium	7440-24-6	13.2		0.0253	0.507		1
06969	Tin	7440-31-5	2.92	J	0.324	10.1		1
06970	Titanium	7440-32-6	1,000		0.0720	1.01		1
10146	Zirconium	7440-67-7	2.50	J	0.466	5.07		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-117-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA6-SB-2.0-3.0

LLI Sample # SW 6358393
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 12:15

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1010 SDG#: DE210-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.158 J	0.0765	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.32	0.0827	0.413		2
06126	Barium	7440-39-3	69.7	0.110	0.413		2
06127	Beryllium	7440-41-7	0.342	0.0165	0.103		2
06128	Cadmium	7440-43-9	0.0626 J	0.0455	0.103		2
06131	Chromium	7440-47-3	11.3	0.124	0.413		2
06132	Cobalt	7440-48-4	4.37	0.0207	0.103		2
06133	Copper	7440-50-8	4.98	0.0827	0.413		2
06135	Lead	7439-92-1	3.37	0.0105	0.207		2
06138	Molybdenum	7439-98-7	0.310	0.0517	0.103		2
06139	Nickel	7440-02-0	6.82	0.103	0.413		2
06141	Selenium	7782-49-2	0.107 J	0.0599	0.413		2
06142	Silver	7440-22-4	0.0147 U	0.0147	0.103		2
06145	Thallium	7440-28-0	0.208	0.0310	0.103		2
06148	Vanadium	7440-62-2	26.5	0.0227	0.103		2
06149	Zinc	7440-66-6	55.2	0.579	3.10		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069 U	0.0069	0.0986		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84 U	0.84	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4 U	9.4	31.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21 U	0.21	1.0		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.95	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-117-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA6-SB-2.0-3.0

LLI Sample # SW 6358393
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 12:15

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1010 SDG#: DE210-10

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-117-SA6-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11220SLC026	08/18/2011 00:32	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11220SLB026	08/12/2011 17:11	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11220SLB026	08/09/2011 06:45	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11220SLC026	08/09/2011 06:45	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11215A34A	08/03/2011 20:26	Linda C Pape	23.5
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120925052	07/28/2011 14:22	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201120925052	07/28/2011 14:22	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112200013A	08/12/2011 01:51	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112200013A	08/08/2011 16:35	JoElla L Rice	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112110021A	08/01/2011 21:18	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112130001A	08/01/2011 13:10	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112200040A	08/11/2011 22:00	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112170029A	08/09/2011 23:03	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112170029A	08/06/2011 12:35	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112200040A	08/09/2011 08:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112110021A	08/01/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112130001A	08/01/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112145708004	08/04/2011 23:03	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708004	08/04/2011 23:03	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708004	08/04/2011 23:03	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112145708004	08/04/2011 23:03	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112145708004	08/04/2011 23:03	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708004	08/04/2011 23:03	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708004	08/04/2011 23:03	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112145708004	08/04/2011 23:03	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708004	08/04/2011 23:03	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112145708004	08/04/2011 23:03	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112145708004	08/04/2011 23:03	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708004	08/04/2011 23:03	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112145708004	08/04/2011 23:03	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112145708004	08/04/2011 23:03	John W Yanzuk II	1

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Sample Description: SL-117-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA6-SB-2.0-3.0

LLI Sample # SW 6358393
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 12:15

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1010 SDG#: DE210-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112141026001A	08/05/2011 05:19	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026001A	08/05/2011 05:19	David K Beck	2
06126	Barium	SW-846 6020	1	112141026001D	08/05/2011 05:19	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026001A	08/05/2011 05:19	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026001A	08/05/2011 05:19	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026001A	08/05/2011 05:19	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026001A	08/05/2011 05:19	David K Beck	2
06133	Copper	SW-846 6020	1	112141026001A	08/05/2011 05:19	David K Beck	2
06135	Lead	SW-846 6020	1	112141026001A	08/05/2011 05:19	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026001C	08/05/2011 05:19	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026001A	08/05/2011 05:19	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026001B	08/05/2011 05:19	David K Beck	2
06142	Silver	SW-846 6020	1	112141026001A	08/05/2011 05:19	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026001A	08/05/2011 05:19	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026001A	08/05/2011 05:19	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026001A	08/05/2011 05:19	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711002	08/03/2011 09:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708004	08/04/2011 07:59	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026001	08/04/2011 09:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711002	08/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621203A	08/05/2011 04:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11216284201A	08/06/2011 07:57	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11221243202A	08/11/2011 02:26	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621203A	08/04/2011 10:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11216284201A	08/04/2011 15:20	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11215039401B	08/03/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11221243202A	08/09/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402A	08/05/2011 19:10	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-179-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SB-4.0-5.0

LLI Sample # SW 6358394
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 14:31

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

1011- SDG#: DE210-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	172	U	172	345		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	17	350		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-179-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SB-4.0-5.0

LLI Sample # SW 6358394
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 14:31

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

1011- SDG#: DE210-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.6		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.6		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.6		5
10138	Benzo(a)anthracene	56-55-3	3.5	J	3.5	8.6		5
10138	Benzo(a)pyrene	50-32-8	3.5	U	3.5	8.6		5
10138	Benzo(b)fluoranthene	205-99-2	4.6	J	3.5	8.6		5
10138	Benzo(g,h,i)perylene	191-24-2	3.5	U	3.5	8.6		5
10138	Benzo(k)fluoranthene	207-08-9	3.5	U	3.5	8.6		5
10138	Chrysene	218-01-9	4.9	J	1.7	8.6		5
10138	Dibenz(a,h)anthracene	53-70-3	3.5	U	3.5	8.6		5
10138	Fluoranthene	206-44-0	5.3	J	3.5	8.6		5
10138	Fluorene	86-73-7	3.5	U	3.5	8.6		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.5	U	3.5	8.6		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.6		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.6		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.6		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.6		5
10138	Phenanthrene	85-01-8	3.5	U	3.5	8.6		5
10138	Pyrene	129-00-0	5.5	J	3.5	8.6		5
	Reporting limits were raised due to interference from the sample matrix.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		24.56
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	83	U	83	250	10000000	1

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Sample Description: SL-179-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SB-4.0-5.0

LLI Sample # SW 6358394
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 14:31

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

1011- SDG#: DE210-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	83	U	83	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	830	U	830	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	83	U	83	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	83	U	83	120	10000000	1
10132	PETN	78-11-5	830	U	830	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Nitroglycerin

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	620	U	620	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	2.6	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	1.6	J	0.40	1.8		1

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Sample Description: SL-179-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SB-4.0-5.0

LLI Sample # SW 6358394
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 14:31

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

1011- SDG#: DE210-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.2		5
10199	EFH (C15-C20)	n.a.	2.1	U	2.1	6.2		5
10199	EFH (C21-C30)	n.a.	58		2.1	6.2		5
10199	EFH (C30 - C40)	n.a.	160		2.1	6.2		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.2		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,500		5.98	19.8		1
07914	Boron	7440-42-8	5.58		0.356	4.94		1
01650	Calcium	7440-70-2	4,660		2.47	19.8		1
01654	Iron	7439-89-6	18,500		2.58	19.8		1
01656	Lithium	7439-93-2	20.2		0.61	2.0		1
01657	Magnesium	7439-95-4	4,340		0.435	9.88		1
06958	Manganese	7439-96-5	284		0.0356	0.494		1
10145	Phosphorus	7723-14-0	474		0.346	9.88		1
01662	Potassium	7440-09-7	2,890		11.2	49.4		1
01667	Sodium	7440-23-5	108		5.88	98.8		1
07968	Strontium	7440-24-6	23.9		0.0247	0.494		1
06969	Tin	7440-31-5	2.71	J	0.316	9.88		1
06970	Titanium	7440-32-6	1,070		0.0701	0.988		1
10146	Zirconium	7440-67-7	3.92	J	0.454	4.94		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.169	J	0.0753	0.203		2

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Sample Description: SL-179-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SB-4.0-5.0

LLI Sample # SW 6358394
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 14:31

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

1011- SDG#: DE210-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	15.6		0.0814	0.407		2
06126	Barium	7440-39-3	80.2		0.108	0.407		2
06127	Beryllium	7440-41-7	0.649		0.0163	0.102		2
06128	Cadmium	7440-43-9	0.200		0.0447	0.102		2
06131	Chromium	7440-47-3	15.5		0.122	0.407		2
06132	Cobalt	7440-48-4	5.17		0.0203	0.102		2
06133	Copper	7440-50-8	12.6		0.0814	0.407		2
06135	Lead	7439-92-1	6.21		0.0104	0.203		2
06138	Molybdenum	7439-98-7	1.81		0.0509	0.102		2
06139	Nickel	7440-02-0	11.2		0.102	0.407		2
06141	Selenium	7782-49-2	0.191	J	0.0590	0.407		2
06142	Silver	7440-22-4	0.0299	J	0.0144	0.102		2
06145	Thallium	7440-28-0	0.211		0.0305	0.102		2
06148	Vanadium	7440-62-2	40.0		0.0224	0.102		2
06149	Zinc	7440-66-6	72.7		0.570	3.05		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0594	J	0.0071	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.82	U	0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.30		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-179-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SB-4.0-5.0

LLI Sample # SW 6358394
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 14:31

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

1011- SDG#: DE210-11

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-179-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11214SLG026	08/10/2011 19:50	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11220SLC026	08/18/2011 00:57	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11220SLB026	08/12/2011 17:43	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11214SLG026	08/02/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11220SLB026	08/09/2011 06:45	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11220SLC026	08/09/2011 06:45	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11215A34A	08/03/2011 14:26	Linda C Pape	24.56
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120925052	07/28/2011 14:23	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201120925052	07/28/2011 14:24	Christopher D Meeks	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112180006A	08/11/2011 21:56	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112110005A	08/03/2011 22:01	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112200013A	08/12/2011 02:10	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112200013A	08/08/2011 16:35	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112110005A	08/02/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112180006A	08/07/2011 11:15	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112110021A	08/01/2011 21:33	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112130001A	08/01/2011 13:22	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112200040A	08/11/2011 21:15	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112170029A	08/09/2011 23:26	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112170029A	08/06/2011 12:35	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112200040A	08/09/2011 08:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112110021A	08/01/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112130001A	08/01/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112145708004	08/04/2011 23:06	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708004	08/04/2011 23:06	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708004	08/04/2011 23:06	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112145708004	08/04/2011 23:06	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112145708004	08/04/2011 23:06	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708004	08/04/2011 23:06	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708004	08/04/2011 23:06	John W Yanzuk II	1

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Sample Description: SL-179-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SB-4.0-5.0

LLI Sample # SW 6358394
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 14:31

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

1011- SDG#: DE210-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112145708004	08/04/2011 23:06	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708004	08/04/2011 23:06	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112145708004	08/04/2011 23:06	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112145708004	08/04/2011 23:06	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708004	08/04/2011 23:06	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112145708004	08/04/2011 23:06	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112145708004	08/04/2011 23:06	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112141026001A	08/05/2011 05:22	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026001A	08/05/2011 05:22	David K Beck	2
06126	Barium	SW-846 6020	1	112141026001D	08/05/2011 05:22	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026001A	08/05/2011 05:22	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026001A	08/05/2011 05:22	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026001A	08/05/2011 05:22	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026001A	08/05/2011 05:22	David K Beck	2
06133	Copper	SW-846 6020	1	112141026001A	08/05/2011 05:22	David K Beck	2
06135	Lead	SW-846 6020	1	112141026001A	08/05/2011 05:22	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026001C	08/05/2011 05:22	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026001A	08/05/2011 05:22	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026001B	08/05/2011 05:22	David K Beck	2
06142	Silver	SW-846 6020	1	112141026001A	08/05/2011 05:22	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026001A	08/05/2011 05:22	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026001A	08/05/2011 05:22	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026001A	08/05/2011 05:22	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711002	08/03/2011 09:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708004	08/04/2011 07:59	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026001	08/04/2011 09:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711002	08/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621203B	08/05/2011 05:13	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11216621203B	08/05/2011 05:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11216284201B	08/06/2011 08:20	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11221243202A	08/11/2011 02:40	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11221102202A	08/10/2011 19:54	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621203B	08/04/2011 10:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11216284201B	08/04/2011 15:20	Alex M Rittle	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11221102202A	08/09/2011 15:20	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11215039401B	08/03/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11221243202A	08/09/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401B	08/17/2011 21:17	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-179-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SB-9.0-10.0

LLI Sample # SW 6358395
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 14:49

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

1012- SDG#: DE210-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	189	U	189	379		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Sample Description: SL-179-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SB-9.0-10.0

LLI Sample # SW 6358395
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 14:49

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

1012- SDG#: DE210-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	3.0		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	4.1		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	3.1		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.4		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.8	J	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	3.1		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	4.0		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	2.1		0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	15	J	6.8	21		1
10138	Fluoranthene	206-44-0	4.5		0.76	1.9		1
10138	Fluorene	86-73-7	1.1	J	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.0		0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	3.0		0.76	1.9		1
10138	Pyrene	129-00-0	3.5		0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.16
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1

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Sample Description: SL-179-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SB-9.0-10.0

LLI Sample # SW 6358395
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 14:49

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Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
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1012- SDG#: DE210-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Nitroglycerin

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,400		6.70	22.1		1
07914	Boron	7440-42-8	9.34		0.399	5.54		1
01650	Calcium	7440-70-2	28,300		2.77	22.1		1
01654	Iron	7439-89-6	24,500		2.89	22.1		1
01656	Lithium	7439-93-2	27.1		0.69	2.2		1
01657	Magnesium	7439-95-4	5,590		0.487	11.1		1
06958	Manganese	7439-96-5	385		0.0399	0.554		1
10145	Phosphorus	7723-14-0	284		0.387	11.1		1
01662	Potassium	7440-09-7	3,120		12.5	55.4		1
01667	Sodium	7440-23-5	150		6.59	111		1
07968	Strontium	7440-24-6	33.7		0.0277	0.554		1
06969	Tin	7440-31-5	3.29	J	0.354	11.1		1
06970	Titanium	7440-32-6	1,230		0.0786	1.11		1
10146	Zirconium	7440-67-7	5.86		0.509	5.54		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0835	U	0.0835	0.226		2

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SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SB-9.0-10.0

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.77		0.0903	0.452		2
06126	Barium	7440-39-3	100		0.120	0.452		2
06127	Beryllium	7440-41-7	0.635		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.245		0.0497	0.113		2
06131	Chromium	7440-47-3	24.0		0.135	0.452		2
06132	Cobalt	7440-48-4	7.34		0.0226	0.113		2
06133	Copper	7440-50-8	11.0		0.0903	0.452		2
06135	Lead	7439-92-1	6.83		0.0115	0.226		2
06138	Molybdenum	7439-98-7	0.438		0.0564	0.113		2
06139	Nickel	7440-02-0	17.7		0.113	0.452		2
06141	Selenium	7782-49-2	0.0951	J	0.0655	0.452		2
06142	Silver	7440-22-4	0.0375	J	0.0160	0.113		2
06145	Thallium	7440-28-0	0.268		0.0339	0.113		2
06148	Vanadium	7440-62-2	47.9		0.0248	0.113		2
06149	Zinc	7440-66-6	53.1		0.632	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0085	J	0.0078	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.6		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.88		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-179-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SB-9.0-10.0

LLI Sample # SW 6358395
LLI Group # 1258702
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1012- SDG#: DE210-12

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-179-SA5DN-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11214SLG026	08/10/2011 20:10	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11220SLC026	08/18/2011 01:22	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11220SLB026	08/12/2011 18:16	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11214SLG026	08/02/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11220SLB026	08/09/2011 06:45	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11220SLC026	08/09/2011 06:45	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11215A34A	08/03/2011 21:02	Linda C Pape	22.16
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201120925052	07/28/2011 14:25	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201120925052	07/28/2011 14:26	Christopher D Meeks	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112180006A	08/11/2011 22:38	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112110005A	08/03/2011 22:20	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112200013A	08/12/2011 02:28	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112200013A	08/08/2011 16:35	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112110005A	08/02/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112180006A	08/07/2011 11:15	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112110021A	08/01/2011 21:48	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112130001A	08/01/2011 13:35	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112200040A	08/11/2011 13:49	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112170029A	08/09/2011 21:03	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112170029A	08/06/2011 12:35	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112200040A	08/09/2011 08:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112110021A	08/01/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112130001A	08/01/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112145708004	08/04/2011 23:10	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708004	08/04/2011 23:10	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708004	08/04/2011 23:10	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112145708004	08/04/2011 23:10	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112145708004	08/04/2011 23:10	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708004	08/04/2011 23:10	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708004	08/04/2011 23:10	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-179-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SB-9.0-10.0

LLI Sample # SW 6358395
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 14:49

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

1012- SDG#: DE210-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112145708004	08/04/2011 23:10	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708004	08/04/2011 23:10	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112145708004	08/04/2011 23:10	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112145708004	08/04/2011 23:10	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708004	08/04/2011 23:10	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112145708004	08/04/2011 23:10	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112145708004	08/04/2011 23:10	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112141026001A	08/05/2011 05:25	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026001A	08/05/2011 05:25	David K Beck	2
06126	Barium	SW-846 6020	1	112141026001D	08/05/2011 05:25	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026001A	08/05/2011 05:25	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026001A	08/05/2011 05:25	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026001A	08/05/2011 05:25	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026001A	08/05/2011 05:25	David K Beck	2
06133	Copper	SW-846 6020	1	112141026001A	08/05/2011 05:25	David K Beck	2
06135	Lead	SW-846 6020	1	112141026001A	08/05/2011 05:25	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026001C	08/05/2011 05:25	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026001A	08/05/2011 05:25	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026001B	08/05/2011 05:25	David K Beck	2
06142	Silver	SW-846 6020	1	112141026001A	08/05/2011 05:25	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026001A	08/05/2011 05:25	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026001A	08/05/2011 05:25	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026001A	08/05/2011 05:25	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711002	08/03/2011 09:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708004	08/04/2011 07:59	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026001	08/04/2011 09:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711002	08/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11216621203B	08/05/2011 06:24	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11216621203B	08/05/2011 06:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11216284201B	08/06/2011 09:52	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11221243202A	08/11/2011 02:55	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11221102202A	08/10/2011 19:55	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11216621203B	08/04/2011 10:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11216284201B	08/04/2011 15:20	Alex M Rittle	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11221102202A	08/09/2011 15:20	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11215039401B	08/03/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11221243202A	08/09/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401B	08/17/2011 21:17	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-072711 Water
SSFL Area IV Collocated Soil Sampling
TB-072711

LLI Sample # WW 6358396
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:00

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

1013- SDG#: DE210-13TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11215A20A	08/03/2011 14:41	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	11215A20A	08/03/2011 14:41	Linda C Pape	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: EB-SA6-SB-072711 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-072711

LLI Sample # WW 6358397
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 13:00

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1014 SDG#: DE210-14EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB-SA6-SB-072711 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-072711

LLI Sample # WW 6358397
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 13:00

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1014 SDG#: DE210-14EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	2.30		0.482	0.964		1

The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	21	U	21	62		1
04678	Benzoic acid	65-85-0	6	U	6	16		1
04678	Benzyl alcohol	100-51-6	5	U	5	16		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1

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Sample Description: EB-SA6-SB-072711 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-072711

LLI Sample # WW 6358397
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 13:00

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1014 SDG#: DE210-14EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	31		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	31		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	16		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	Tetralin	119-64-2	5	U	5	5		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.053		1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.053		1
10137	Anthracene	120-12-7	0.011	U	0.011	0.053		1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.053		1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.053		1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.053		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB-SA6-SB-072711 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-072711

LLI Sample # WW 6358397
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 13:00

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1014 SDG#: DE210-14EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.053		1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.053		1
10137	Butylbenzylphthalate	85-68-7	0.053	U	0.053	1.1		1
10137	Di-n-butylphthalate	84-74-2	0.50	J	0.053	1.1		1
10137	Chrysene	218-01-9	0.011	U	0.011	0.053		1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.053		1
10137	Diethylphthalate	84-66-2	0.080	J	0.053	1.1		1
10137	Dimethylphthalate	131-11-3	0.053	U	0.053	1.1		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.062	J	0.053	1.1		1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.053		1
10137	Fluorene	86-73-7	0.011	U	0.011	0.053		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.053		1
10137	1-Methylnaphthalene	90-12-0	0.011	U	0.011	0.053		1
10137	2-Methylnaphthalene	91-57-6	0.011	U	0.011	0.053		1
10137	Naphthalene	91-20-3	0.087		0.032	0.053		1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.053		1
10137	Di-n-octylphthalate	117-84-0	0.053	U	0.053	1.1		1
10137	Phenanthrene	85-01-8	0.032	U	0.032	0.053		1
10137	Pyrene	129-00-0	0.011	U	0.011	0.053		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
dimethylphthalate

GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1

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Sample Description: EB-SA6-SB-072711 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-072711

LLI Sample # WW 6358397
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 13:00

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1014 SDG#: DE210-14EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	2.0		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	20b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.50		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.50		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.50		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.50		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.50		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.50		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.50		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.50		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.50		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.50		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.50		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.50		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	20	U	20	200		1
08278	Ethylene glycol	107-21-1	20	U	20	200		1
08278	Propylene glycol	57-55-6	20	U	20	200		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	

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Sample Description: EB-SA6-SB-072711 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-072711

LLI Sample # WW 6358397
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 13:00

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1014 SDG#: DE210-14EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.081	U	0.081	0.25		1
10319	o-Terphenyl	84-15-1	0.081	U	0.081	0.25		1
10319	p-Terphenyl	92-94-4	0.081	U	0.081	0.25		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.098	U	0.098	0.59		1
10365	EFH (C15-C20)	n.a.	0.098	U	0.098	0.59		1
10365	EFH (C21-C30)	n.a.	0.098	U	0.098	0.59		1
10365	EFH (C30 - C40)	n.a.	0.098	U	0.098	0.59		1
10365	EFH (C8-C11)	n.a.	0.098	U	0.098	0.59		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0801	U	0.0801	0.200		1
08014	Boron	7440-42-8	0.0035	J	0.0022	0.0500		1
01750	Calcium	7440-70-2	0.0705	U	0.0705	0.200		1
01754	Iron	7439-89-6	0.0141	U	0.0141	0.200		1
01756	Lithium	7439-93-2	0.0076	U	0.0076	0.0200		1
01757	Magnesium	7439-95-4	0.0067	U	0.0067	0.100		1
07058	Manganese	7439-96-5	0.00044	U	0.00044	0.0050		1
10143	Phosphorus	7723-14-0	0.0047	U	0.0047	0.100		1
01762	Potassium	7440-09-7	0.0874	U	0.0874	0.500		1
01767	Sodium	7440-23-5	0.295	J	0.0647	1.00		1
08068	Strontium	7440-24-6	0.00026	J	0.00022	0.0050		1
07069	Tin	7440-31-5	0.0043	U	0.0043	0.0200		1
07070	Titanium	7440-32-6	0.00046	U	0.00046	0.0100		1
10144	Zirconium	7440-67-7	0.0049	J	0.0042	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00042	U	0.00042	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00069	U	0.00069	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000080	U	0.000080	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00027	U	0.00027	0.0020		1
06042	Silver	7440-22-4	0.000098	U	0.000098	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00018	U	0.00018	0.00050		1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**		**mg/l**	**mg/l**	**mg/l**	

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Sample Description: EB-SA6-SB-072711 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-072711

LLI Sample # WW 6358397
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 13:00

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1014 SDG#: DE210-14EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7470A**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000029 J	0.000026	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	The initial calibration verification (ICV) standard was overlooked following instrument calibration and prior to sample analysis. The laboratory control standard (LCS) and LCS-Duplicate both yielded recoveries of 104% and the next calibration check verification (CCV) had a recovery of 100%. The analysis was repeated past the 24-hour hold time on 8/01/2011 and confirms the initial within-hold time result of 5.0 U ug/l.						
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	16b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	17b pH by 9040B	n.a.	6.2	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260B	SW-846 8260B	1	Y112101AA	07/29/2011 15:10	Chelsea B Eastep	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112141AA	08/02/2011 11:09	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y112101AA	07/29/2011 15:10	Chelsea B Eastep	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E112141AA	08/02/2011 11:09	Jason M Long	1
10962	21b NDMA by 1625C	EPA 1625C	1	11211WAE026	08/12/2011 15:45	Matthew S Woods	1
04678	5b SVOCs with Tetralin 8270C	SW-846 8270C	1	11210WAB026	08/18/2011 07:40	Florida A Cimino	1

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Sample Description: **EB-SA6-SB-072711 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-072711

LLI Sample # WW 6358397
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 13:00

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1014 SDG#: DE210-14EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11210WAA026	08/15/2011 23:26	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11210WAB026	07/30/2011 07:30	Catherine R Wiker	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11210WAA026	07/29/2011 17:30	JoElla L Rice	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11211WAE026	08/01/2011 03:00	David V Hershey Jr	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11215A20A	08/03/2011 16:30	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	11215A20A	08/03/2011 16:30	Linda C Pape	1
10131	15b Energetics by 8330A	SW-846 8330A	1	112100016A	08/05/2011 00:21	James H Place	1
04144	20b Formaldehyde 8315A	SW-846 8315A	1	112100001A	07/30/2011 06:21	James H Place	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	112100007A	08/03/2011 15:51	Sarah M Snyder	1
11117	PCB Waters Extraction	SW-846 3510C	1	112100007A	07/29/2011 17:30	JoElla L Rice	1
01013	Formaldehyde Extraction	SW-846 8315A	1	112100001A	07/29/2011 16:00	Kelli M Barto	1
11122	Energetics Extraction	SW-846 8330	1	112100016A	07/30/2011 08:45	Kelli M Barto	1
06624	18b Alcohols by 8015B	SW-846 8015B	1	112110023A	07/30/2011 22:55	Elizabeth J Marin	1
08278	19b Glycols by 8015B	SW-846 8015B modified	1	112130018A	08/02/2011 09:25	Dustin A Underkoffler	1
10319	22b Terphenyls by 8015B	SW-846 8015B	1	112090027A	07/30/2011 10:16	Tracy A Cole	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112130016A	08/04/2011 01:55	Tracy A Cole	1
11203	EFH Waters Extraction	SW-846 3510C	1	112130016A	08/01/2011 18:15	Kathryn I DeHaven	1
10304	Terphenyls water prep	SW-846 3510C	1	112090027A	07/28/2011 18:00	Kathryn I DeHaven	1
01743	Aluminum	SW-846 6010B	1	112151848004	08/05/2011 05:40	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	112151848004	08/05/2011 05:40	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	112151848004	08/05/2011 05:40	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	112151848004	08/05/2011 05:40	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	112151848004	08/05/2011 05:40	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	112151848004	08/05/2011 05:40	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	112151848004	08/05/2011 05:40	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	112151848004	08/05/2011 05:40	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	112151848004	08/05/2011 05:40	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	112151848004	08/05/2011 05:40	Tara L Snyder	1
08068	Strontium	SW-846 6010B	1	112151848004	08/05/2011 05:40	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	112151848004	08/05/2011 05:40	Tara L Snyder	1
07070	Titanium	SW-846 6010B	1	112151848004	08/05/2011 05:40	Tara L Snyder	1
10144	Zirconium	SW-846 6010B	1	112151848004	08/05/2011 05:40	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	112156050002A	08/05/2011 06:58	David K Beck	1
06025	Arsenic	SW-846 6020	1	112156050002A	08/05/2011 06:58	David K Beck	1
06026	Barium	SW-846 6020	1	112156050002D	08/05/2011 06:58	David K Beck	1
06027	Beryllium	SW-846 6020	1	112156050002A	08/05/2011 06:58	David K Beck	1
06028	Cadmium	SW-846 6020	1	112156050002A	08/05/2011 06:58	David K Beck	1
06031	Chromium	SW-846 6020	1	112156050002A	08/05/2011 06:58	David K Beck	1
06032	Cobalt	SW-846 6020	1	112156050002A	08/05/2011 06:58	David K Beck	1
06033	Copper	SW-846 6020	1	112156050002A	08/05/2011 06:58	David K Beck	1
06035	Lead	SW-846 6020	1	112156050002A	08/05/2011 06:58	David K Beck	1
06038	Molybdenum	SW-846 6020	1	112156050002C	08/05/2011 06:58	David K Beck	1
06039	Nickel	SW-846 6020	1	112156050002A	08/05/2011 06:58	David K Beck	1
06041	Selenium	SW-846 6020	1	112156050002B	08/05/2011 06:58	David K Beck	1
06042	Silver	SW-846 6020	1	112156050002A	08/05/2011 06:58	David K Beck	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB-SA6-SB-072711 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-072711

LLI Sample # WW 6358397
LLI Group # 1258702
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 13:00

Submitted: 07/28/2011 09:25
Reported: 09/02/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1014 SDG#: DE210-14EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06045	Thallium	SW-846 6020	1	112156050002A	08/05/2011 06:58	David K Beck	1
06048	Vanadium	SW-846 6020	1	112156050002A	08/05/2011 06:58	David K Beck	1
06049	Zinc	SW-846 6020	1	112156050002A	08/05/2011 06:58	David K Beck	1
00259	Mercury	SW-846 7470A	1	112105713003	08/01/2011 08:24	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	112151848004	08/04/2011 09:48	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	112156050002	08/04/2011 09:45	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	112105713003	07/29/2011 11:15	Damary Valentin	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11209621603B	07/29/2011 07:20	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11209621603B	07/29/2011 07:20	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11209281101B	07/28/2011 16:48	Elyse P Brunstetter	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11209281401A	07/28/2011 10:44	Elyse P Brunstetter	1
08255	16b Cyanide by 9012B	SW-846 9012B	1	11220117101B	08/08/2011 15:18	Venia B McFadden	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11220117101B	08/08/2011 09:20	Nancy J Shoop	1
00200	17b pH by 9040B	SW-846 9040B	1	11209020002A	07/28/2011 16:45	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258702
Reported: 09/02/11 at 12:16 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: E112141AA	Sample number(s): 6358397									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	108	107	80-123	0	30
Batch number: Y112101AA	Sample number(s): 6358397									
Acetone	6	U	6.	20	ug/l	126	126	49-234	0	30
Benzene	0.5	U	0.5	5	ug/l	110	108	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	104	105	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	111	110	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	102	100	80-120	3	30
Bromoform	1	U	1.	5	ug/l	92	92	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	96	91	44-120	5	30
2-Butanone	3	U	3.	10	ug/l	114	115	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	112	111	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	116	114	78-120	2	30
tert-Butylbenzene	1	U	1.	5	ug/l	109	107	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	103	98	75-123	5	30
Chlorobenzene	0.8	U	0.8	5	ug/l	105	104	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	93	91	49-129	2	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	95	97	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	107	103	77-122	3	30
Chloromethane	1	U	1.	5	ug/l	111	110	60-129	1	30
2-Chlorotoluene	1	U	1.	5	ug/l	109	109	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	109	110	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	83	78	38-136	7	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	100	100	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	98	96	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	104	103	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	101	100	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	107	107	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	106	105	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	105	105	80-120	0	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	98	92	47-120	5	30
1,1-Dichloroethane	1	U	1.	5	ug/l	107	105	79-120	2	30
1,2-Dichloroethane	1	U	1.	5	ug/l	104	103	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	105	103	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	108	106	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	106	104	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	106	107	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	106	107	80-120	2	30
2,2-Dichloropropane	1	U	1.	5	ug/l	103	100	77-124	3	30
1,1-Dichloropropene	1	U	1.	5	ug/l	108	103	80-120	4	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	102	102	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	100	100	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	110	107	79-120	2	30
Freon 113	2	U	2.	10	ug/l	105	99	69-128	6	30
Freon 133a	2	U	2.	5	ug/l	79	75*	77-120	5	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258702
Reported: 09/02/11 at 12:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachlorobutadiene	2	U	2.	5	ug/l	96	98	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	110	111	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	112	110	77-120	2	30
p-Isopropyltoluene	1	U	1.	5	ug/l	112	111	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	102	102	76-120	0	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	102	102	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	106	104	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	115	113	80-120	2	30
Styrene	1	U	1.	5	ug/l	109	107	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	104	101	80-120	3	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	106	108	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	103	99	80-121	4	30
Toluene	0.7	U	0.7	5	ug/l	109	107	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	104	104	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	98	98	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	103	99	75-127	4	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	105	104	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	107	103	80-120	4	30
Trichlorofluoromethane	2	U	2.	5	ug/l	100	94	64-129	6	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	102	104	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	113	110	74-120	2	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	115	113	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	103	100	65-125	3	30
m+p-Xylene	0.8	U	0.8	5	ug/l	111	108	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	111	108	80-120	2	30
Batch number: 11210WAA026	Sample number(s): 6358397									
Acenaphthene	0.010	U	0.010	0.050	ug/l	116*	107	74-109	9	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	109	100	70-110	8	30
Anthracene	0.010	U	0.010	0.050	ug/l	110	102	66-111	8	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	111	105	72-114	5	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	97	91	60-127	7	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	113	101	58-151	12	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	88	82	57-131	7	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	102	99	59-130	4	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	52	55	40-138	6	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	98	97	56-148	1	30
Chrysene	0.010	U	0.010	0.050	ug/l	110	103	76-116	6	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	92	85	55-134	8	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	61	59	37-148	3	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	26*	30*	40-119	15	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	114	113	57-154	1	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	111	102	75-116	8	30
Fluorene	0.010	U	0.010	0.050	ug/l	116*	107	75-114	8	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	89	83	53-158	7	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	102	96	71-117	6	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	98	93	75-115	5	30
Naphthalene	0.030	U	0.030	0.050	ug/l	102	97	72-109	5	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	61	59	36-89	3	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	95	93	57-145	3	30
Phenanthrene	0.030	U	0.030	0.050	ug/l	106	99	76-111	7	30
Pyrene	0.010	U	0.010	0.050	ug/l	118	111	69-118	6	30
Batch number: 11210WAB026	Sample number(s): 6358397									
Aniline	1	U	1.	5	ug/l	79	77	38-116	4	30
Benzidine	20	U	20.	60	ug/l	71	63	34-117	12	30
Benzoic acid	6	U	6.	15	ug/l	31	44	10-69	33*	30
Benzyl alcohol	5	U	5.	15	ug/l	81	88	66-97	8	30

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258702
Reported: 09/02/11 at 12:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	107	120*	75-115	12	30
Carbazole	1	U	1.	5	ug/l	106	105	75-120	1	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	97	101	70-123	4	30
4-Chloroaniline	1	U	1.	5	ug/l	67	64	24-128	5	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	97	104	74-124	7	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	104	98	77-108	6	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	98	101	62-127	4	30
2-Chloronaphthalene	2	U	2.	5	ug/l	99	92	54-132	7	30
2-Chlorophenol	1	U	1.	5	ug/l	105	102	71-114	4	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	99	95	77-114	4	30
Dibenzofuran	1	U	1.	5	ug/l	98	94	75-117	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	87	102	55-118	16	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	92	93	61-111	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	89	98	53-119	10	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	72	69	37-117	3	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	94	101	77-117	7	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	87	96	72-110	10	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	97	102	70-130	5	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	107	101	65-126	7	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	104	91	52-131	14	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	111	99	76-119	11	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	109	106	76-118	2	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	111	119	68-127	7	30
Hexachlorobenzene	1	U	1.	5	ug/l	110	106	75-119	4	30
Hexachlorobutadiene	1	U	1.	5	ug/l	87	97	57-124	11	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	78	76	36-118	2	30
Hexachloroethane	1	U	1.	5	ug/l	89	101	52-113	12	30
Isophorone	1	U	1.	5	ug/l	98	101	74-117	3	30
2-Methylphenol	1	U	1.	5	ug/l	104	96	58-110	8	30
4-Methylphenol	2	U	2.	5	ug/l	93	87	49-108	7	30
2-Nitroaniline	1	U	1.	5	ug/l	105	93	75-120	12	30
3-Nitroaniline	1	U	1.	5	ug/l	103	91	74-113	12	30
4-Nitroaniline	1	U	1.	5	ug/l	86	78	59-100	9	30
Nitrobenzene	1	U	1.	5	ug/l	97	104	75-109	7	30
2-Nitrophenol	1	U	1.	5	ug/l	100	96	76-118	4	30
4-Nitrophenol	10	U	10.	30	ug/l	49	46	16-78	7	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	99	98	69-110	2	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	96	108	67-136	12	30
Pentachlorophenol	3	U	3.	15	ug/l	94	105	53-110	11	30
Phenol	1	U	1.	5	ug/l	58	55	21-67	4	30
Tetralin	5	U	5.	5	ug/l	83	106	70-130	24	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	89	97	71-112	8	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	113*	100	79-107	13	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	113	98	76-120	15	30
Batch number: 11211WAE026	Sample number(s): 6358397									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	102	92	70-130	11	30
Batch number: 11214SLG026	Sample number(s): 6358394-6358395									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	100		70-130		
Batch number: 11220SLB026	Sample number(s): 6358381-6358383,6358385-6358395									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	100		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	93		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	94		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	101		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	83		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	95		63-143		

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258702
Reported: 09/02/11 at 12:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	83		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	91		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	113		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	113		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	103		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	85		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	81		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	104		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	108		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	102		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	98		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	83		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	85		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	88		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	90		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	87		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	102		72-119		
Batch number: 11220SLC026	Sample number(s): 6358381-6358383,6358385-6358395									
Acenaphthene	17	U	17.	170	ug/kg	97		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	104		75-122		
Aniline	170 U		170.	500	ug/kg	76		20-115		
Anthracene	17	U	17.	170	ug/kg	106		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	30		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	92		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	99		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	99		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	93		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	108		67-125		
Benzoic acid	170 U		170.	500	ug/kg	94		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	91		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	104		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	106		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	107		79-112		
Carbazole	17	U	17.	170	ug/kg	105		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	102		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	43		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	93		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	100		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	101		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	103		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	102		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		74-115		
Chrysene	17	U	17.	170	ug/kg	93		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	96		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	97		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	92		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	84		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	66		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258702
Reported: 09/02/11 at 12:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Diethylphthalate	17	U	17.	170	ug/kg	109		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	99		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	104		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	103		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	91		46-120		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	79		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	104		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	105		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	111		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	104		75-117		
Fluoranthene	17	U	17.	170	ug/kg	104		78-116		
Fluorene	17	U	17.	170	ug/kg	98		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	97		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	84		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	79		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	88		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	99		64-119		
Isophorone	17	U	17.	170	ug/kg	96		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	95		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	94		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	103		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	106		66-117		
Naphthalene	17	U	17.	170	ug/kg	87		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	108		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	100		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	80		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	100		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	96		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	98		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	96		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	103		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	106		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	123		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	89		51-117		
Phenanthrene	17	U	17.	170	ug/kg	102		77-113		
Phenol	17	U	17.	170	ug/kg	102		58-112		
Pyrene	17	U	17.	170	ug/kg	100		75-115		
Tetralin	170	U	170.	170	ug/kg	80		70-130		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	86		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	98		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	101		78-111		
Batch number: 11215A20A	Sample number(s): 6358396-6358397									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	118	118	75-135	0	30
Batch number: 11215A34A	Sample number(s): 6358388-6358395									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	78		67-119		
Batch number: 112100016A	Sample number(s): 6358397									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	110	110	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	107	120	50-122	12	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258702
Reported: 09/02/11 at 12:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	107	120	50-122	12	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	110	110	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	99	99	80-120	0	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	110	110	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	100	100	65-125	0	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	100	98	75-121	2	30
Nitroglycerin	5.2	U	5.2	15	ug/l	113	108	80-120	4	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	74-120	0	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	110*	110*	69-107	0	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	100	100	80-120	0	30
PETN	6.0	U	6.0	18	ug/l	133*	133*	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	94	93	70-125	1	30
Tetryl	0.40	U	0.40	0.60	ug/l	92	86	72-141	7	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	93	88	53-129	6	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	110*	100	76-109	10	30
Batch number: 112180006A	Sample number(s): 6358394-6358395									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	106		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	88	90	54-134	2	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	88	90	54-134	2	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	109		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	100		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	103		80-120		
HMX	100 U		100.	300	ug/kg	89		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	101		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	79*		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	102		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	109		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	101		80-120		
PETN	800 U		800.	2,400	ug/kg	86		80-120		
RDX	50	U	50.	120	ug/kg	91		75-131		
Tetryl	61	U	61.	120	ug/kg	88		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	103		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	110		80-120		
Batch number: 112100001A	Sample number(s): 6358397									
20b Formaldehyde 8315A	10	U	10.	50	ug/l	100	96	69-130	4	30
Batch number: 112110005A	Sample number(s): 6358394-6358395									
20a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	107		80-126		
Batch number: 112200018A	Sample number(s): 6358381-6358383,6358385-6358387									
2,4-D	1.2	U	1.2	3.6	ug/kg	82		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	57		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	75		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	80		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	16		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	99		62-170		
MCPA	76	U	76.	250	ug/kg	85		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	71		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	77		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	71		68-114		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258702
Reported: 09/02/11 at 12:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112200028A	Sample number(s): 6358388									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	108		85-115		
Batch number: 112100007A	Sample number(s): 6358397									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	84	76	35-84	10	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	110	96	51-128	14	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	118	102	56-135	15	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 112200012A	Sample number(s): 6358381-6358383,6358385-6358387									
Aldrin	0.066	U	0.066	0.17	ug/kg	79		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	71		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	88		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	79		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	87		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	88		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	96		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	84		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	84		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	82		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	97		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	97		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	87		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	85		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	92		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	88		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	88		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	105		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112200013A	Sample number(s): 6358381-6358383,6358385-6358395									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	80	77	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	93		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	92		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112110021A	Sample number(s): 6358385,6358388-6358395									
Ethanol	100 U		100.	500	ug/kg	100		71-129		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258702
Reported: 09/02/11 at 12:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isopropanol	100 U		100.	500	ug/kg	96		75-125		
Methanol	100 U		100.	500	ug/kg	91		68-129		
Batch number: 112110023A	Sample number(s): 6358397									
Ethanol	200 U		200.	1,000	ug/l	104		66-132		
Isopropanol	200 U		200.	1,000	ug/l	100		75-125		
Methanol	200 U		200.	1,000	ug/l	100		71-140		
Batch number: 112130001A	Sample number(s): 6358385,6358388-6358395									
Diethylene glycol	5.0	U	5.0	10	mg/kg	97		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	93		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	87		75-125		
Batch number: 112130018A	Sample number(s): 6358397									
Diethylene glycol	20	U	20.	200	mg/l	105	110	78-126	5	20
Ethylene glycol	20	U	20.	200	mg/l	95	89	80-124	6	20
Propylene glycol	20	U	20.	200	mg/l	95	90	80-120	5	20
Batch number: 112090027A	Sample number(s): 6358397									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	76	85	75-125	11	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	94	100	75-125	6	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	87	95	75-125	9	20
Batch number: 112130016A	Sample number(s): 6358397									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	88	86	69-125	2	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	88	87	77-125	2	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	85	85	68-124	0	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	87	80	80-121	8	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	80	74	46-103	8	30
Batch number: 112170029A	Sample number(s): 6358385,6358388-6358395									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	94		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	98		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	98		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	96		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	86		54-107		
Batch number: 112200040A	Sample number(s): 6358385,6358388-6358395									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	75		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	93		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	79		75-125		
Batch number: 112105713003	Sample number(s): 6358397									
Mercury	0.00011	J	0.00002 6	0.00020	mg/l	105	105	80-120	0	20
Batch number: 112141026001A	Sample number(s): 6358381-6358395									
Antimony	0.0733	U	0.0733	0.198	mg/kg	62		10-224		
Arsenic	0.0792	U	0.0792	0.396	mg/kg	93		78-122		
Beryllium	0.0158	U	0.0158	0.0990	mg/kg	94		80-120		
Cadmium	0.0436	U	0.0436	0.0990	mg/kg	97		81-119		
Chromium	0.119	U	0.119	0.396	mg/kg	95		77-123		
Cobalt	0.0198	U	0.0198	0.0990	mg/kg	95		80-119		

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Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Copper	0.0792 U	0.0792	0.396	mg/kg	95		78-122		
Lead	0.0101 U	0.0101	0.198	mg/kg	91		77-123		
Nickel	0.0990 U	0.0990	0.396	mg/kg	99		80-120		
Silver	0.0141 U	0.0141	0.0990	mg/kg	97		66-134		
Thallium	0.0297 U	0.0297	0.0990	mg/kg	92		75-124		
Vanadium	0.0358 J	0.0218	0.0990	mg/kg	105		76-124		
Zinc	0.554 U	0.554	2.97	mg/kg	99		79-121		
Batch number: 112141026001B	Sample number(s): 6358381-6358395								
Selenium	0.0574 U	0.0574	0.396	mg/kg	102		77-123		
Batch number: 112141026001C	Sample number(s): 6358381-6358395								
Molybdenum	0.0495 U	0.0495	0.0990	mg/kg	96		76-123		
Batch number: 112141026001D	Sample number(s): 6358381-6358395								
Barium	0.105 U	0.105	0.396	mg/kg	95		80-120		
Batch number: 112145708004	Sample number(s): 6358381-6358395								
Aluminum	8.06 J	5.93	19.6	mg/kg	134		42-158		
Boron	0.427 J	0.353	4.90	mg/kg	102		66-134		
Calcium	6.22 J	2.45	19.6	mg/kg	101		79-121		
Iron	2.83 J	2.56	19.6	mg/kg	114		51-149		
Lithium	0.61 U	0.61	2.0	mg/kg	99		80-120		
Magnesium	0.431 U	0.431	9.80	mg/kg	114		64-136		
Manganese	0.0451 J	0.0353	0.490	mg/kg	90		78-122		
Phosphorus	1.22 J	0.343	9.80	mg/kg	102		80-120		
Potassium	11.1 U	11.1	49.0	mg/kg	110		69-131		
Sodium	5.83 U	5.83	98.0	mg/kg	106		71-129		
Strontium	0.0333 J	0.0245	0.490	mg/kg	96		81-119		
Tin	1.70 J	0.314	9.80	mg/kg	91		74-126		
Titanium	0.0696 U	0.0696	0.980	mg/kg	161		40-186		
Zirconium	0.451 U	0.451	4.90	mg/kg	100		80-120		
Batch number: 112145711002	Sample number(s): 6358381-6358390,6358392-6358395								
Mercury	0.0069 U	0.0069	0.0977	mg/kg	104		72-128		
Batch number: 112151848004	Sample number(s): 6358397								
Aluminum	0.0801 U	0.0801	0.200	mg/l	100	100	90-112	0	20
Boron	0.0024 J	0.0022	0.0500	mg/l	97	97	89-110	0	20
Calcium	0.0705 U	0.0705	0.200	mg/l	100	100	90-112	1	20
Iron	0.0141 U	0.0141	0.200	mg/l	101	101	90-112	0	20
Lithium	0.0076 U	0.0076	0.0200	mg/l	99	98	80-120	1	20
Magnesium	0.0067 U	0.0067	0.100	mg/l	100	100	89-110	1	20
Manganese	0.00044 U	0.00044	0.0050	mg/l	103	103	90-110	0	20
Phosphorus	0.0047 U	0.0047	0.100	mg/l	102	101	80-120	1	20
Potassium	0.0874 U	0.0874	0.500	mg/l	98	98	85-115	0	20
Sodium	0.0647 U	0.0647	1.00	mg/l	95	94	87-114	1	20
Strontium	0.00022 U	0.00022	0.0050	mg/l	102	101	90-110	1	20
Tin	0.0043 U	0.0043	0.0200	mg/l	98	98	90-110	1	20
Titanium	0.00046 U	0.00046	0.0100	mg/l	100	100	90-113	0	20
Zirconium	0.0069 J	0.0042	0.0500	mg/l	100	100	80-120	0	20
Batch number: 112155711002	Sample number(s): 6358391								
Mercury	0.0070 U	0.0070	0.100	mg/kg	95		72-128		
Batch number: 112156050002A	Sample number(s): 6358397								
Antimony	0.00042 U	0.00042	0.0010	mg/l	100	108	87-110	7	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	107	104	86-111	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258702
Reported: 09/02/11 at 12:16 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Beryllium	0.00013 U	0.00013	0.00050	mg/l	103	106	90-113	3	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	106	104	90-114	2	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	95	96	90-118	1	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	101	100	87-113	1	20
Copper	0.00038 U	0.00038	0.0020	mg/l	103	100	90-113	2	20
Lead	0.000080 U	0.00008 0	0.0010	mg/l	106	107	90-115	2	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	108	105	90-113	3	20
Silver	0.000098 U	0.00009 8	0.00050	mg/l	106	104	90-115	2	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	102	105	89-116	2	20
Vanadium	0.00018 U	0.00018	0.00050	mg/l	103	103	89-116	0	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	104	104	90-116	1	20
Batch number: 112156050002B	Sample number(s): 6358397								
Selenium	0.00027 U	0.00027	0.0020	mg/l	99	98	85-114	1	20
Batch number: 112156050002C	Sample number(s): 6358397								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	104	103	89-115	1	20
Batch number: 112156050002D	Sample number(s): 6358397								
Barium	0.00069 U	0.00069	0.0020	mg/l	103	106	88-113	3	20
Batch number: 11209281101B	Sample number(s): 6358397								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	98	95	85-115	3	20
Batch number: 11209281401A	Sample number(s): 6358397								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	104	104	90-110	0	20
Batch number: 11209621603B	Sample number(s): 6358397								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	100	101	90-110	1	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	101	101	90-110	1	20
Batch number: 11216284201A	Sample number(s): 6358381-6358382,6358384-6358393								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	102		85-115		
Batch number: 11216284201B	Sample number(s): 6358394-6358395								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	102		85-115		
Batch number: 11216621203A	Sample number(s): 6358381-6358382,6358384-6358393								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	108		90-110		
Batch number: 11216621203B	Sample number(s): 6358394-6358395								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	108		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	100		90-110		
Batch number: 11220117101B	Sample number(s): 6358397								
16b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	95	96	90-110	1	20
Batch number: 11221102202A	Sample number(s): 6358394-6358395								
16a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	105		80-120		
Batch number: 11221243202A	Sample number(s): 6358381-6358382,6358384-6358395								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	98		80-120		
Batch number: 11209020002A	Sample number(s): 6358397								
17b pH by 9040B					100	100	90-110	0	3

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258702
Reported: 09/02/11 at 12:16 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11215039401A	Sample number(s): 6358381,6358384-6358392								
17a pH by 9045C					100		95-105		
Batch number: 11215039401B	Sample number(s): 6358393-6358395								
17a pH by 9045C					100		95-105		
Batch number: 11217162402A	Sample number(s): 6358381-6358393								
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Batch number: 11229162401B	Sample number(s): 6358394-6358395								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11214SLG026	Sample number(s): 6358394-6358395 UNSPK: P356760								
N-Nitrosodimethylamine	102	85	70-130	16	30				
Batch number: 11220SLB026	Sample number(s): 6358381-6358383,6358385-6358395 UNSPK: 6358381								
Acenaphthene	93	96	63-105	4	30				
Acenaphthylene	95	98	67-114	3	30				
Anthracene	105	108	73-115	3	30				
Benzo(a)anthracene	119	113	59-128	5	30				
Benzo(a)pyrene	104	99	58-142	5	30				
Benzo(b)fluoranthene	110	108	54-163	1	30				
Benzo(g,h,i)perylene	49	46	33-141	5	30				
Benzo(k)fluoranthene	43*	36*	57-153	6	30				
Butylbenzylphthalate	149	154	57-173	3	30				
Di-n-butylphthalate	159*	199*	65-148	22	30				
Chrysene	94	86	67-123	5	30				
Dibenz(a,h)anthracene	55	54	22-133	3	30				
Diethylphthalate	100	99	70-136	1	30				
Dimethylphthalate	108	139*	74-118	25	30				
Bis(2-Ethylhexyl)phthalate	312*	578*	39-167	60*	30				
Fluoranthene	169*	157*	51-149	7	30				
Fluorene	110	113	66-122	3	30				
Indeno(1,2,3-cd)pyrene	55	53	21-143	3	30				
1-Methylnaphthalene	90	94	72-123	4	30				
2-Methylnaphthalene	91	93	64-103	2	30				
Naphthalene	99	106*	61-102	6	30				
N-Nitrosodimethylamine	101	101	48-113	0	30				
Di-n-octylphthalate	97	93	40-192	4	30				
Phenanthrene	116	114	62-122	2	30				
Pyrene	111	106	51-131	4	30				
Batch number: 11220SLC026	Sample number(s): 6358381-6358383,6358385-6358395 UNSPK: 6358381								
Acenaphthene	89	91	75-115	2	30				
Acenaphthylene	92	95	81-110	4	30				

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Quality Control Summary

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Reported: 09/02/11 at 12:16 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Aniline	0*	28	18-116	200*	30				
Anthracene	92	96	75-115	5	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	89	95	65-122	6	30				
Benzo(a)pyrene	83	88	57-126	7	30				
Benzo(b)fluoranthene	99	100	59-125	1	30				
Benzo(g,h,i)perylene	94	95	59-127	2	30				
Benzo(k)fluoranthene	87	86	56-132	1	30				
Benzoic acid	61	47	10-173	26	30				
Benzyl alcohol	83	86	67-115	3	30				
4-Bromophenyl-phenylether	98	97	67-129	1	30				
Butylbenzylphthalate	109	109	73-134	0	30				
Di-n-butylphthalate	99	100	67-123	0	30				
Carbazole	88	89	64-120	2	30				
4-Chloro-3-methylphenol	82	88	62-122	7	30				
4-Chloroaniline	10*	29	13-107	96*	30				
bis(2-Chloroethoxy)methane	95	95	75-104	1	30				
bis(2-Chloroethyl)ether	98	96	60-116	2	30				
bis(2-Chloroisopropyl)ether	88	81	55-142	9	30				
2-Chloronaphthalene	86	97	50-141	12	30				
2-Chlorophenol	90	94	73-121	4	30				
4-Chlorophenyl-phenylether	83	88	80-109	6	30				
Chrysene	88	93	62-128	5	30				
Dibenz(a,h)anthracene	91	99	65-125	8	30				
Dibenzofuran	85	85	71-112	1	30				
1,2-Dichlorobenzene	85	82	66-108	4	30				
1,3-Dichlorobenzene	82	82	63-109	1	30				
1,4-Dichlorobenzene	84	84	58-108	0	30				
3,3'-Dichlorobenzidine	0*	10*	28-109	200*	30				
2,4-Dichlorophenol	86	88	66-123	2	30				
Diethylphthalate	89	91	66-118	3	30				
2,4-Dimethylphenol	94	93	68-118	1	30				
3,5-Dimethylphenol	93	96	71-127	3	30				
Dimethylphthalate	93	94	64-118	1	30				
4,6-Dinitro-2-methylphenol	43	38	11-126	14	30				
2,4-Dinitrophenol	24	17*	20-143	31*	30				
2,4-Dinitrotoluene	72	84	56-129	15	30				
2,6-Dinitrotoluene	87	93	69-123	6	30				
1,2-Diphenylhydrazine	112	109	71-129	3	30				
bis(2-Ethylhexyl)phthalate	112	119	63-122	6	30				
Fluoranthene	90	90	73-112	0	30				
Fluorene	84	88	63-121	4	30				
Hexachlorobenzene	90	88	77-114	2	30				
Hexachlorobutadiene	82	86	62-120	6	30				
Hexachlorocyclopentadiene	45	18	10-153	84*	30				
Hexachloroethane	80	66	57-109	19	30				
Indeno(1,2,3-cd)pyrene	94	96	61-126	2	30				
Isophorone	89	92	73-102	3	30				
1-Methylnaphthalene	83	85	64-122	3	30				
2-Methylnaphthalene	84	87	76-114	4	30				
2-Methylphenol	91	93	75-111	1	30				
4-Methylphenol	83	88	59-123	5	30				
Naphthalene	88	86	72-116	2	30				

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Nitroaniline	91	106	67-125	15	30				
3-Nitroaniline	14*	56*	59-122	118*	30				
4-Nitroaniline	20*	48	41-109	81*	30				
Nitrobenzene	97	101	57-125	4	30				
2-Nitrophenol	84	89	56-127	6	30				
4-Nitrophenol	67	77	37-129	13	30				
N-Nitroso-di-n-propylamine	85	90	60-116	5	30				
N-Nitrosodimethylamine	93	99	47-116	6	30				
N-Nitrosodiphenylamine	102	103	71-122	1	30				
Di-n-octylphthalate	111	109	56-126	2	30				
Pentachlorophenol	75	70	28-127	7	30				
Phenanthrene	91	94	65-125	3	30				
Phenol	86	87	58-126	1	30				
Pyrene	93	94	74-126	2	30				
Tetralin	50*	51*	70-130	2	30				
1,2,4-Trichlorobenzene	87	86	72-115	1	30				
2,4,5-Trichlorophenol	82	89	58-129	8	30				
2,4,6-Trichlorophenol	89	97	56-134	9	30				
Batch number: 11215A34A	Sample number(s): 6358388-6358395 UNSPK: P360506								
9a TPH by EPA 8015B Gas C5-C12	76	82	39-118	3	30				
Batch number: 112180006A	Sample number(s): 6358394-6358395 UNSPK: P361772								
4-Amino-2,6-Dinitrotoluene	104	104	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	102	102	80-137	0	50				
1,3-Dinitrobenzene	107	107	38-166	0	50				
2,4-Dinitrotoluene	97	98	80-131	1	50				
2,6-Dinitrotoluene	100	101	80-127	1	50				
HMX	94	95	63-128	1	50				
Nitrobenzene	99	99	80-125	0	50				
Nitroglycerin	81	82	80-120	0	50				
2-Nitrotoluene	98	99	80-122	1	50				
3-Nitrotoluene	106	107	72-119	1	50				
4-Nitrotoluene	98	98	80-125	1	50				
PETN	90	90	80-121	0	50				
RDX	84	84	75-129	1	50				
Tetryl	65	74	55-174	14	50				
1,3,5-Trinitrobenzene	88	96	82-126	9	50				
2,4,6-Trinitrotoluene	103	104	82-130	1	50				
Batch number: 112110005A	Sample number(s): 6358394-6358395 UNSPK: P356760								
20a Formaldehyde 8315A	99	105	80-120	5	50				
Batch number: 112200018A	Sample number(s): 6358381-6358383,6358385-6358387 UNSPK: 6358381								
2,4-D	62	59	17-180	5	35				
Dalapon	41	43	10-125	4	50				
2,4-DB	113	1*	10-201	157*	50				
Dicamba	122	108	10-190	12	50				
Dinoseb	9*	0*	10-46	200*	35				
2,4-DP (Dichlorprop)	82	70	33-178	15	50				
MCPA	54	40	10-213	29	50				
MCPP (Mecoprop)	61	80	10-184	26	50				
2,4,5-T	59	54	10-156	9	35				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4,5-TP	25	25	24-141	0	35				
Batch number: 112200028A	Sample number(s): 6358388 UNSPK: P355050								
6a Perchlorate EPA 6850	107	115	80-120	7	20				
Batch number: 112200012A	Sample number(s): 6358381-6358383,6358385-6358387 UNSPK: 6358381								
Aldrin	0*	0*	16-126	0	50				
Alpha BHC	0*	0*	10-129	0	50				
Beta BHC	0*	0*	14-147	0	50				
Gamma BHC - Lindane	0*	121	10-140	200*	50				
p,p-DDD	0*	0*	16-163	0	50				
p,p-DDE	-62 (2)	36352 (2)	18-161	181*	50				
p,p-DDT	-191 (2)	62732 (2)	10-176	156*	50				
Delta BHC	0*	0*	23-140	0	50				
Dieldrin	0*	21726*	19-154	200*	50				
Endosulfan I	0*	0*	16-137	0	50				
Endosulfan II	529*	3517*	28-154	148*	50				
Endosulfan Sulfate	0*	0*	21-160	0	50				
Endrin	519*	0*	11-149	200*	50				
Endrin Aldehyde	500*	2580*	10-148	135*	35				
Endrin Ketone	0*	0*	22-165	0	50				
Heptachlor	0*	312*	13-126	200*	50				
Heptachlor Epoxide	1227*	15336*	13-157	170*	50				
Methoxychlor	0*	0*	32-147	0	50				
Batch number: 112200013A	Sample number(s): 6358381-6358383,6358385-6358395 UNSPK: 6358381								
PCB-1016	82	88	29-146	7	50				
PCB-1260	39	117	39-149	49	50				
Batch number: 112110021A	Sample number(s): 6358385,6358388-6358395 UNSPK: 6358385								
Ethanol	90	92	48-130	3	20				
Isopropanol	90	90	12-149	0	20				
Methanol	87	89	43-138	3	20				
Batch number: 112110023A	Sample number(s): 6358397 UNSPK: P357633								
Ethanol	104	104	62-145	0	20				
Isopropanol	100	100	73-131	0	20				
Methanol	88	92	52-159	4	20				
Batch number: 112130001A	Sample number(s): 6358385,6358388-6358395 UNSPK: 6358385								
Diethylene glycol	21*	23*	59-109	10	20				
Ethylene glycol	65	66	63-107	1	20				
Propylene glycol	73	73	63-107	0	20				
Batch number: 112170029A	Sample number(s): 6358385,6358388-6358395 UNSPK: 6358385								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	0*	0*	49-123	0	20				
EFH (C21-C30)	-6272 (2)	-6258 (2)	49-123	0	20				
EFH (C30 - C40)	-38230 (2)	-44001 (2)	49-123	6	20				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 112200040A	Sample number(s): 6358385,6358388-6358395 UNSPK: 6358385								
m-Terphenyl	82	91	75-125	10	20				
o-Terphenyl	85	99	75-125	15	20				
p-Terphenyl	80	79	75-125	2	20				
Batch number: 112141026001A	Sample number(s): 6358381-6358395 UNSPK: 6358381 BKG: 6358381								
Antimony	28*	29*	75-125	0	20	0.120 J	0.111 J	8 (1)	20
Arsenic	97	99	75-125	1	20	3.04	2.96	3	20
Beryllium	94	90	75-125	3	20	0.408	0.378	8 (1)	20
Cadmium	107	104	75-125	2	20	0.597	0.534	11	20
Chromium	86	85	75-125	1	20	18.0	16.3	10	20
Cobalt	97	99	75-125	0	20	4.88	4.30	13	20
Copper	106	117	75-125	4	20	11.9	15.5	26*	20
Lead	231 (2)	30 (2)	75-125	19	20	26.6	2,910	196*	20
Nickel	97	127*	75-125	11	20	13.3	11.8	13	20
Silver	105	101	75-125	5	20	0.499	0.635	24*	20
Thallium	90	97	75-125	4	20	0.216	0.183	17 (1)	20
Vanadium	79	107	75-125	7	20	29.2	25.8	12	20
Zinc	83 (2)	14 (2)	75-125	6	20	112	111	1	20
Batch number: 112141026001B	Sample number(s): 6358381-6358395 UNSPK: 6358381 BKG: 6358381								
Selenium	103	98	75-125	5	20	0.110 J	0.0940 J	15 (1)	20
Batch number: 112141026001C	Sample number(s): 6358381-6358395 UNSPK: 6358381 BKG: 6358381								
Molybdenum	101	101	75-125	1	20	0.560	0.677	19	20
Batch number: 112141026001D	Sample number(s): 6358381-6358395 UNSPK: 6358381 BKG: 6358381								
Barium	37 (2)	297 (2)	75-125	22*	20	94.8	81.1	16	20
Batch number: 112145708004	Sample number(s): 6358381-6358395 UNSPK: 6358381 BKG: 6358381								
Aluminum	548 (2)	367 (2)	75-125	3	20	11,700	11,400	3	20
Boron	97	96	84-115	1	20	6.05	6.02	0 (1)	20
Calcium	193 (2)	81 (2)	75-125	11	20	3,400	3,560	4	20
Iron	-1613 (2)	-1628 (2)	75-125	0	20	17,900	16,900	6	20
Lithium	97	97	82-114	0	20	20.4	19.3	6	20
Magnesium	43 (2)	-69 (2)	75-125	6	20	3,900	3,830	2	20
Manganese	-8 (2)	-34 (2)	75-125	4	20	290	250	15	20
Phosphorus	59 (2)	30 (2)	75-125	6	20	451	451	0	20
Potassium	85	70*	75-125	4	20	3,210	3,090	4	20
Sodium	96	96	75-125	0	20	91.9 J	84.2 J	9 (1)	20
Strontium	100	97	75-115	3	20	18.4	20.2	9	20
Tin	89	93	80-110	5	20	2.94 J	3.05 J	4 (1)	20
Titanium	119 (2)	62 (2)	75-125	5	20	1,000	932	7	20
Zirconium	93	94	75-125	2	20	3.22 J	3.07 J	5 (1)	20
Batch number: 112145711002	Sample number(s): 6358381-6358390,6358392-6358395 UNSPK: 6358381 BKG: 6358381								
Mercury	105	115	65-135	7	20	0.0557 J	0.0619 J	11 (1)	20
Batch number: 112155711002	Sample number(s): 6358391 UNSPK: P361772 BKG: P361772								
Mercury	100	97	65-135	1	20	0.0129 J	0.0083 J	43* (1)	20

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258702
Reported: 09/02/11 at 12:16 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Batch number: 11216284201A	Sample number(s): 6358381-6358382,6358384-6358393					UNSPK: 6358381		BKG: 6358381			
7a Perchlorate EPA 314.0	107		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11216284201B	Sample number(s): 6358394-6358395					UNSPK: 6358394		BKG: 6358394			
7a Perchlorate EPA 314.0	106		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11216621203A	Sample number(s): 6358381-6358382,6358384-6358393					UNSPK: 6358381		BKG: 6358381			
11a Anions by 300.0 - Fluoride	93		80-120			0.80	U	1.3		200* (1)	20
Batch number: 11216621203B	Sample number(s): 6358394-6358395					UNSPK: 6358394		BKG: 6358394			
11a Anions by 300.0 - Fluoride	90		80-120			2.6		2.6		1 (1)	20
11a Anions by 300.0 - Nitrate	104		80-120			0.80	U	0.80	U	0 (1)	20
Batch number: 11221102202A	Sample number(s): 6358394-6358395					UNSPK: P361772		BKG: P361772			
16a Cyanide by 9012B	107		75-125			0.18	U	0.18	U	0 (1)	20
Batch number: 11221243202A	Sample number(s): 6358381-6358382,6358384-6358395					UNSPK: 6358381		BKG: 6358381			
3a Cr VI by EPA 7199	85		75-125			0.58	J	0.51	J	12 (1)	20
Batch number: 11215039401A	Sample number(s): 6358381,6358384-6358392					BKG: 6358381					
17a pH by 9045C						7.24		7.39		2	3
Batch number: 11215039401B	Sample number(s): 6358393-6358395					BKG: 6358393					
17a pH by 9045C						8.95		8.97		0	3
Batch number: 11217162402A	Sample number(s): 6358381-6358393					BKG: 6358381					
28a Moisture Content by 160.3						2.7		2.8		6	20
Moisture Content by 160.3						2.7		2.8		6	20
Moisture Content by 160.3						2.7		2.8		6	20
Batch number: 11229162401B	Sample number(s): 6358394-6358395					BKG: P361772					
Moisture Content by 160.3						9.2		9.4		2	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E112141AA

	Toluene-d8
6358397	99
Blank	99
LCS	99
LCSD	99
Limits:	80-120

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258702
Reported: 09/02/11 at 12:16 PM

Surrogate Quality Control

Analysis Name: 1b Volatile Organics EPA8260B
Batch number: Y112101AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6358397	97	101	101	98
Blank	99	101	101	98
LCS	98	104	103	103
LCSD	98	103	102	102
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11210WAA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6358397	113	93	117
Blank	101	94	112
LCS	113	102	110
LCSD	107	96	105
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11210WAB026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6358397	57	39	88	94	87	88
Blank	63	52	106	96	100	84
LCS	67	58	109	92	97	97
LCSD	73	55	95	99	96	88
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 21b NDMA by 1625C
Batch number: 11211WAE026

	N-Nitrosodimethylamine-d6
6358397	171*
Blank	103
LCS	89
LCSD	97
Limits:	50-150

Analysis Name: 21a NDMA by 1625C
Batch number: 11214SLG026

	N-Nitrosodimethylamine-d6
6358394	97
6358395	102
Blank	99
LCS	110
MS	97
MSD	108

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258702
Reported: 09/02/11 at 12:16 PM

Surrogate Quality Control

Limits: 50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11220SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6358381	111	101	93
6358382	109	94	89
6358383	106	94	88
6358385	112	98	99
6358386	102	100	140*
6358387	107	95	86
6358388	98	96	91
6358389	101	94	96
6358390	104	106	115
6358391	100	100	127
6358392	106	95	93
6358393	98	94	99
6358394	97	95	90
6358395	101	98	112
Blank	98	91	106
LCS	96	89	100
MS	109	94	89
MSD	106	94	88
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11220SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6358381	108	105	92	93	89	82
6358382	87	88	70	89	89	75
6358383	95	95	75	93	93	78
6358385	98	99	79	87	95	77
6358386	87	87	73	88	89	82
6358387	86	88	85	94	92	80
6358388	91	90	91	90	93	84
6358389	88	86	91	89	92	83
6358390	93	92	87	91	97	84
6358391	86	89	88	87	92	78
6358392	95	94	76	90	93	74
6358393	89	93	81	96	94	81
6358394	87	91	80	90	88	78
6358395	91	86	76	94	86	78
Blank	79	79	73	71	73	69
LCS	99	102	97	89	92	82
MS	87	88	70	89	89	75
MSD	95	95	75	93	93	78
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11215A20A

	Trifluorotoluene-F
6358396	97

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258702
Reported: 09/02/11 at 12:16 PM

Surrogate Quality Control

6358397	97
Blank	98
LCS	152*
LCSD	150*
Limits:	63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11215A34A

	Trifluorotoluene-F
6358388	88
6358389	84
6358390	94
6358391	86
6358392	89
6358393	88
6358394	87
6358395	70
Blank	96
LCS	98
MS	85
MSD	93
Limits:	61-122

Analysis Name: 20b Formaldehyde 8315A
Batch number: 112100001A

	Butyraldehyde
6358397	92
Blank	90
LCS	103
LCSD	81
Limits:	45-145

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 112100007A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6358397	114	103
Blank	111	86
LCS	111	93
LCSD	94	78
Limits:	30-150	45-120

Analysis Name: 15b Energetics by 8330A
Batch number: 112100016A

	2-Nitro-m-xylene
6358397	111
Blank	106
LCS	105
LCSD	112

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258702
Reported: 09/02/11 at 12:16 PM

Surrogate Quality Control

Limits: 50-134

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112110005A

	Butyraldehyde
6358394	102
6358395	106
Blank	106
LCS	111
MS	107
MSD	110

Limits: 64-126

Analysis Name: 15a Energetics by 8330A
Batch number: 112180006A

	2-Nitro-m-xylene
6358394	120
6358395	123
Blank	119
LCS	126
LCSD	122
MS	106
MSD	118

Limits: 80-146

Analysis Name: 12a Pesticides by 8081A
Batch number: 112200012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6358381	67	135*
6358382	63	115
6358383	51	124*
6358385	61	0*
6358386	386*	880*
6358387	56	0*
Blank	57	93
LCS	71	99
MS	63	0*
MSD	51	124*

Limits: 50-130 20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112200013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6358381	97	82
6358382	92	78
6358383	89	78
6358385	49*	40*
6358386	93	90
6358387	107	846*
6358388	89	80

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258702
Reported: 09/02/11 at 12:16 PM

Surrogate Quality Control

6358389	101	289*
6358390	92	93
6358391	81	81
6358392	87	81
6358393	99	88
6358394	91	65
6358395	100	99
Blank	98	99
LCS	96	101
LCSD	96	104
MS	92	78
MSD	89	78
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112200018A

	2,4-Dichlorophenylacetic acid
6358381	76
6358382	117
6358383	79
6358385	75
6358386	109
6358387	110
Blank	90
LCS	85
MS	117
MSD	79
Limits:	36-156

Analysis Name: 22b Terphenyls by 8015B
Batch number: 112090027A

	n-Triacontane-d62
6358397	68
Blank	78
LCS	73
LCSD	78
Limits:	50-150

Analysis Name: 18a Alcohols by 8015B
Batch number: 112110021A

	Acetone
6358385	88
6358388	86
6358389	82
6358390	91
6358391	87
6358392	89
6358393	93
6358394	94
6358395	82

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258702
Reported: 09/02/11 at 12:16 PM

Surrogate Quality Control

Blank	96
LCS	92
MS	94
MSD	94
Limits:	42-138

Analysis Name: 18b Alcohols by 8015B
Batch number: 112110023A

	Acetone
6358397	97
Blank	103
LCS	101
MS	100
MSD	102
Limits:	54-147

Analysis Name: 19a Glycols by 8015B
Batch number: 112130001A

	Tetramethylene glycol
6358385	87
6358388	83
6358389	82
6358390	89
6358391	88
6358392	87
6358393	89
6358394	88
6358395	85
Blank	96
LCS	92
MS	91
MSD	90
Limits:	29-137

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 112130016A

	Chlorobenzene	Orthoterphenyl
6358397	83	94
Blank	80	91
LCS	71	92
LCSD	85	93
Limits:	28-152	52-131

Analysis Name: 19b Glycols by 8015B
Batch number: 112130018A

	Tetramethylene glycol
6358397	104
Blank	103
LCS	107

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258702
Reported: 09/02/11 at 12:16 PM

Surrogate Quality Control

LCSD 106

Limits: 77-119

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112170029A

	Chlorobenzene	Orthoterphenyl
6358385	74	86
6358388	60	75
6358389	62	73
6358390	58	77
6358391	59	75
6358392	66	82
6358393	69	85
6358394	79	95
6358395	71	80
Blank	82	92
LCS	88	99
MS	60	63
MSD	59	74
Limits:	37-125	47-145

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112200040A

	n-Triacontane-d62
6358385	0*
6358388	90
6358389	79
6358390	76
6358391	75
6358392	77
6358393	83
6358394	86
6358395	76
Blank	77
LCS	78
MS	0*
MSD	0*
Limits:	50-150

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1255702 Sample# 63553381-91

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-009-SA6-SS-0.0-0.5MS	7/27/11	0820	SOIL	NONE	2-SS Sleeve			X	X																	
SL-009-SA6-SS-0.0-0.5MS	7/27/11	0820	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X										MS/MSD
SL-017-SA6-SS-0.0-0.5	7/27/11	0914	SOIL	NONE	1-SS Sleeve			X	X																	MS/MSD
SL-017-SA6-SS-0.0-0.5	7/27/11	0914	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X						X	X	X	
SL-028-SA6-SS.0.0-0.5	7/27/11	0730	SOIL	NONE	1-SS Sleeve			X	X																	
SL-028-SA6-SS.0.0-0.5	7/27/11	0730	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		X	X										
DUP09-SA6-QC-072711	7/27/11	0828	SOIL	NONE	1-SS Sleeve			X	X																	
DUP09-SA6-QC-072711	7/27/11	0828	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		X	X										

Relinquished by: (*Signature*) — Date/Time: 07/27/2011 / 1600 — Received for Laboratory by: (*Signature*)

Received by: (*Signature*) — Date/Time — Airbill No.(s): 8754 3341 0324, 0299,0288,0303

Laboratory: Lancaster Laboratories, Inc.

acct# 13013 Cap# 1255702 sample# 6355381-97

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B& 7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-069-SA6-SB-4.5	7/27/11	0830	SOIL	NONE	2-Encores										X										
SL-069-SA6-SB-4.0-5.0	7/27/11	0835	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X		X						X	X	X	
SL-069-SA6-SB-9.5	7/27/11	0840	SOIL	NONE	2-Encores										X										
SL-069-SA6-SB-9.0-10.0	7/27/11	0845	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-076-SA6-SB-2.5	7/27/11	1100	SOIL	NONE	2-Encores										X										
SL-076-SA6-SB-2.0-3.0	7/27/11	1105	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-089-SA6-SB-4.5	7/27/11	0945	SOIL	NONE	2-Encores										X										
SL-089-SA6-SB-4.0-5.0	7/27/11	0950	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-089-SA6-SB-9.5	7/27/11	0955	SOIL	NONE	2-Encores										X										
SL-089-SA6-SB-9.0-10.0	7/27/11	1000	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-117-SA6-SB-2.5	7/27/11	1210	SOIL	NONE	2-Encores										X										
SL-117-SA6-SB-2.0-3.0	7/27/11	1215	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-179-SA5DN-SB-4.5	7/27/11	1432	SOIL	NONE	2-Encores										X										
SL-179-SA5DN-SB-4.0-5.0	7/27/11	1431	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	
SL-179-SA5DN-SB-9.5	7/27/11	1450	SOIL	NONE	2-Encores																				
SL-179-SA5DN-SB-9.0-10.0	7/27/11	1449	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	
TB-072711	7/27/11	0800	WATER	NONE	2-40mL Vials										X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	07/27/2011 / 1600		Lancaster Laboratories, inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	7/27/11 1715	8754 3341 0324, 0299,0288,0303	

acct# 13013 Cap# 1255702 Sample# 6353391-91

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS										VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
EB-SA6-SB-072711	07.27.11	1300	WATER	NONE	10-1 liter ambers			X	X	X																	
EB-SA6-SB-072711	07.27.11	1300	WATER	NONE	1-500 mL poly		X				X	X	X					X		X	X		X				
EB-SA6-SB-072711	07.27.11	1300	WATER	HNO3	1-500 mL poly	X																					
EB-SA6-SB-072711	07.27.11	1300	WATER	NaOH	1-500 mL glass																						
EB-SA6-SB-072711	07.27.11	1300	WATER	NONE	1-250 mL glass																		X				
EB-SA6-SB-072711	07.27.11	1300	WATER	HCl	11-40 mL vials										X	X	X			X							
EB-SA6-SB-072711	07.27.11	1300	WATER	NONE	4-40 mL vials														X					X			

Relinquished by: (Signature) | **Date/Time** 07/27/2011 / 1600 | **Received for Laboratory by: (Signature)**

Received by: (Signature) | **Date/Time:** 7/28/11 0925 | **Airbill No.(s)** 8754 3341 0324, 0299,0288,0303

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 24, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/28/2011
Group Number: 1258703
SDG: DX120
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-009-SA6-SS-0.0-0.5 Soil	6358398
SL-009-SA6-SS-0.0-0.5MS Soil	6358399
SL-009-SA6-SS-0.0-0.5MSD Soil	6358400
SL-017-SA6-SS-0.0-0.5 Soil	6358401
SL-028-SA6-SS-0.0-0.5 Soil	6358402
DUP09-SA6-QC-072711 Soil	6358403
SL-069-SA6-SB-4.0-5.0 Soil	6358404
SL-069-SA6-SB-9.0-10.0 Soil	6358405
SL-076-SA6-SB-2.0-3.0 Soil	6358406
SL-089-SA6-SB-4.0-5.0 Soil	6358407
SL-089-SA6-SB-9.0-10.0 Soil	6358408
SL-117-SA6-SB-2.0-3.0 Soil	6358409
SL-179-SA5DN-SB-4.0-5.0 Soil	6358410
SL-179-SA5DN-SB-9.0-10.0 Soil	6358411
EB-SA6-SB-072711 Water	6358412

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5

LLI Sample # SW 6358398
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2007 SDG#: DX120-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5

LLI Sample # SW 6358398
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2007 SDG#: DX120-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	6.67	B	0.0211	1.02	1
11031	12378-PeCDD	40321-76-4	1.32	JB	0.0449	5.08	1
11031	123478-HxCDD	39227-28-6	1.58	JB	0.0282	5.08	1
11031	123678-HxCDD	57653-85-7	6.58	B	0.0288	5.08	1
11031	123789-HxCDD	19408-74-3	3.42	JB	0.0267	5.08	1
11031	1234678-HpCDD	35822-46-9	162	B	0.0844	5.08	1
11031	OCDD	3268-87-9	1,920	B	0.0707	10.2	1
11031	2378-TCDF	51207-31-9	4.53	BC	0.118	1.02	1
11031	12378-PeCDF	57117-41-6	10.3	B	0.0513	5.08	1
11031	23478-PeCDF	57117-31-4	5.95	B	0.0474	5.08	1
11031	123478-HxCDF	70648-26-9	6.02	B	0.0356	5.08	1
11031	123678-HxCDF	57117-44-9	3.33	JB	0.0351	5.08	1
11031	123789-HxCDF	72918-21-9	0.876	JB	0.0345	5.08	1
11031	234678-HxCDF	60851-34-5	3.16	JB	0.0326	5.08	1
11031	1234678-HpCDF	67562-39-4	30.9	B	0.0261	5.08	1
11031	1234789-HpCDF	55673-89-7	2.83	JB	0.0305	5.08	1
11031	OCDF	39001-02-0	80.5	B	0.0230	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	85	26 - 138
13C12-OCDF	79	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5

LLI Sample # SW 6358398
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2007 SDG#: DX120-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5

LLI Sample # SW 6358398
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2007 SDG#: DX120-07BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11222001	08/12/2011 17:40	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11222001	08/10/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402A	08/05/2011 19:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5MS

LLI Sample # SW 6358399
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2007 SDG#: DX120-07MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5MS

LLI Sample # SW 6358399
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2007 SDG#: DX120-07MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	19.2	B	0.0188	0.981	1
11031	12378-PeCDD	40321-76-4	96.0	B	0.0482	4.90	1
11031	123478-HxCDD	39227-28-6	98.1	B	0.0409	4.90	1
11031	123678-HxCDD	57653-85-7	104	B	0.0431	4.90	1
11031	123789-HxCDD	19408-74-3	103	B	0.0390	4.90	1
11031	1234678-HpCDD	35822-46-9	292	B	0.0884	4.90	1
11031	OCDD	3268-87-9	2,340	B	0.0663	9.81	1
11031	2378-TCDF	51207-31-9	22.8	B	0.120	0.981	1
11031	12378-PeCDF	57117-41-6	112	B	0.0540	4.90	1
11031	23478-PeCDF	57117-31-4	103	B	0.0502	4.90	1
11031	123478-HxCDF	70648-26-9	109	B	0.0437	4.90	1
11031	123678-HxCDF	57117-44-9	106	B	0.0422	4.90	1
11031	123789-HxCDF	72918-21-9	104	B	0.0465	4.90	1
11031	234678-HxCDF	60851-34-5	105	B	0.0412	4.90	1
11031	1234678-HpCDF	67562-39-4	146	B	0.0419	4.90	1
11031	1234789-HpCDF	55673-89-7	104	B	0.0521	4.90	1
11031	OCDF	39001-02-0	433	B	0.0329	9.81	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	69	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-009-SA6-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5MS

LLI Sample # SW 6358399
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2007 SDG#: DX120-07MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA6-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5MS

LLI Sample # SW 6358399
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2007 SDG#: DX120-07MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11222001	08/12/2011 18:37	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11222001	08/10/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402A	08/05/2011 19:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5MSD

LLI Sample # SW 6358400
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2007 SDG#: DX120-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-009-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5MSD

LLI Sample # SW 6358400
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2007 SDG#: DX120-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	19.4	B	0.0202	1.00	1
11031	12378-PeCDD	40321-76-4	96.1	B	0.0408	5.01	1
11031	123478-HxCDD	39227-28-6	99.1	B	0.0336	5.01	1
11031	123678-HxCDD	57653-85-7	103	B	0.0342	5.01	1
11031	123789-HxCDD	19408-74-3	102	B	0.0336	5.01	1
11031	1234678-HpCDD	35822-46-9	261	B	0.0860	5.01	1
11031	OCDD	3268-87-9	1,890	B	0.0552	10.0	1
11031	2378-TCDF	51207-31-9	23.5	B	0.125	1.00	1
11031	12378-PeCDF	57117-41-6	109	B	0.0501	5.01	1
11031	23478-PeCDF	57117-31-4	104	B	0.0455	5.01	1
11031	123478-HxCDF	70648-26-9	111	B	0.0450	5.01	1
11031	123678-HxCDF	57117-44-9	107	B	0.0436	5.01	1
11031	123789-HxCDF	72918-21-9	106	B	0.0422	5.01	1
11031	234678-HxCDF	60851-34-5	108	B	0.0439	5.01	1
11031	1234678-HpCDF	67562-39-4	138	B	0.0376	5.01	1
11031	1234789-HpCDF	55673-89-7	106	B	0.0462	5.01	1
11031	OCDF	39001-02-0	301	B	0.0295	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	102	25 - 164
13C12-12378-PeCDD	96	25 - 181
13C12-123478-HxCDD	96	32 - 141
13C12-123678-HxCDD	96	28 - 130
13C12-123789-HxCDD	99	28 - 130
13C12-1234678-HpCDD	99	23 - 140
13C12-OCDD	103	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	91	26 - 152
13C12-123678-HxCDF	91	26 - 123
13C12-234678-HxCDF	92	28 - 136
13C12-123789-HxCDF	107	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	96	26 - 138
13C12-OCDF	97	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-009-SA6-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5MSD

LLI Sample # SW 6358400
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2007 SDG#: DX120-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA6-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA6-SS-0.0-0.5MSD

LLI Sample # SW 6358400
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:20

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2007 SDG#: DX120-07MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11222001	08/12/2011 19:33	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11222001	08/10/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402A	08/05/2011 19:10	Scott W Freisher	1

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Analysis Report

Sample Description: SL-017-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA6-SS-0.0-0.5

LLI Sample # SW 6358401
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 09:14

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2008 SDG#: DX120-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-017-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA6-SS-0.0-0.5

LLI Sample # SW 6358401
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 09:14

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2008 SDG#: DX120-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.326 JB	0.0244	1.00	1
11031	12378-PeCDD	40321-76-4	2.18 JB	0.0588	5.00	1
11031	123478-HxCDD	39227-28-6	4.75 JB	0.0824	5.00	1
11031	123678-HxCDD	57653-85-7	32.9 B	0.0839	5.00	1
11031	123789-HxCDD	19408-74-3	11.2 B	0.0784	5.00	1
11031	1234678-HpCDD	35822-46-9	1,410 B	0.255	5.00	1
11031	OCDD	3268-87-9	21,800 EB	0.188	10.0	1
11650	2378-TCDF-Conf	51207-31-9	1.94 BC	0.0806	1.00	1
11031	12378-PeCDF	57117-41-6	2.36 JB	0.0388	5.00	1
11031	23478-PeCDF	57117-31-4	7.24 B	0.0363	5.00	1
11031	123478-HxCDF	70648-26-9	5.41 B	0.0585	5.00	1
11031	123678-HxCDF	57117-44-9	4.18 JB	0.0557	5.00	1
11031	123789-HxCDF	72918-21-9	1.17 JB	0.0596	5.00	1
11031	234678-HxCDF	60851-34-5	7.18 B	0.0538	5.00	1
11031	1234678-HpCDF	67562-39-4	110 B	0.0505	5.00	1
11031	1234789-HpCDF	55673-89-7	10.9 B	0.0662	5.00	1
11031	OCDF	39001-02-0	307 B	0.0511	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	91	25 - 164
13C12-2378-TCDF-Conf	95	24 - 169
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	62	17 - 157
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	83	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: SL-017-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA6-SS-0.0-0.5

LLI Sample # SW 6358401
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 09:14

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2008 SDG#: DX120-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Labeled Compounds		%Rec	Windows			
13C12-123789-HxCDF		87	29 - 147			
13C12-1234678-HpCDF		78	28 - 143			
13C12-1234789-HpCDF		75	26 - 138			
13C12-OCDF		57	17 - 157			

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA6-SS-0.0-0.5

LLI Sample # SW 6358401
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 09:14

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2008 SDG#: DX120-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11222001	08/12/2011 20:30	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11222001	08/15/2011 19:26	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11222001	08/10/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402A	08/05/2011 19:10	Scott W Freisher	1

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Analysis Report

Sample Description: SL-028-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA6-SS-0.0-0.5

LLI Sample # SW 6358402
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 07:30

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2009 SDG#: DX120-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-028-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA6-SS-0.0-0.5

LLI Sample # SW 6358402
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 07:30

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2009 SDG#: DX120-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.302	JB	0.0197	1.01	1
11031	12378-PeCDD	40321-76-4	1.49	JB	0.0602	5.07	1
11031	123478-HxCDD	39227-28-6	1.77	JB	0.0342	5.07	1
11031	123678-HxCDD	57653-85-7	5.66	B	0.0346	5.07	1
11031	123789-HxCDD	19408-74-3	3.81	JB	0.0319	5.07	1
11031	1234678-HpCDD	35822-46-9	108	B	0.0755	5.07	1
11031	OCDD	3268-87-9	1,130	B	0.0728	10.1	1
11650	2378-TCDF-Conf	51207-31-9	3.49	BC	0.104	1.01	1
11031	12378-PeCDF	57117-41-6	30.6	B	0.0681	5.07	1
11031	23478-PeCDF	57117-31-4	35.2	B	0.0623	5.07	1
11031	123478-HxCDF	70648-26-9	25.2	B	0.0461	5.07	1
11031	123678-HxCDF	57117-44-9	12.0	B	0.0465	5.07	1
11031	123789-HxCDF	72918-21-9	0.964	JB	0.0519	5.07	1
11031	234678-HxCDF	60851-34-5	4.02	JB	0.0450	5.07	1
11031	1234678-HpCDF	67562-39-4	29.2	B	0.0266	5.07	1
11031	1234789-HpCDF	55673-89-7	2.52	JB	0.0345	5.07	1
11031	OCDF	39001-02-0	55.0	B	0.0324	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-2378-TCDF-Conf	88	24 - 169
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	62	17 - 157
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA6-SS-0.0-0.5

LLI Sample # SW 6358402
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 07:30

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2009 SDG#: DX120-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA6-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA6-SS-0.0-0.5

LLI Sample # SW 6358402
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 07:30

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2009 SDG#: DX120-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11222001	08/12/2011 21:26	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11222001	08/15/2011 20:32	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11222001	08/10/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402A	08/05/2011 19:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP09-SA6-QC-072711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA6-QC-072711

LLI Sample # SW 6358403
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:28

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2010 SDG#: DX120-10FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP09-SA6-QC-072711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA6-QC-072711

LLI Sample # SW 6358403
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:28

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2010 SDG#: DX120-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	1.32	B	0.0202	0.986	1
11031	12378-PeCDD	40321-76-4	1.24	JB	0.0421	4.93	1
11031	123478-HxCDD	39227-28-6	1.50	JB	0.0298	4.93	1
11031	123678-HxCDD	57653-85-7	6.42	B	0.0303	4.93	1
11031	123789-HxCDD	19408-74-3	3.63	JB	0.0283	4.93	1
11031	1234678-HpCDD	35822-46-9	174	B	0.0926	4.93	1
11031	OCDD	3268-87-9	1,790	B	0.0851	9.86	1
11650	2378-TCDF-Conf	51207-31-9	4.11	BC	0.113	0.986	1
11031	12378-PeCDF	57117-41-6	1.90	JB	0.0482	4.93	1
11031	23478-PeCDF	57117-31-4	5.96	B	0.0447	4.93	1
11031	123478-HxCDF	70648-26-9	6.83	B	0.0407	4.93	1
11031	123678-HxCDF	57117-44-9	2.79	JB	0.0383	4.93	1
11031	123789-HxCDF	72918-21-9	0.819	JB	0.0345	4.93	1
11031	234678-HxCDF	60851-34-5	2.84	JB	0.0318	4.93	1
11031	1234678-HpCDF	67562-39-4	30.8	B	0.0325	4.93	1
11031	1234789-HpCDF	55673-89-7	2.92	JB	0.0370	4.93	1
11031	OCDF	39001-02-0	86.7	B	0.0329	9.86	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-2378-TCDF-Conf	79	24 - 169
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	62	17 - 157
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP09-SA6-QC-072711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA6-QC-072711

LLI Sample # SW 6358403
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:28

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2010 SDG#: DX120-10FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP09-SA6-QC-072711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA6-QC-072711

LLI Sample # SW 6358403
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:28

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2010 SDG#: DX120-10FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11222001	08/12/2011 22:23	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11222001	08/15/2011 21:38	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11222001	08/10/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402A	08/05/2011 19:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-069-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA6-SB-4.0-5.0

LLI Sample # SW 6358404
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:35

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2011 SDG#: DX120-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-069-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA6-SB-4.0-5.0

LLI Sample # SW 6358404
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:35

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2011 SDG#: DX120-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0117 JBQ	0.0105	1.04	1
11031	12378-PeCDD	40321-76-4	0.0351 JBQ	0.0119	5.22	1
11031	123478-HxCDD	39227-28-6	0.0266 JB	0.0154	5.22	1
11031	123678-HxCDD	57653-85-7	0.120 JB	0.0158	5.22	1
11031	123789-HxCDD	19408-74-3	0.107 JB	0.0154	5.22	1
11031	1234678-HpCDD	35822-46-9	10.2 B	0.0340	5.22	1
11031	OCDD	3268-87-9	123 B	0.0344	10.4	1
11031	2378-TCDF	51207-31-9	0.0257 JBQ	0.0147	1.04	1
11031	12378-PeCDF	57117-41-6	0.0526 JBQ	0.0121	5.22	1
11031	23478-PeCDF	57117-31-4	0.106 JBQ	0.0124	5.22	1
11031	123478-HxCDF	70648-26-9	0.104 JBQ	0.0163	5.22	1
11031	123678-HxCDF	57117-44-9	0.0597 JB	0.0130	5.22	1
11031	123789-HxCDF	72918-21-9	0.0782 JB	0.0168	5.22	1
11031	234678-HxCDF	60851-34-5	0.0733 JB	0.0136	5.22	1
11031	1234678-HpCDF	67562-39-4	0.401 JB	0.0121	5.22	1
11031	1234789-HpCDF	55673-89-7	0.124 JBQ	0.0248	5.22	1
11031	OCDF	39001-02-0	0.991 JB	0.0310	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	43	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-069-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA6-SB-4.0-5.0

LLI Sample # SW 6358404
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:35

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2011 SDG#: DX120-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-069-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA6-SB-4.0-5.0

LLI Sample # SW 6358404
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:35

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2011 SDG#: DX120-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11222001	08/12/2011 23:20	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11222001	08/10/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402A	08/05/2011 19:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-069-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA6-SB-9.0-10.0

LLI Sample # SW 6358405
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:45

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2012 SDG#: DX120-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-069-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA6-SB-9.0-10.0

LLI Sample # SW 6358405
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:45

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2012 SDG#: DX120-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0109 U	0.0109	1.10	1
11031	12378-PeCDD	40321-76-4	0.0451 JBQ	0.0131	5.48	1
11031	123478-HxCDD	39227-28-6	0.0355 JBQ	0.0136	5.48	1
11031	123678-HxCDD	57653-85-7	0.0808 JB	0.0145	5.48	1
11031	123789-HxCDD	19408-74-3	0.143 JB	0.0126	5.48	1
11031	1234678-HpCDD	35822-46-9	1.37 JB	0.0191	5.48	1
11031	OCDD	3268-87-9	10.5 JB	0.0240	11.0	1
11031	2378-TCDF	51207-31-9	0.0825 JB	0.0313	1.10	1
11031	12378-PeCDF	57117-41-6	0.140 JB	0.0156	5.48	1
11031	23478-PeCDF	57117-31-4	0.261 JBQ	0.0164	5.48	1
11031	123478-HxCDF	70648-26-9	0.358 JB	0.0178	5.48	1
11031	123678-HxCDF	57117-44-9	0.0515 JBQ	0.0146	5.48	1
11031	123789-HxCDF	72918-21-9	0.164 JBQ	0.0171	5.48	1
11031	234678-HxCDF	60851-34-5	0.0593 JB	0.0125	5.48	1
11031	1234678-HpCDF	67562-39-4	0.150 JBQ	0.00885	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0618 JB	0.0161	5.48	1
11031	OCDF	39001-02-0	0.396 JB	0.0255	11.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	57	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	44	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-069-SA6-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-069-SA6-SB-9.0-10.0

LLI Sample # SW 6358405
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:45

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2012 SDG#: DX120-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-069-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA6-SB-9.0-10.0

LLI Sample # SW 6358405
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 08:45

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2012 SDG#: DX120-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11222001	08/13/2011 03:19	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11222001	08/10/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402A	08/05/2011 19:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA6-SB-2.0-3.0

LLI Sample # SW 6358406
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 11:05

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2013 SDG#: DX120-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-076-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA6-SB-2.0-3.0

LLI Sample # SW 6358406
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 11:05

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2013 SDG#: DX120-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0638 JB	0.0180	1.08	1
11031	12378-PeCDD	40321-76-4	0.0310 JBQ	0.0160	5.41	1
11031	123478-HxCDD	39227-28-6	0.0199 JBQ	0.0146	5.41	1
11031	123678-HxCDD	57653-85-7	0.0393 JBQ	0.0154	5.41	1
11031	123789-HxCDD	19408-74-3	0.0689 JBQ	0.0148	5.41	1
11031	1234678-HpCDD	35822-46-9	0.473 JB	0.0199	5.41	1
11031	OCDD	3268-87-9	0.974 JB	0.0217	10.8	1
11031	2378-TCDF	51207-31-9	0.0129 JBQ	0.0116	1.08	1
11031	12378-PeCDF	57117-41-6	0.0268 JBQ	0.00769	5.41	1
11031	23478-PeCDF	57117-31-4	0.0478 JBQ	0.00823	5.41	1
11031	123478-HxCDF	70648-26-9	0.0227 JBQ	0.0119	5.41	1
11031	123678-HxCDF	57117-44-9	0.0311 JB	0.00975	5.41	1
11031	123789-HxCDF	72918-21-9	0.0132 U	0.0132	5.41	1
11031	234678-HxCDF	60851-34-5	0.0152 JBQ	0.0102	5.41	1
11031	1234678-HpCDF	67562-39-4	0.0433 JBQ	0.00542	5.41	1
11031	1234789-HpCDF	55673-89-7	0.0620 JBQ	0.0125	5.41	1
11031	OCDF	39001-02-0	0.135 JBQ	0.0341	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	53	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	57	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	51	26 - 138
13C12-OCDF	41	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA6-SB-2.0-3.0

LLI Sample # SW 6358406
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 11:05

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2013 SDG#: DX120-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA6-SB-2.0-3.0

LLI Sample # SW 6358406
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 11:05

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2013 SDG#: DX120-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11222001	08/13/2011 04:15	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11222001	08/10/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402A	08/05/2011 19:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA6-SB-4.0-5.0

LLI Sample # SW 6358407
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 09:50

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2014 SDG#: DX120-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-089-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA6-SB-4.0-5.0

LLI Sample # SW 6358407
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 09:50

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2014 SDG#: DX120-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0209 JBQ	0.00989	1.08	1
11031	12378-PeCDD	40321-76-4	0.0484 JB	0.0134	5.40	1
11031	123478-HxCDD	39227-28-6	0.0727 JBQ	0.0159	5.40	1
11031	123678-HxCDD	57653-85-7	0.370 JB	0.0162	5.40	1
11031	123789-HxCDD	19408-74-3	0.176 JB	0.0159	5.40	1
11031	1234678-HpCDD	35822-46-9	26.0 B	0.0399	5.40	1
11031	OCDD	3268-87-9	322 B	0.0340	10.8	1
11031	2378-TCDF	51207-31-9	0.205 JB	0.0245	1.08	1
11031	12378-PeCDF	57117-41-6	0.497 JB	0.0140	5.40	1
11031	23478-PeCDF	57117-31-4	0.429 JB	0.0135	5.40	1
11031	123478-HxCDF	70648-26-9	0.212 JBQ	0.0147	5.40	1
11031	123678-HxCDF	57117-44-9	0.119 JB	0.0132	5.40	1
11031	123789-HxCDF	72918-21-9	0.0618 JBQ	0.0163	5.40	1
11031	234678-HxCDF	60851-34-5	0.151 JB	0.0134	5.40	1
11031	1234678-HpCDF	67562-39-4	1.27 JB	0.0103	5.40	1
11031	1234789-HpCDF	55673-89-7	0.189 JB	0.0169	5.40	1
11031	OCDF	39001-02-0	2.80 JB	0.0201	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	54	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA6-SB-4.0-5.0

LLI Sample # SW 6358407
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 09:50

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2014 SDG#: DX120-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-089-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA6-SB-4.0-5.0

LLI Sample # SW 6358407
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 09:50

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2014 SDG#: DX120-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11222001	08/13/2011 05:12	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11222001	08/10/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402A	08/05/2011 19:10	Scott W Freisher	1

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Analysis Report

Sample Description: SL-089-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA6-SB-9.0-10.0

LLI Sample # SW 6358408
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 10:00

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2015 SDG#: DX120-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-089-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA6-SB-9.0-10.0

LLI Sample # SW 6358408
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 10:00

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2015 SDG#: DX120-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0567	JBQ	0.0101	1.06	1
11031	12378-PeCDD	40321-76-4	0.385	JB	0.0171	5.31	1
11031	123478-HxCDD	39227-28-6	0.346	JB	0.0224	5.31	1
11031	123678-HxCDD	57653-85-7	1.26	JB	0.0228	5.31	1
11031	123789-HxCDD	19408-74-3	0.570	JB	0.0229	5.31	1
11031	1234678-HpCDD	35822-46-9	67.5	B	0.0607	5.31	1
11031	OCDD	3268-87-9	681	B	0.0518	10.6	1
11031	2378-TCDF	51207-31-9	0.204	JB	0.0189	1.06	1
11031	12378-PeCDF	57117-41-6	0.111	JB	0.0127	5.31	1
11031	23478-PeCDF	57117-31-4	0.357	JB	0.0124	5.31	1
11031	123478-HxCDF	70648-26-9	0.396	JB	0.0177	5.31	1
11031	123678-HxCDF	57117-44-9	0.216	JB	0.0153	5.31	1
11031	123789-HxCDF	72918-21-9	0.120	JBQ	0.0169	5.31	1
11031	234678-HxCDF	60851-34-5	0.323	JB	0.0141	5.31	1
11031	1234678-HpCDF	67562-39-4	4.44	JB	0.0153	5.31	1
11031	1234789-HpCDF	55673-89-7	0.473	JB	0.0214	5.31	1
11031	OCDF	39001-02-0	12.2	B	0.0222	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	65	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-089-SA6-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA6-SB-9.0-10.0

LLI Sample # SW 6358408
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 10:00

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2015 SDG#: DX120-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-089-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA6-SB-9.0-10.0

LLI Sample # SW 6358408
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 10:00

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2015 SDG#: DX120-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11222001	08/13/2011 06:09	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11222001	08/10/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402A	08/05/2011 19:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-117-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA6-SB-2.0-3.0

LLI Sample # SW 6358409
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 12:15

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2016 SDG#: DX120-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-117-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA6-SB-2.0-3.0

LLI Sample # SW 6358409
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 12:15

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2016 SDG#: DX120-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0404 JB	0.00939	1.03	1
11031	12378-PeCDD	40321-76-4	0.0959 JBQ	0.00971	5.14	1
11031	123478-HxCDD	39227-28-6	0.0452 JBQ	0.00960	5.14	1
11031	123678-HxCDD	57653-85-7	0.0527 JB	0.0100	5.14	1
11031	123789-HxCDD	19408-74-3	0.0756 JB	0.00929	5.14	1
11031	1234678-HpCDD	35822-46-9	0.484 JB	0.0137	5.14	1
11031	OCDD	3268-87-9	2.07 JB	0.0143	10.3	1
11031	2378-TCDF	51207-31-9	0.0225 JBQ	0.00856	1.03	1
11031	12378-PeCDF	57117-41-6	0.102 JB	0.00605	5.14	1
11031	23478-PeCDF	57117-31-4	0.131 JB	0.00605	5.14	1
11031	123478-HxCDF	70648-26-9	0.0963 JBQ	0.00960	5.14	1
11031	123678-HxCDF	57117-44-9	0.0715 JB	0.00762	5.14	1
11031	123789-HxCDF	72918-21-9	0.0586 JBQ	0.0100	5.14	1
11031	234678-HxCDF	60851-34-5	0.0610 JB	0.00835	5.14	1
11031	1234678-HpCDF	67562-39-4	0.136 JB	0.00699	5.14	1
11031	1234789-HpCDF	55673-89-7	0.0624 JB	0.0154	5.14	1
11031	OCDF	39001-02-0	0.349 JB	0.0195	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	88	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	91	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	113	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	56	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-117-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA6-SB-2.0-3.0

LLI Sample # SW 6358409
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 12:15

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2016 SDG#: DX120-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-117-SA6-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA6-SB-2.0-3.0

LLI Sample # SW 6358409
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 12:15

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2016 SDG#: DX120-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11222001	08/13/2011 07:05	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11222001	08/10/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402A	08/05/2011 19:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-179-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SB-4.0-5.0

LLI Sample # SW 6358410
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 14:31

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2017 SDG#: DX120-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-179-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SB-4.0-5.0

LLI Sample # SW 6358410
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 14:31

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2017 SDG#: DX120-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0859	JB	0.0140	1.03	1
11031	12378-PeCDD	40321-76-4	0.713	JB	0.0352	5.16	1
11031	123478-HxCDD	39227-28-6	1.90	JB	0.0547	5.16	1
11031	123678-HxCDD	57653-85-7	7.88	B	0.0578	5.16	1
11031	123789-HxCDD	19408-74-3	3.11	JB	0.0528	5.16	1
11031	1234678-HpCDD	35822-46-9	214	B	0.107	5.16	1
11031	OCDD	3268-87-9	2,400	B	0.0617	10.3	1
11031	2378-TCDF	51207-31-9	0.126	JB	0.0284	1.03	1
11031	12378-PeCDF	57117-41-6	0.638	JB	0.0158	5.16	1
11031	23478-PeCDF	57117-31-4	0.626	JB	0.0159	5.16	1
11031	123478-HxCDF	70648-26-9	0.982	JB	0.0282	5.16	1
11031	123678-HxCDF	57117-44-9	1.11	JB	0.0255	5.16	1
11031	123789-HxCDF	72918-21-9	0.328	JB	0.0335	5.16	1
11031	234678-HxCDF	60851-34-5	1.80	JB	0.0273	5.16	1
11031	1234678-HpCDF	67562-39-4	22.3	B	0.0230	5.16	1
11031	1234789-HpCDF	55673-89-7	2.33	JB	0.0382	5.16	1
11031	OCDF	39001-02-0	53.8	B	0.0245	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-179-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SB-4.0-5.0

LLI Sample # SW 6358410
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 14:31

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2017 SDG#: DX120-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-179-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SB-4.0-5.0

LLI Sample # SW 6358410
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 14:31

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2017 SDG#: DX120-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11222001	08/13/2011 08:02	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11222001	08/10/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401B	08/17/2011 21:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-179-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SB-9.0-10.0

LLI Sample # SW 6358411
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 14:49

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2018 SDG#: DX120-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-179-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SB-9.0-10.0

LLI Sample # SW 6358411
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 14:49

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2018 SDG#: DX120-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0116 JBQ	0.0105	1.10	1
11031	12378-PeCDD	40321-76-4	0.0536 JB	0.0137	5.52	1
11031	123478-HxCDD	39227-28-6	0.0800 JB	0.0200	5.52	1
11031	123678-HxCDD	57653-85-7	0.311 JB	0.0201	5.52	1
11031	123789-HxCDD	19408-74-3	0.145 JB	0.0205	5.52	1
11031	1234678-HpCDD	35822-46-9	8.10 B	0.0271	5.52	1
11031	OCDD	3268-87-9	88.6 B	0.0269	11.0	1
11031	2378-TCDF	51207-31-9	0.0278 JBQ	0.0131	1.10	1
11031	12378-PeCDF	57117-41-6	0.0467 JB	0.00730	5.52	1
11031	23478-PeCDF	57117-31-4	0.0887 JBQ	0.00718	5.52	1
11031	123478-HxCDF	70648-26-9	0.0747 JB	0.0122	5.52	1
11031	123678-HxCDF	57117-44-9	0.0642 JB	0.0103	5.52	1
11031	123789-HxCDF	72918-21-9	0.0285 JB	0.0130	5.52	1
11031	234678-HxCDF	60851-34-5	0.0903 JB	0.0107	5.52	1
11031	1234678-HpCDF	67562-39-4	0.852 JB	0.00889	5.52	1
11031	1234789-HpCDF	55673-89-7	0.111 JBQ	0.0168	5.52	1
11031	OCDF	39001-02-0	1.98 JB	0.0200	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	54	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-179-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SB-9.0-10.0

LLI Sample # SW 6358411
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 14:49

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2018 SDG#: DX120-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-179-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SB-9.0-10.0

LLI Sample # SW 6358411
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 14:49

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2018 SDG#: DX120-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11222001	08/13/2011 08:58	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11222001	08/10/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11229162401B	08/17/2011 21:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB-SA6-SB-072711 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-072711

LLI Sample # WW 6358412
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 13:00

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2019 SDG#: DX120-19EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.697	U	0.697	1.96	1
10915	12378-PeCDD	40321-76-4	0.529	U	0.529	9.80	1
10915	123478-HxCDD	39227-28-6	0.369	JBQ	0.346	9.80	1
10915	123678-HxCDD	57653-85-7	0.344	U	0.344	9.80	1
10915	123789-HxCDD	19408-74-3	0.679	JBQ	0.360	9.80	1
10915	1234678-HpCDD	35822-46-9	2.95	JB	0.566	9.80	1
10915	OCDD	3268-87-9	5.10	JBQ	0.418	19.6	1
10915	2378-TCDF	51207-31-9	0.571	JQ	0.534	1.96	1
10915	12378-PeCDF	57117-41-6	0.377	JQ	0.292	9.80	1
10915	23478-PeCDF	57117-31-4	0.611	JBQ	0.254	9.80	1
10915	123478-HxCDF	70648-26-9	0.225	JBQ	0.210	9.80	1
10915	123678-HxCDF	57117-44-9	0.334	JBQ	0.216	9.80	1
10915	123789-HxCDF	72918-21-9	0.463	JB	0.213	9.80	1
10915	234678-HxCDF	60851-34-5	0.211	U	0.211	9.80	1
10915	1234678-HpCDF	67562-39-4	0.567	JBQ	0.215	9.80	1
10915	1234789-HpCDF	55673-89-7	0.260	U	0.260	9.80	1
10915	OCDF	39001-02-0	0.922	JB	0.542	19.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	74	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA6-SB-072711 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-072711

LLI Sample # WW 6358412
LLI Group # 1258703
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/27/2011 13:00

Submitted: 07/28/2011 09:25
Reported: 08/24/2011 19:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2019 SDG#: DX120-19EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11234001	08/23/2011 20:23	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	2	11234001	08/22/2011 09:30	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258703
Reported: 08/24/11 at 07:14 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11217162402A	Sample number(s): 6358398-6358409								
Moisture Content by 160.3					100		80-120		
Batch number: 11229162401B	Sample number(s): 6358410-6358411								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11222001	Sample number(s): 6358398-6358411								
2378-TCDD	0.0152 J	0.00790	1.00	ng/kg	92		67-158		
12378-PeCDD	0.0249 J	0.00760	5.00	ng/kg	96		70-142		
123478-HxCDD	0.0259 J	0.00710	5.00	ng/kg	100		70-164		
123678-HxCDD	0.0288 J	0.00730	5.00	ng/kg	98		76-134		
123789-HxCDD	0.0352 J	0.00680	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.375 J	0.00860	5.00	ng/kg	99		70-140		
OCDD	1.08 J	0.00820	10.0	ng/kg	100		78-144		
2378-TCDF	0.0165 J	0.00750	1.00	ng/kg	102		75-158		
2378-TCDF-Conf	0.0250 U	0.0250	1.00	ng/kg	102		75-158		
12378-PeCDF	0.0262 J	0.00450	5.00	ng/kg	99		80-134		
23478-PeCDF	0.0487 J	0.00460	5.00	ng/kg	100		68-160		
123478-HxCDF	0.0276 J	0.00520	5.00	ng/kg	105		72-134		
123678-HxCDF	0.0193 J	0.00440	5.00	ng/kg	105		84-130		
123789-HxCDF	0.0495 J	0.00530	5.00	ng/kg	105		78-130		
234678-HxCDF	0.0255 J	0.00500	5.00	ng/kg	107		70-156		
1234678-HpCDF	0.0662 J	0.00400	5.00	ng/kg	102		82-122		
1234789-HpCDF	0.0516 J	0.00740	5.00	ng/kg	104		78-138		
OCDF	0.166 J	0.0110	10.0	ng/kg	106		63-170		
Batch number: 11234001	Sample number(s): 6358412								
2378-TCDD	0.926 U	0.926	2.00	pg/l	106		67-158		
12378-PeCDD	0.858 J	0.735	10.0	pg/l	103		70-142		
123478-HxCDD	0.765 J	0.508	10.0	pg/l	107		70-164		
123678-HxCDD	0.856 J	0.491	10.0	pg/l	102		76-134		
123789-HxCDD	0.876 J	0.490	10.0	pg/l	104		64-162		
1234678-HpCDD	2.80 J	0.756	10.0	pg/l	103		70-140		
OCDD	6.56 J	0.546	20.0	pg/l	106		78-144		
2378-TCDF	0.726 U	0.726	2.00	pg/l	101		75-158		
12378-PeCDF	0.385 U	0.385	10.0	pg/l	102		80-134		
23478-PeCDF	1.02 J	0.340	10.0	pg/l	100		68-160		
123478-HxCDF	0.547 J	0.290	10.0	pg/l	101		72-134		
123678-HxCDF	0.489 J	0.286	10.0	pg/l	102		84-130		
123789-HxCDF	0.588 J	0.284	10.0	pg/l	102		78-130		
234678-HxCDF	0.562 J	0.272	10.0	pg/l	101		70-156		
1234678-HpCDF	0.632 J	0.277	10.0	pg/l	101		82-122		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258703
Reported: 08/24/11 at 07:14 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
1234789-HpCDF	0.512	J	0.318	10.0	pg/l	106		78-138		
OCDF	2.84	J	0.747	20.0	pg/l	107		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11217162402A	Sample number(s): 6358398-6358409					BKG: P358381			
Moisture Content by 160.3						2.7	2.8	6	20
Batch number: 11229162401B	Sample number(s): 6358410-6358411					BKG: P361772			
Moisture Content by 160.3						9.2	9.4	2	20
Batch number: 11222001	Sample number(s): 6358398-6358411 UNSPK: 6358398								
2378-TCDD	64*	63*	67-158	1	25				
12378-PeCDD	97	95	70-142	0	25				
123478-HxCDD	98	97	70-164	1	25				
123678-HxCDD	100	97	76-134	1	25				
123789-HxCDD	101	98	64-162	1	25				
1234678-HpCDD	133	99	70-140	11	25				
OCDD	213 (2)	-17 (2)	78-144	22	25				
2378-TCDF	93	95	75-158	3	25				
2378-TCDF-Conf	93	95	75-158	3	25				
12378-PeCDF	104	98	80-134	3	25				
23478-PeCDF	99	98	68-160	1	25				
123478-HxCDF	105	105	72-134	2	25				
123678-HxCDF	105	104	84-130	1	25				
123789-HxCDF	105	105	78-130	2	25				
234678-HxCDF	104	105	70-156	2	25				
1234678-HpCDF	117	107	82-122	5	25				
1234789-HpCDF	104	103	78-138	2	25				
OCDF	180*	110	63-170	36*	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11222001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6358398	84	73	78	78	80	88
6358399	78	68	73	74	74	80
6358400	102	85	91	91	92	107
6358401	91	78	83	83	83	87
6358402	83	72	78	77	77	80
6358403	81	71	67	68	78	83
6358404	78	64	63	76	71	68

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258703
Reported: 08/24/11 at 07:14 PM

Surrogate Quality Control

6358405	70	60	52	64	71	66
6358406	68	57	60	73	67	61
6358407	79	67	72	79	76	72
6358408	87	73	66	76	80	81
6358409	88	74	72	87	79	76
6358410	82	71	76	83	76	76
6358411	78	66	68	80	77	77
Blank	84	75	79	92	84	88
MS	78	68	73	74	74	80
MSD	102	85	91	91	92	107
OPR	70	67	68	77	72	67

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6358398	81	85	79	79	83	82
6358399	74	72	69	75	77	74
6358400	96	96	97	96	96	96
6358401	78	75	57	86	85	84
6358402	73	69	58	80	79	77
6358403	65	69	58	79	79	77
6358404	88	53	43	76	78	78
6358405	78	53	44	71	77	73
6358406	91	51	41	69	76	74
6358407	86	64	54	76	81	81
6358408	85	72	65	81	86	84
6358409	113	64	56	90	91	91
6358410	90	68	64	83	83	80
6358411	100	63	54	75	85	84
Blank	118	80	73	89	93	93
MS	74	72	69	75	77	74
MSD	96	96	97	96	96	96
OPR	99	70	66	80	84	81

Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6358398	84	87	82	71	72	
6358399	77	76	74	66	66	
6358400	99	99	103	84	83	
6358401	85	81	62		76	95
6358402	81	73	62		71	88
6358403	80	73	62		71	79
6358404	79	73	63	60	72	
6358405	80	73	65	57	68	
6358406	77	75	64	53	65	
6358407	81	76	67	67	73	
6358408	85	84	78	72	75	
6358409	93	94	88	68	82	
6358410	84	83	81	69	75	
6358411	86	84	77	65	72	
Blank	97	101	97	67	83	77
MS	77	76	74	66	66	66
MSD	99	99	103	84	83	84
OPR	82	88	87	58	72	58

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258703
Reported: 08/24/11 at 07:14 PM

Surrogate Quality Control

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11234001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
Limits:	28-130	23-140	17-157	24-169	24-185	24-169
6358412	70	72	72	71	74	87
Blank	72	72	70	71	75	86
OPR	75	81	77	79	80	90
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6358412	72	76	74	71	75	77
Blank	75	78	79	69	72	77
OPR	84	88	92	80	82	84
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6358412	75	77	75	71	71	
Blank	76	79	80	76	71	
OPR	83	91	94	77	79	77
Limits:	28-130	23-140	17-157	24-169	24-185	22-152

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1255703 Sample# 6355398-412

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 6330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-009-SA6-SS-0.0-0.5MS	7/27/11	0820	SOIL	NONE	2-SS Sleeve			X	X																	
SL-009-SA6-SS-0.0-0.5MS	7/27/11	0820	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X										MS/MSD
SL-017-SA6-SS-0.0-0.5	7/27/11	0914	SOIL	NONE	1-SS Sleeve			X	X																	MS/MSD
SL-017-SA6-SS-0.0-0.5	7/27/11	0914	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X									
SL-028-SA6-SS.0.0-0.5	7/27/11	0730	SOIL	NONE	1-SS Sleeve			X	X													X	X	X		
SL-028-SA6-SS.0.0-0.5	7/27/11	0730	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		X	X										
DUP09-SA6-QC-072711	7/27/11	0828	SOIL	NONE	1-SS Sleeve			X	X																	
DUP09-SA6-QC-072711	7/27/11	0828	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		X	X										

Relinquished by: (Signature) — Date/Time: 07/27/2011 / 1600 — Received for Laboratory by: (Signature)

Received by: (Signature) — Date/Time: 7/28/11 — Airbill No.(s): 8754 3341 0324, 0299,0288,0303

Laboratory: Lancaster Laboratories, Inc.

acct# 13013 Cap# 1255703 sample# 6355396-412

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									VOCs	SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/SB7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-069-SA6-SB-4.5	7/27/11	0830	SOIL	NONE	2-Encores										X										
SL-069-SA6-SB-4.0-5.0	7/27/11	0835	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X		X						X	X	X	
SL-069-SA6-SB-9.5	7/27/11	0840	SOIL	NONE	2-Encores										X										
SL-069-SA6-SB-9.0-10.0	7/27/11	0845	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-076-SA6-SB-2.5	7/27/11	1100	SOIL	NONE	2-Encores										X										
SL-076-SA6-SB-2.0-3.0	7/27/11	1105	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-089-SA6-SB-4.5	7/27/11	0945	SOIL	NONE	2-Encores										X										
SL-089-SA6-SB-4.0-5.0	7/27/11	0950	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-089-SA6-SB-9.5	7/27/11	0955	SOIL	NONE	2-Encores										X										
SL-089-SA6-SB-9.0-10.0	7/27/11	1000	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-117-SA6-SB-2.5	7/27/11	1210	SOIL	NONE	2-Encores										X										
SL-117-SA6-SB-2.0-3.0	7/27/11	1215	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-179-SA5DN-SB-4.5	7/27/11	1432	SOIL	NONE	2-Encores										X										
SL-179-SA5DN-SB-4.0-5.0	7/27/11	1431	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	
SL-179-SA5DN-SB-9.5	7/27/11	1450	SOIL	NONE	2-Encores																				
SL-179-SA5DN-SB-9.0-10.0	7/27/11	1449	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	
TB-072711	7/27/11	0800	WATER	NONE	2-40mL Vials										X										

Relinquished by: (*Signature*) — Date/Time: 07/27/2011 / 1600 — Received for Laboratory by: (*Signature*)

Received by: (*Signature*) — Date/Time: 7/27/11 1975 — Airbill No.(s): 8754 3341 0324, 0299,0288,0303

Laboratory: Lancaster Laboratories, Inc.

acct# 13013 Cap# 1355703 Sample# 6355395-412

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB-SA6-SB-072711	07.27.11	1300	WATER	NONE	10-1 liter ambers			X	X	X								X			X	X		X			
EB-SA6-SB-072711	07.27.11	1300	WATER	NONE	1-500 mL poly		X				X	X	X														
EB-SA6-SB-072711	07.27.11	1300	WATER	HNO3	1-500 mL poly	X																					
EB-SA6-SB-072711	07.27.11	1300	WATER	NaOH	1-500 mL glass																						
EB-SA6-SB-072711	07.27.11	1300	WATER	NONE	1-250 mL glass																		X				
EB-SA6-SB-072711	07.27.11	1300	WATER	HCl	11-40 mL vials															X							
EB-SA6-SB-072711	07.27.11	1300	WATER	NONE	4-40 mL vials										X	X	X									X	

Relinquished by: (Signature) — Date/Time: 07/27/2011 / 1600 — Received for Laboratory by: (Signature)

Received by: (Signature) — Date/Time: 7/28/11 0925 — Airbill No.(s): 8754 3341 0324, 0299,0288,0303

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 24, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/29/2011
Group Number: 1258927
SDG: DE211
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-172-SA5DN-SB-4.0-5.0 Soil	6359557
SL-172-SA5DN-SB-9.0-10.0 Soil	6359558
SL-183-SA5DN-SB-4.0-5.0 Soil	6359559
SL-183-SA5DN-SB-4.0-5.0MS Soil	6359560
SL-183-SA5DN-SB-4.0-5.0MSD Soil	6359561
SL-183-SA5DN-SB-4.0-5.0DUP Soil	6359562
SL-183-SA5DN-SB-9.0-10.0 Soil	6359563
DUP21-SA5DN-QC-072811 Soil	6359564
SL-068-SA6-SB-4.0-5.0 Soil	6359565
SL-068-SA6-SB-19.0-20.0 Soil	6359566
SL-070-SA6-SB-4.0-5.0 Soil	6359567
SL-070-SA6-SB-19.0-20.0 Soil	6359568
SL-090-SA6-SB-3.0-4.0 Soil	6359569
TB-072811 Water	6359570

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Chad A. Moline
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-172-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359557
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 12:04

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1101 SDG#: DE211-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	28	J	19	370	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-172-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359557
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 12:04

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1101 SDG#: DE211-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.80	J	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.83	J	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	1.4	J	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	1.7	J	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	3.0		0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	1.7	J	0.75	1.9	1
10138	Pyrene	129-00-0	2.4		0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	1.1	J	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,500		6.45	21.3	1
07914	Boron	7440-42-8	3.65	J	0.384	5.33	1
01650	Calcium	7440-70-2	9,410		2.67	21.3	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-172-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359557
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 12:04

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1101 SDG#: DE211-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	31,100		5.57	42.7	2
01656	Lithium	7439-93-2	29.7		0.66	2.1	1
01657	Magnesium	7439-95-4	6,910		0.469	10.7	1
06958	Manganese	7439-96-5	403		0.0384	0.533	1
10145	Phosphorus	7723-14-0	440		0.373	10.7	1
01662	Potassium	7440-09-7	4,630		12.1	53.3	1
01667	Sodium	7440-23-5	127		6.35	107	1
07968	Strontium	7440-24-6	30.4		0.0267	0.533	1
06969	Tin	7440-31-5	2.66	J	0.341	10.7	1
06970	Titanium	7440-32-6	1,330		0.0757	1.07	1
10146	Zirconium	7440-67-7	6.01		0.491	5.33	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.127	J	0.0812	0.220	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.16		0.0878	0.439	2
06126	Barium	7440-39-3	125		0.116	0.439	2
06127	Beryllium	7440-41-7	0.747		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.277		0.0483	0.110	2
06131	Chromium	7440-47-3	26.0		0.132	0.439	2
06132	Cobalt	7440-48-4	9.04		0.0220	0.110	2
06133	Copper	7440-50-8	14.7		0.0878	0.439	2
06135	Lead	7439-92-1	8.39		0.0112	0.220	2
06138	Molybdenum	7439-98-7	0.725		0.0549	0.110	2
06139	Nickel	7440-02-0	20.1		0.110	0.439	2
06141	Selenium	7782-49-2	0.121	J	0.0637	0.439	2
06142	Silver	7440-22-4	0.0572	J	0.0156	0.110	2
06145	Thallium	7440-28-0	0.316		0.0329	0.110	2
06148	Vanadium	7440-62-2	49.9		0.0242	0.110	2
06149	Zinc	7440-66-6	66.0		0.615	3.29	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0159	J	0.0076	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.0		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43	J	0.23	1.2	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-172-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359557
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 12:04

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1101 SDG#: DE211-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.08	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.7	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11220SLD026	08/18/2011 09:20	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11221SLC026	08/18/2011 01:03	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11221SLC026	08/10/2011 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11220SLD026	08/09/2011 06:45	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112210019A	08/12/2011 04:01	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112210019A	08/09/2011 19:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	112145708006	08/03/2011 20:52	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708006	08/03/2011 20:52	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708006	08/03/2011 20:52	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112145708006	08/07/2011 23:13	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	112145708006	08/03/2011 20:52	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708006	08/03/2011 20:52	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708006	08/03/2011 20:52	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112145708006	08/03/2011 20:52	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708006	08/03/2011 20:52	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112145708006	08/03/2011 20:52	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112145708006	08/03/2011 20:52	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708006	08/03/2011 20:52	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112145708006	08/03/2011 20:52	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112145708006	08/03/2011 20:52	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112141026002A	08/03/2011 21:15	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026002A	08/03/2011 21:15	David K Beck	2
06126	Barium	SW-846 6020	1	112141026002D	08/03/2011 21:15	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026002A	08/03/2011 21:15	David K Beck	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-172-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359557
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 12:04

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1101 SDG#: DE211-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112141026002A	08/03/2011 21:15	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026002A	08/03/2011 21:15	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026002A	08/03/2011 21:15	David K Beck	2
06133	Copper	SW-846 6020	1	112141026002A	08/03/2011 21:15	David K Beck	2
06135	Lead	SW-846 6020	1	112141026002A	08/03/2011 21:15	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026002C	08/03/2011 21:15	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026002A	08/03/2011 21:15	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026002B	08/03/2011 21:15	David K Beck	2
06142	Silver	SW-846 6020	1	112141026002A	08/03/2011 21:15	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026002A	08/03/2011 21:15	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026002A	08/03/2011 21:15	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026002A	08/03/2011 21:15	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711003	08/03/2011 19:18	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708006	08/03/2011 10:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026002	08/03/2011 10:42	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711003	08/03/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11217621201A	08/05/2011 12:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11216284202A	08/05/2011 20:48	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11227243201A	08/16/2011 14:46	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11217621201A	08/05/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11216284202A	08/04/2011 18:10	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11215039402A	08/03/2011 10:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11227243201A	08/15/2011 19:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402B	08/05/2011 19:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-172-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5DN-SB-9.0-10.0

LLI Sample # SW 6359558
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 12:09

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1102 SDG#: DE211-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200	1
04688	4-Chloroaniline	106-47-8	79	U	79	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	39	U	39	200	1
04688	4-Methylphenol	106-44-5	39	U	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	39	U	39	200	1
04688	4-Nitroaniline	100-01-6	79	U	79	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	590	1
04688	Phenol	108-95-2	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-172-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5DN-SB-9.0-10.0

LLI Sample # SW 6359558
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 12:09

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1102 SDG#: DE211-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0	1
10138	Anthracene	120-12-7	4.3		0.39	2.0	1
10138	Benzo(a)anthracene	56-55-3	7.4		0.79	2.0	1
10138	Benzo(a)pyrene	50-32-8	6.4		0.79	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	8.3		0.79	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	2.8		0.79	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	6.0		0.79	2.0	1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21	1
10138	Di-n-butylphthalate	84-74-2	8.3	J	7.1	21	1
10138	Chrysene	218-01-9	7.8		0.39	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	2.9		0.79	2.0	1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21	1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	15	J	7.1	21	1
10138	Fluoranthene	206-44-0	10		0.79	2.0	1
10138	Fluorene	86-73-7	1.8	J	0.79	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.2		0.79	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0	1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0	1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0	1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0	1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21	1
10138	Phenanthrene	85-01-8	6.4		0.79	2.0	1
10138	Pyrene	129-00-0	9.5		0.79	2.0	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	1.2	J	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,600		7.15	23.6	1
07914	Boron	7440-42-8	4.51	J	0.426	5.91	1
01650	Calcium	7440-70-2	91,000		14.8	118	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-172-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5DN-SB-9.0-10.0

LLI Sample # SW 6359558
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 12:09

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1102 SDG#: DE211-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	24,700		3.09	23.6	1
01656	Lithium	7439-93-2	23.6		0.73	2.4	1
01657	Magnesium	7439-95-4	6,610		0.520	11.8	1
06958	Manganese	7439-96-5	316		0.0426	0.591	1
10145	Phosphorus	7723-14-0	417		0.414	11.8	1
01662	Potassium	7440-09-7	2,980		13.4	59.1	1
01667	Sodium	7440-23-5	156		7.03	118	1
07968	Strontium	7440-24-6	102		0.0296	0.591	1
06969	Tin	7440-31-5	2.21	J	0.378	11.8	1
06970	Titanium	7440-32-6	1,130		0.0839	1.18	1
10146	Zirconium	7440-67-7	5.58	J	0.544	5.91	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.102	J	0.0875	0.236	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.93		0.0946	0.473	2
06126	Barium	7440-39-3	102		0.125	0.473	2
06127	Beryllium	7440-41-7	0.596		0.0189	0.118	2
06128	Cadmium	7440-43-9	0.442		0.0520	0.118	2
06131	Chromium	7440-47-3	25.8		0.142	0.473	2
06132	Cobalt	7440-48-4	7.53		0.0236	0.118	2
06133	Copper	7440-50-8	12.3		0.0946	0.473	2
06135	Lead	7439-92-1	7.28		0.0121	0.236	2
06138	Molybdenum	7439-98-7	0.656		0.0591	0.118	2
06139	Nickel	7440-02-0	17.2		0.118	0.473	2
06141	Selenium	7782-49-2	0.110	J	0.0686	0.473	2
06142	Silver	7440-22-4	0.0470	J	0.0168	0.118	2
06145	Thallium	7440-28-0	0.244		0.0355	0.118	2
06148	Vanadium	7440-62-2	49.7		0.0260	0.118	2
06149	Zinc	7440-66-6	53.1		0.662	3.55	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0114	J	0.0082	0.116	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.0		0.95	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.29	J	0.24	1.2	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-172-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5DN-SB-9.0-10.0

LLI Sample # SW 6359558
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 12:09

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1102 SDG#: DE211-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.20	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	15.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11220SLD026	08/18/2011 09:46	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11221SLC026	08/18/2011 01:36	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11221SLC026	08/10/2011 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11220SLD026	08/09/2011 06:45	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112210019A	08/12/2011 04:19	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112210019A	08/09/2011 19:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	112145708006	08/03/2011 21:04	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708006	08/03/2011 21:04	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708006	08/07/2011 23:17	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	112145708006	08/03/2011 21:04	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112145708006	08/03/2011 21:04	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708006	08/03/2011 21:04	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708006	08/03/2011 21:04	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112145708006	08/03/2011 21:04	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708006	08/03/2011 21:04	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112145708006	08/03/2011 21:04	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112145708006	08/03/2011 21:04	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708006	08/03/2011 21:04	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112145708006	08/03/2011 21:04	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112145708006	08/03/2011 21:04	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112141026002A	08/03/2011 21:18	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026002A	08/03/2011 21:18	David K Beck	2
06126	Barium	SW-846 6020	1	112141026002D	08/03/2011 21:18	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026002A	08/03/2011 21:18	David K Beck	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-172-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5DN-SB-9.0-10.0

LLI Sample # SW 6359558
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 12:09

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1102 SDG#: DE211-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112141026002A	08/03/2011 21:18	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026002A	08/03/2011 21:18	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026002A	08/03/2011 21:18	David K Beck	2
06133	Copper	SW-846 6020	1	112141026002A	08/03/2011 21:18	David K Beck	2
06135	Lead	SW-846 6020	1	112141026002A	08/03/2011 21:18	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026002C	08/03/2011 21:18	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026002A	08/03/2011 21:18	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026002B	08/03/2011 21:18	David K Beck	2
06142	Silver	SW-846 6020	1	112141026002A	08/03/2011 21:18	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026002A	08/03/2011 21:18	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026002A	08/03/2011 21:18	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026002A	08/03/2011 21:18	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711003	08/03/2011 19:19	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708006	08/03/2011 10:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026002	08/03/2011 10:42	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711003	08/03/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11217621201A	08/05/2011 13:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11216284202A	08/05/2011 21:34	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11227243201A	08/16/2011 15:00	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11217621201A	08/05/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11216284202A	08/04/2011 18:10	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11215039402A	08/03/2011 10:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11227243201A	08/15/2011 19:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402B	08/05/2011 19:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359559
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1103 SDG#: DE211-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-183-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359559
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1103 SDG#: DE211-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,000		6.53	21.6	1
07914	Boron	7440-42-8	5.10	J	0.389	5.40	1
01650	Calcium	7440-70-2	16,500		2.70	21.6	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-183-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359559
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1103 SDG#: DE211-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	32,600		5.63	43.2	2
01656	Lithium	7439-93-2	30.7		0.67	2.2	1
01657	Magnesium	7439-95-4	7,770		0.475	10.8	1
06958	Manganese	7439-96-5	387		0.0389	0.540	1
10145	Phosphorus	7723-14-0	281		0.378	10.8	1
01662	Potassium	7440-09-7	3,800		12.2	54.0	1
01667	Sodium	7440-23-5	144		6.42	108	1
07968	Strontium	7440-24-6	36.1		0.0270	0.540	1
06969	Tin	7440-31-5	2.68	J	0.345	10.8	1
06970	Titanium	7440-32-6	1,330		0.0766	1.08	1
10146	Zirconium	7440-67-7	6.14		0.496	5.40	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.167	J	0.0791	0.214	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.65		0.0855	0.428	2
06126	Barium	7440-39-3	134		0.113	0.428	2
06127	Beryllium	7440-41-7	0.841		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.272		0.0470	0.107	2
06131	Chromium	7440-47-3	31.9		0.128	0.428	2
06132	Cobalt	7440-48-4	10.3		0.0214	0.107	2
06133	Copper	7440-50-8	15.6		0.0855	0.428	2
06135	Lead	7439-92-1	9.43		0.0109	0.214	2
06138	Molybdenum	7439-98-7	0.557		0.0534	0.107	2
06139	Nickel	7440-02-0	23.6		0.107	0.428	2
06141	Selenium	7782-49-2	0.171	J	0.0620	0.428	2
06142	Silver	7440-22-4	0.0438	J	0.0152	0.107	2
06145	Thallium	7440-28-0	0.358		0.0321	0.107	2
06148	Vanadium	7440-62-2	62.0		0.0235	0.107	2
06149	Zinc	7440-66-6	70.1		0.599	3.21	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0120	J	0.0078	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.6		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	J	0.23	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359559
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1103 SDG#: DE211-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.20	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11220SLD026	08/18/2011 08:05	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11221SLC026	08/17/2011 23:25	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11221SLC026	08/10/2011 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11220SLD026	08/09/2011 06:45	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112210019A	08/12/2011 04:38	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112210019A	08/09/2011 19:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	112145708006	08/03/2011 20:25	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708006	08/03/2011 20:25	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708006	08/03/2011 20:25	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112145708006	08/07/2011 22:51	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	112145708006	08/03/2011 20:25	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708006	08/03/2011 20:25	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708006	08/03/2011 20:25	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112145708006	08/03/2011 20:25	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708006	08/03/2011 20:25	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112145708006	08/03/2011 20:25	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112145708006	08/03/2011 20:25	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708006	08/03/2011 20:25	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112145708006	08/03/2011 20:25	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112145708006	08/03/2011 20:25	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112141026002A	08/03/2011 20:56	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026002A	08/03/2011 20:56	David K Beck	2
06126	Barium	SW-846 6020	1	112141026002D	08/03/2011 20:56	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026002A	08/03/2011 20:56	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359559
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1103 SDG#: DE211-03BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112141026002A	08/03/2011 20:56	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026002A	08/03/2011 20:56	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026002A	08/03/2011 20:56	David K Beck	2
06133	Copper	SW-846 6020	1	112141026002A	08/03/2011 20:56	David K Beck	2
06135	Lead	SW-846 6020	1	112141026002A	08/03/2011 20:56	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026002C	08/03/2011 20:56	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026002A	08/03/2011 20:56	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026002B	08/03/2011 20:56	David K Beck	2
06142	Silver	SW-846 6020	1	112141026002A	08/03/2011 20:56	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026002A	08/03/2011 20:56	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026002A	08/03/2011 20:56	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026002A	08/03/2011 20:56	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711003	08/03/2011 19:20	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708006	08/03/2011 10:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026002	08/03/2011 10:42	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711003	08/03/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11217621201A	08/05/2011 12:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11216284202A	08/05/2011 19:39	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11227243201A	08/16/2011 15:06	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11217621201A	08/05/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11216284202A	08/04/2011 18:10	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11215039402A	08/03/2011 10:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11227243201A	08/15/2011 19:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402B	08/05/2011 19:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-183-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359560
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1103 SDG#: DE211-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	2,000		19	190	1
04688	Acenaphthylene	208-96-8	2,100		19	190	1
04688	Aniline	62-53-3	1,400		190	560	1
04688	Anthracene	120-12-7	2,200		19	190	1
04688	Benzidine	92-87-5	2,400	J	1,300	3,700	1
04688	Benzo(a)anthracene	56-55-3	2,000		19	190	1
04688	Benzo(a)pyrene	50-32-8	2,000		19	190	1
04688	Benzo(b)fluoranthene	205-99-2	2,000		19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	2,200		19	190	1
04688	Benzo(k)fluoranthene	207-08-9	2,200		19	190	1
04688	Benzoic acid	65-85-0	830		190	560	1
04688	Benzyl alcohol	100-51-6	1,700		190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	2,200		19	190	1
04688	Butylbenzylphthalate	85-68-7	2,000		19	190	1
04688	Di-n-butylphthalate	84-74-2	2,200		19	190	1
04688	Carbazole	86-74-8	2,100		19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	2,100		37	190	1
04688	4-Chloroaniline	106-47-8	1,300		75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,900		19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,800		19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,800		19	190	1
04688	2-Chloronaphthalene	91-58-7	1,800		19	190	1
04688	2-Chlorophenol	95-57-8	1,700		19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		37	190	1
04688	Chrysene	218-01-9	1,700		19	190	1
04688	Dibenz(a,h)anthracene	53-70-3	2,200		19	190	1
04688	Dibenzofuran	132-64-9	1,900		19	190	1
04688	1,2-Dichlorobenzene	95-50-1	1,600		19	190	1
04688	1,3-Dichlorobenzene	541-73-1	1,600		19	190	1
04688	1,4-Dichlorobenzene	106-46-7	1,700		19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,200		110	370	1
04688	2,4-Dichlorophenol	120-83-2	2,000		19	190	1
04688	Diethylphthalate	84-66-2	1,900		19	190	1
04688	2,4-Dimethylphenol	105-67-9	1,900		37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	Dimethylphthalate	131-11-3	1,900		19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,800		190	560	1
04688	2,4-Dinitrophenol	51-28-5	2,300		370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	2,100		37	190	1
04688	2,6-Dinitrotoluene	606-20-2	2,200		19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	2,200		19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,100		19	370	1
04688	Fluoranthene	206-44-0	2,100		19	190	1
04688	Fluorene	86-73-7	2,000		19	190	1
04688	Hexachlorobenzene	118-74-1	2,100		19	190	1
04688	Hexachlorobutadiene	87-68-3	1,800		75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	2,000		190	560	1
04688	Hexachloroethane	67-72-1	1,700		19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,400		19	190	1
04688	Isophorone	78-59-1	1,900		19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-183-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359560
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1103 SDG#: DE211-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,800	19	190	1
04688	2-Methylnaphthalene	91-57-6	1,900	19	190	1
04688	2-Methylphenol	95-48-7	1,800	37	190	1
04688	4-Methylphenol	106-44-5	1,700	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,900	19	190	1
04688	2-Nitroaniline	88-74-4	2,000	19	190	1
04688	3-Nitroaniline	99-09-2	1,800	37	190	1
04688	4-Nitroaniline	100-01-6	1,600	75	190	1
04688	Nitrobenzene	98-95-3	2,000	19	190	1
04688	2-Nitrophenol	88-75-5	1,800	19	190	1
04688	4-Nitrophenol	100-02-7	1,800	190	560	1
04688	N-Nitrosodimethylamine	62-75-9	1,900	37	190	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,800	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	2,200	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	2,100	19	190	1
04688	Pentachlorophenol	87-86-5	1,900	190	560	1
04688	Phenanthrene	85-01-8	2,200	19	190	1
04688	Phenol	108-95-2	1,700	19	190	1
04688	Pyrene	129-00-0	1,900	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	2,100	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	2,000	37	190	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	35	0.75	1.9	1
10138	Acenaphthylene	208-96-8	35	0.37	1.9	1
10138	Anthracene	120-12-7	36	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	38	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	33	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	43	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	18	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	33	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	47	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	48	6.7	20	1
10138	Chrysene	218-01-9	38	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	23	0.75	1.9	1
10138	Diethylphthalate	84-66-2	32	6.7	20	1
10138	Dimethylphthalate	131-11-3	39	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	44	6.7	20	1
10138	Fluoranthene	206-44-0	39	0.75	1.9	1
10138	Fluorene	86-73-7	38	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	21	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	33	0.75	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-183-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359560
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1103 SDG#: DE211-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	33		0.75	1.9	1
10138	Naphthalene	91-20-3	34		0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	35		0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	41		6.7	20	1
10138	Phenanthrene	85-01-8	36		0.75	1.9	1
10138	Pyrene	129-00-0	39		0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	16		0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	17		0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	38,600		6.47	21.4	1
07914	Boron	7440-42-8	206		0.385	5.34	1
01650	Calcium	7440-70-2	15,700		2.67	21.4	1
01654	Iron	7439-89-6	35,400		5.58	42.8	2
01656	Lithium	7439-93-2	141		0.66	2.1	1
01657	Magnesium	7439-95-4	8,580		0.470	10.7	1
06958	Manganese	7439-96-5	448		0.0385	0.534	1
10145	Phosphorus	7723-14-0	375		0.374	10.7	1
01662	Potassium	7440-09-7	5,350		12.1	53.4	1
01667	Sodium	7440-23-5	1,170		6.36	107	1
07968	Strontium	7440-24-6	137		0.0267	0.534	1
06969	Tin	7440-31-5	345		0.342	10.7	1
06970	Titanium	7440-32-6	1,600		0.0759	1.07	1
10146	Zirconium	7440-67-7	104		0.492	5.34	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.562		0.0822	0.222	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.6		0.0889	0.444	2
06126	Barium	7440-39-3	148		0.118	0.444	2
06127	Beryllium	7440-41-7	1.57		0.0178	0.111	2
06128	Cadmium	7440-43-9	1.42		0.0489	0.111	2
06131	Chromium	7440-47-3	41.9		0.133	0.444	2
06132	Cobalt	7440-48-4	64.1		0.0222	0.111	2
06133	Copper	7440-50-8	26.2		0.0889	0.444	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359560
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1103 SDG#: DE211-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	13.0	0.0113	0.222	2
06138	Molybdenum	7439-98-7	10.5	0.0556	0.111	2
06139	Nickel	7440-02-0	34.8	0.111	0.444	2
06141	Selenium	7782-49-2	2.24	0.0645	0.444	2
06142	Silver	7440-22-4	10.9	0.0158	0.111	2
06145	Thallium	7440-28-0	0.802	0.0333	0.111	2
06148	Vanadium	7440-62-2	75.1	0.0244	0.111	2
06149	Zinc	7440-66-6	81.9	0.622	3.33	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.189	0.0075	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	13.7	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	532	10.1	33.7	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	42.5	1.1	5.6	5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11220SLD026	08/18/2011 08:30	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11221SLC026	08/17/2011 23:57	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11221SLC026	08/10/2011 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11220SLD026	08/09/2011 06:45	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112210019A	08/12/2011 04:56	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112210019A	08/09/2011 19:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	112145708006	08/03/2011 20:38	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708006	08/03/2011 20:38	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359560
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1103 SDG#: DE211-03MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	112145708006	08/03/2011 20:38	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112145708006	08/07/2011 23:02	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	112145708006	08/03/2011 20:38	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708006	08/03/2011 20:38	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708006	08/03/2011 20:38	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112145708006	08/03/2011 20:38	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708006	08/03/2011 20:38	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112145708006	08/03/2011 20:38	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112145708006	08/03/2011 20:38	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708006	08/03/2011 20:38	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112145708006	08/03/2011 20:38	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112145708006	08/03/2011 20:38	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112141026002A	08/03/2011 21:05	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026002A	08/03/2011 21:05	David K Beck	2
06126	Barium	SW-846 6020	1	112141026002D	08/03/2011 21:05	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026002A	08/03/2011 21:05	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026002A	08/03/2011 21:05	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026002A	08/03/2011 21:05	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026002A	08/03/2011 21:05	David K Beck	2
06133	Copper	SW-846 6020	1	112141026002A	08/03/2011 21:05	David K Beck	2
06135	Lead	SW-846 6020	1	112141026002A	08/03/2011 21:05	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026002C	08/03/2011 21:05	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026002A	08/03/2011 21:05	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026002B	08/03/2011 21:05	David K Beck	2
06142	Silver	SW-846 6020	1	112141026002A	08/03/2011 21:05	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026002A	08/03/2011 21:05	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026002A	08/03/2011 21:05	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026002A	08/03/2011 21:05	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711003	08/03/2011 19:23	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708006	08/03/2011 10:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026002	08/03/2011 10:42	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711003	08/03/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11217621201A	08/05/2011 12:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11216284202A	08/05/2011 20:25	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11227243201A	08/16/2011 15:26	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11217621201A	08/05/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11216284202A	08/04/2011 18:10	Alex M Rittle	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11227243201A	08/15/2011 19:50	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402B	08/05/2011 19:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359561
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1103 SDG#: DE211-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		19	190	1
04688	Acenaphthylene	208-96-8	1,800		19	190	1
04688	Aniline	62-53-3	1,300		190	560	1
04688	Anthracene	120-12-7	1,900		19	190	1
04688	Benzidine	92-87-5	2,600	J	1,300	3,700	1
04688	Benzo(a)anthracene	56-55-3	1,700		19	190	1
04688	Benzo(a)pyrene	50-32-8	1,800		19	190	1
04688	Benzo(b)fluoranthene	205-99-2	1,900		19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	2,000		19	190	1
04688	Benzo(k)fluoranthene	207-08-9	1,800		19	190	1
04688	Benzoic acid	65-85-0	670		190	560	1
04688	Benzyl alcohol	100-51-6	1,600		190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		19	190	1
04688	Butylbenzylphthalate	85-68-7	1,900		19	190	1
04688	Di-n-butylphthalate	84-74-2	1,800		19	190	1
04688	Carbazole	86-74-8	1,800		19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		37	190	1
04688	4-Chloroaniline	106-47-8	1,100		75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		19	190	1
04688	2-Chloronaphthalene	91-58-7	1,700		19	190	1
04688	2-Chlorophenol	95-57-8	1,700		19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		37	190	1
04688	Chrysene	218-01-9	1,800		19	190	1
04688	Dibenz(a,h)anthracene	53-70-3	2,000		19	190	1
04688	Dibenzofuran	132-64-9	1,700		19	190	1
04688	1,2-Dichlorobenzene	95-50-1	1,500		19	190	1
04688	1,3-Dichlorobenzene	541-73-1	1,500		19	190	1
04688	1,4-Dichlorobenzene	106-46-7	1,700		19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	910		110	370	1
04688	2,4-Dichlorophenol	120-83-2	1,800		19	190	1
04688	Diethylphthalate	84-66-2	1,900		19	190	1
04688	2,4-Dimethylphenol	105-67-9	1,700		37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	Dimethylphthalate	131-11-3	1,800		19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	930		190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	J	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,900		37	190	1
04688	2,6-Dinitrotoluene	606-20-2	2,000		19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	2,000		19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		19	370	1
04688	Fluoranthene	206-44-0	1,800		19	190	1
04688	Fluorene	86-73-7	1,900		19	190	1
04688	Hexachlorobenzene	118-74-1	1,800		19	190	1
04688	Hexachlorobutadiene	87-68-3	1,600		75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	3,100		190	560	1
04688	Hexachloroethane	67-72-1	1,600		19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900		19	190	1
04688	Isophorone	78-59-1	1,800		19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-183-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359561
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1103 SDG#: DE211-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,600	19	190	1
04688	2-Methylnaphthalene	91-57-6	1,600	19	190	1
04688	2-Methylphenol	95-48-7	1,700	37	190	1
04688	4-Methylphenol	106-44-5	1,600	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,600	19	190	1
04688	2-Nitroaniline	88-74-4	2,000	19	190	1
04688	3-Nitroaniline	99-09-2	1,800	37	190	1
04688	4-Nitroaniline	100-01-6	1,400	75	190	1
04688	Nitrobenzene	98-95-3	1,800	19	190	1
04688	2-Nitrophenol	88-75-5	1,700	19	190	1
04688	4-Nitrophenol	100-02-7	1,600	190	560	1
04688	N-Nitrosodimethylamine	62-75-9	1,700	37	190	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	2,200	19	190	1
04688	Pentachlorophenol	87-86-5	1,400	190	560	1
04688	Phenanthrene	85-01-8	1,800	19	190	1
04688	Phenol	108-95-2	1,600	19	190	1
04688	Pyrene	129-00-0	1,700	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	37	190	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	35	0.75	1.9	1
10138	Acenaphthylene	208-96-8	36	0.37	1.9	1
10138	Anthracene	120-12-7	37	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	39	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	34	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	44	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	18	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	34	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	48	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	48	6.7	20	1
10138	Chrysene	218-01-9	39	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	24	0.75	1.9	1
10138	Diethylphthalate	84-66-2	33	6.7	20	1
10138	Dimethylphthalate	131-11-3	40	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	44	6.7	20	1
10138	Fluoranthene	206-44-0	41	0.75	1.9	1
10138	Fluorene	86-73-7	38	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	21	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	33	0.75	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-183-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359561
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1103 SDG#: DE211-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	25		0.75	1.9	1
10138	Naphthalene	91-20-3	34		0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	34		0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	42		6.7	20	1
10138	Phenanthrene	85-01-8	36		0.75	1.9	1
10138	Pyrene	129-00-0	40		0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	17		0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	17		0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	38,400		6.72	22.2	1
07914	Boron	7440-42-8	213		0.400	5.56	1
01650	Calcium	7440-70-2	16,400		2.78	22.2	1
01654	Iron	7439-89-6	33,600		5.80	44.4	2
01656	Lithium	7439-93-2	142		0.69	2.2	1
01657	Magnesium	7439-95-4	8,430		0.489	11.1	1
06958	Manganese	7439-96-5	425		0.0400	0.556	1
10145	Phosphorus	7723-14-0	380		0.389	11.1	1
01662	Potassium	7440-09-7	5,380		12.6	55.6	1
01667	Sodium	7440-23-5	1,190		6.61	111	1
07968	Strontium	7440-24-6	140		0.0278	0.556	1
06969	Tin	7440-31-5	352		0.356	11.1	1
06970	Titanium	7440-32-6	1,610		0.0789	1.11	1
10146	Zirconium	7440-67-7	106		0.511	5.56	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.530		0.0799	0.216	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.4		0.0863	0.432	2
06126	Barium	7440-39-3	143		0.114	0.432	2
06127	Beryllium	7440-41-7	1.55		0.0173	0.108	2
06128	Cadmium	7440-43-9	1.34		0.0475	0.108	2
06131	Chromium	7440-47-3	40.9		0.130	0.432	2
06132	Cobalt	7440-48-4	61.6		0.0216	0.108	2
06133	Copper	7440-50-8	25.4		0.0863	0.432	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-183-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359561
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1103 SDG#: DE211-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	12.5	0.0110	0.216	2
06138	Molybdenum	7439-98-7	10.5	0.0540	0.108	2
06139	Nickel	7440-02-0	33.5	0.108	0.432	2
06141	Selenium	7782-49-2	2.09	0.0626	0.432	2
06142	Silver	7440-22-4	10.9	0.0153	0.108	2
06145	Thallium	7440-28-0	0.740	0.0324	0.108	2
06148	Vanadium	7440-62-2	72.2	0.0237	0.108	2
06149	Zinc	7440-66-6	78.3	0.604	3.24	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.188	0.0074	0.105	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11220SLD026	08/18/2011 08:55	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11221SLC026	08/18/2011 00:30	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11221SLC026	08/10/2011 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11220SLD026	08/09/2011 06:45	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112210019A	08/12/2011 05:15	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112210019A	08/09/2011 19:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	112145708006	08/03/2011 20:42	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708006	08/03/2011 20:42	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708006	08/03/2011 20:42	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112145708006	08/07/2011 23:06	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	112145708006	08/03/2011 20:42	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708006	08/03/2011 20:42	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708006	08/03/2011 20:42	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112145708006	08/03/2011 20:42	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708006	08/03/2011 20:42	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112145708006	08/03/2011 20:42	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112145708006	08/03/2011 20:42	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708006	08/03/2011 20:42	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359561
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1103 SDG#: DE211-03MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112145708006	08/03/2011 20:42	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112145708006	08/03/2011 20:42	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112141026002A	08/03/2011 21:08	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026002A	08/03/2011 21:08	David K Beck	2
06126	Barium	SW-846 6020	1	112141026002D	08/03/2011 21:08	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026002A	08/03/2011 21:08	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026002A	08/03/2011 21:08	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026002A	08/03/2011 21:08	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026002A	08/03/2011 21:08	David K Beck	2
06133	Copper	SW-846 6020	1	112141026002A	08/03/2011 21:08	David K Beck	2
06135	Lead	SW-846 6020	1	112141026002A	08/03/2011 21:08	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026002C	08/03/2011 21:08	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026002A	08/03/2011 21:08	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026002B	08/03/2011 21:08	David K Beck	2
06142	Silver	SW-846 6020	1	112141026002A	08/03/2011 21:08	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026002A	08/03/2011 21:08	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026002A	08/03/2011 21:08	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026002A	08/03/2011 21:08	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711003	08/03/2011 19:24	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708006	08/03/2011 10:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026002	08/03/2011 10:42	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711003	08/03/2011 13:00	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402B	08/05/2011 19:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA5DN-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359562
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1103 SDG#: DE211-03DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,200		6.72	22.2	1
07914	Boron	7440-42-8	4.71	J	0.400	5.56	1
01650	Calcium	7440-70-2	18,100		2.78	22.2	1
01654	Iron	7439-89-6	35,500		5.80	44.4	2
01656	Lithium	7439-93-2	31.9		0.69	2.2	1
01657	Magnesium	7439-95-4	8,160		0.489	11.1	1
06958	Manganese	7439-96-5	416		0.0400	0.556	1
10145	Phosphorus	7723-14-0	284		0.389	11.1	1
01662	Potassium	7440-09-7	3,910		12.6	55.6	1
01667	Sodium	7440-23-5	150		6.61	111	1
07968	Strontium	7440-24-6	40.3		0.0278	0.556	1
06969	Tin	7440-31-5	2.99	J	0.356	11.1	1
06970	Titanium	7440-32-6	1,280		0.0789	1.11	1
10146	Zirconium	7440-67-7	6.64		0.511	5.56	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.133	J	0.0814	0.220	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.28		0.0880	0.440	2
06126	Barium	7440-39-3	137		0.117	0.440	2
06127	Beryllium	7440-41-7	0.841		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.258		0.0484	0.110	2
06131	Chromium	7440-47-3	31.9		0.132	0.440	2
06132	Cobalt	7440-48-4	10.3		0.0220	0.110	2
06133	Copper	7440-50-8	15.7		0.0880	0.440	2
06135	Lead	7439-92-1	9.42		0.0112	0.220	2
06138	Molybdenum	7439-98-7	0.443		0.0550	0.110	2
06139	Nickel	7440-02-0	23.0		0.110	0.440	2
06141	Selenium	7782-49-2	0.181	J	0.0638	0.440	2
06142	Silver	7440-22-4	0.0432	J	0.0156	0.110	2
06145	Thallium	7440-28-0	0.344		0.0330	0.110	2
06148	Vanadium	7440-62-2	61.7		0.0242	0.110	2
06149	Zinc	7440-66-6	70.8		0.616	3.30	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0115	J	0.0075	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.6		0.92	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.23	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-183-SA5DN-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359562
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1103 SDG#: DE211-03DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.10	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11626	28a Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
11625	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112145708006	08/03/2011 20:33	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708006	08/03/2011 20:33	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708006	08/03/2011 20:33	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112145708006	08/07/2011 22:58	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	112145708006	08/03/2011 20:33	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708006	08/03/2011 20:33	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708006	08/03/2011 20:33	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112145708006	08/03/2011 20:33	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708006	08/03/2011 20:33	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112145708006	08/03/2011 20:33	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112145708006	08/03/2011 20:33	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708006	08/03/2011 20:33	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112145708006	08/03/2011 20:33	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112145708006	08/03/2011 20:33	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112141026002A	08/03/2011 21:02	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026002A	08/03/2011 21:02	David K Beck	2
06126	Barium	SW-846 6020	1	112141026002D	08/03/2011 21:02	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026002A	08/03/2011 21:02	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026002A	08/03/2011 21:02	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026002A	08/03/2011 21:02	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026002A	08/03/2011 21:02	David K Beck	2
06133	Copper	SW-846 6020	1	112141026002A	08/03/2011 21:02	David K Beck	2
06135	Lead	SW-846 6020	1	112141026002A	08/03/2011 21:02	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026002C	08/03/2011 21:02	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026002A	08/03/2011 21:02	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026002B	08/03/2011 21:02	David K Beck	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-183-SA5DN-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359562
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1103 SDG#: DE211-03DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112141026002A	08/03/2011 21:02	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026002A	08/03/2011 21:02	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026002A	08/03/2011 21:02	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026002A	08/03/2011 21:02	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711003	08/03/2011 19:21	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708006	08/03/2011 10:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026002	08/03/2011 10:42	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711003	08/03/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11217621201A	08/05/2011 12:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11216284202A	08/05/2011 20:02	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11227243201A	08/16/2011 16:00	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11217621201A	08/05/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11216284202A	08/04/2011 18:10	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11215039402A	08/03/2011 10:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11227243201A	08/15/2011 19:50	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11217162402B	08/05/2011 19:10	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402B	08/05/2011 19:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-9.0-10.0

LLI Sample # SW 6359563
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:30

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1104 SDG#: DE211-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	34	J	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-183-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-9.0-10.0

LLI Sample # SW 6359563
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:30

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1104 SDG#: DE211-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	0.44	J	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.7	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-9.0-10.0

LLI Sample # SW 6359563
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:30

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1104 SDG#: DE211-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,200		6.87	22.7	1
07914	Boron	7440-42-8	1.18	J	0.409	5.68	1
01650	Calcium	7440-70-2	15,400		2.84	22.7	1
01654	Iron	7439-89-6	28,400		2.96	22.7	1
01656	Lithium	7439-93-2	29.6		0.70	2.3	1
01657	Magnesium	7439-95-4	5,760		0.500	11.4	1
06958	Manganese	7439-96-5	190		0.0409	0.568	1
10145	Phosphorus	7723-14-0	110		0.397	11.4	1
01662	Potassium	7440-09-7	2,410		12.8	56.8	1
01667	Sodium	7440-23-5	144		6.76	114	1
07968	Strontium	7440-24-6	33.3		0.0284	0.568	1
06969	Tin	7440-31-5	2.63	J	0.363	11.4	1
06970	Titanium	7440-32-6	1,250		0.0806	1.14	1
10146	Zirconium	7440-67-7	5.06	J	0.522	5.68	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0991	J	0.0840	0.227	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.50		0.0908	0.454	2
06126	Barium	7440-39-3	111		0.120	0.454	2
06127	Beryllium	7440-41-7	0.828		0.0182	0.114	2
06128	Cadmium	7440-43-9	0.0663	J	0.0500	0.114	2
06131	Chromium	7440-47-3	26.0		0.136	0.454	2
06132	Cobalt	7440-48-4	5.85		0.0227	0.114	2
06133	Copper	7440-50-8	11.5		0.0908	0.454	2
06135	Lead	7439-92-1	8.27		0.0116	0.227	2
06138	Molybdenum	7439-98-7	0.405		0.0568	0.114	2
06139	Nickel	7440-02-0	17.3		0.114	0.454	2
06141	Selenium	7782-49-2	0.0798	J	0.0659	0.454	2
06142	Silver	7440-22-4	0.0536	J	0.0161	0.114	2
06145	Thallium	7440-28-0	0.312		0.0341	0.114	2
06148	Vanadium	7440-62-2	49.4		0.0250	0.114	2
06149	Zinc	7440-66-6	55.8		0.636	3.41	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0157	J	0.0075	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.8		0.92	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	J	0.24	1.2	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-9.0-10.0

LLI Sample # SW 6359563
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:30

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1104 SDG#: DE211-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.05	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	12.8	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11220SLD026	08/18/2011 10:11	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11221SLC026	08/18/2011 02:08	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11221SLC026	08/10/2011 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11220SLD026	08/09/2011 06:45	Joseph S Feister	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112200028A	08/10/2011 14:45	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112210019A	08/12/2011 05:33	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112210019A	08/09/2011 19:00	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112200028A	08/09/2011 09:30	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112145708006	08/03/2011 21:09	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708006	08/03/2011 21:09	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708006	08/03/2011 21:09	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112145708006	08/03/2011 21:09	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112145708006	08/03/2011 21:09	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708006	08/03/2011 21:09	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708006	08/03/2011 21:09	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112145708006	08/03/2011 21:09	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708006	08/03/2011 21:09	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112145708006	08/03/2011 21:09	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112145708006	08/03/2011 21:09	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708006	08/03/2011 21:09	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112145708006	08/03/2011 21:09	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112145708006	08/03/2011 21:09	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-9.0-10.0

LLI Sample # SW 6359563
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:30

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1104 SDG#: DE211-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112141026002A	08/03/2011 21:27	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026002A	08/03/2011 21:27	David K Beck	2
06126	Barium	SW-846 6020	1	112141026002D	08/03/2011 21:27	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026002A	08/03/2011 21:27	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026002A	08/03/2011 21:27	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026002A	08/03/2011 21:27	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026002A	08/03/2011 21:27	David K Beck	2
06133	Copper	SW-846 6020	1	112141026002A	08/03/2011 21:27	David K Beck	2
06135	Lead	SW-846 6020	1	112141026002A	08/03/2011 21:27	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026002C	08/03/2011 21:27	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026002A	08/03/2011 21:27	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026002B	08/03/2011 21:27	David K Beck	2
06142	Silver	SW-846 6020	1	112141026002A	08/03/2011 21:27	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026002A	08/03/2011 21:27	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026002A	08/03/2011 21:27	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026002A	08/03/2011 21:27	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711003	08/03/2011 19:25	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708006	08/03/2011 10:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026002	08/03/2011 10:42	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711003	08/03/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11217621201A	08/05/2011 13:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11216284202A	08/05/2011 21:57	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11227243201A	08/16/2011 16:27	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11217621201A	08/05/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11216284202A	08/04/2011 18:10	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11215039402A	08/03/2011 10:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11227243201A	08/15/2011 19:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402B	08/05/2011 19:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP21-SA5DN-QC-072811 Soil
SSFL Area IV Collocated Soil Sampling
DUP21-SA5DN-QC-072811

LLI Sample # SW 6359564
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:19

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1105 SDG#: DE211-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	74	U	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	74	U	74	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP21-SA5DN-QC-072811 Soil
SSFL Area IV Collocated Soil Sampling
DUP21-SA5DN-QC-072811

LLI Sample # SW 6359564
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:19

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1105 SDG#: DE211-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	1.8	J	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,700		6.71	22.2	1
07914	Boron	7440-42-8	4.64	J	0.399	5.54	1
01650	Calcium	7440-70-2	16,400		2.77	22.2	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP21-SA5DN-QC-072811 Soil
SSFL Area IV Collocated Soil Sampling
DUP21-SA5DN-QC-072811

LLI Sample # SW 6359564
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:19

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1105 SDG#: DE211-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	33,900		5.79	44.3	2
01656	Lithium	7439-93-2	31.1		0.69	2.2	1
01657	Magnesium	7439-95-4	7,840		0.488	11.1	1
06958	Manganese	7439-96-5	381		0.0399	0.554	1
10145	Phosphorus	7723-14-0	283		0.388	11.1	1
01662	Potassium	7440-09-7	3,830		12.5	55.4	1
01667	Sodium	7440-23-5	144		6.60	111	1
07968	Strontium	7440-24-6	36.1		0.0277	0.554	1
06969	Tin	7440-31-5	2.57	J	0.355	11.1	1
06970	Titanium	7440-32-6	1,330		0.0787	1.11	1
10146	Zirconium	7440-67-7	6.20		0.510	5.54	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.116	J	0.0804	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.25		0.0870	0.435	2
06126	Barium	7440-39-3	129		0.115	0.435	2
06127	Beryllium	7440-41-7	0.790		0.0174	0.109	2
06128	Cadmium	7440-43-9	0.250		0.0478	0.109	2
06131	Chromium	7440-47-3	30.7		0.130	0.435	2
06132	Cobalt	7440-48-4	10.3		0.0217	0.109	2
06133	Copper	7440-50-8	14.9		0.0870	0.435	2
06135	Lead	7439-92-1	9.37		0.0111	0.217	2
06138	Molybdenum	7439-98-7	0.499		0.0543	0.109	2
06139	Nickel	7440-02-0	22.2		0.109	0.435	2
06141	Selenium	7782-49-2	0.162	J	0.0630	0.435	2
06142	Silver	7440-22-4	0.0493	J	0.0154	0.109	2
06145	Thallium	7440-28-0	0.342		0.0326	0.109	2
06148	Vanadium	7440-62-2	59.4		0.0239	0.109	2
06149	Zinc	7440-66-6	80.1		0.609	3.26	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0095	J	0.0076	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.9		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27	J	0.23	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP21-SA5DN-QC-072811 Soil
SSFL Area IV Collocated Soil Sampling
DUP21-SA5DN-QC-072811

LLI Sample # SW 6359564
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:19

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1105 SDG#: DE211-05FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.14	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11220SLD026	08/18/2011 10:36	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11221SLC026	08/18/2011 02:40	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11221SLC026	08/10/2011 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11220SLD026	08/09/2011 06:45	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112210019A	08/12/2011 07:06	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112210019A	08/09/2011 19:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	112145708006	08/03/2011 21:13	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708006	08/03/2011 21:13	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708006	08/03/2011 21:13	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112145708006	08/07/2011 23:20	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	112145708006	08/03/2011 21:13	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708006	08/03/2011 21:13	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708006	08/03/2011 21:13	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112145708006	08/03/2011 21:13	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708006	08/03/2011 21:13	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112145708006	08/03/2011 21:13	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112145708006	08/03/2011 21:13	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708006	08/03/2011 21:13	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112145708006	08/03/2011 21:13	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112145708006	08/03/2011 21:13	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112141026002A	08/03/2011 21:30	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026002A	08/03/2011 21:30	David K Beck	2
06126	Barium	SW-846 6020	1	112141026002D	08/03/2011 21:30	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026002A	08/03/2011 21:30	David K Beck	2

*=This limit was used in the evaluation of the final result

Sample Description: DUP21-SA5DN-QC-072811 Soil
SSFL Area IV Collocated Soil Sampling
DUP21-SA5DN-QC-072811

LLI Sample # SW 6359564
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:19

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1105 SDG#: DE211-05FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112141026002A	08/03/2011 21:30	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026002A	08/03/2011 21:30	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026002A	08/03/2011 21:30	David K Beck	2
06133	Copper	SW-846 6020	1	112141026002A	08/03/2011 21:30	David K Beck	2
06135	Lead	SW-846 6020	1	112141026002A	08/03/2011 21:30	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026002C	08/03/2011 21:30	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026002A	08/03/2011 21:30	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026002B	08/03/2011 21:30	David K Beck	2
06142	Silver	SW-846 6020	1	112141026002A	08/03/2011 21:30	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026002A	08/03/2011 21:30	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026002A	08/03/2011 21:30	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026002A	08/03/2011 21:30	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711003	08/03/2011 19:26	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708006	08/03/2011 10:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026002	08/03/2011 10:42	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711003	08/03/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11217621201A	08/05/2011 13:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11216284202A	08/05/2011 22:20	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11227243201A	08/16/2011 16:40	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11217621201A	08/05/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11216284202A	08/04/2011 18:10	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11215039402A	08/03/2011 10:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11227243201A	08/15/2011 19:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402B	08/05/2011 19:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-068-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA6-SB-4.0-5.0

LLI Sample # SW 6359565
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 07:40

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1106 SDG#: DE211-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-068-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA6-SB-4.0-5.0

LLI Sample # SW 6359565
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 07:40

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1106 SDG#: DE211-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20	1
10138	Chrysene	218-01-9	0.43	J	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1	24.85
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	9.2		1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-068-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA6-SB-4.0-5.0

LLI Sample # SW 6359565
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 07:40

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1106 SDG#: DE211-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	1.6	J	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540	1
10501	Isopropanol	67-63-0	110	U	110	540	1
10501	Methanol	67-56-1	110	U	110	540	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11	1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11	1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.5	5
10199	EFH (C15-C20)	n.a.	2.2	U	2.2	6.5	5
10199	EFH (C21-C30)	n.a.	13		2.2	6.5	5
10199	EFH (C30 - C40)	n.a.	44		2.2	6.5	5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.5	5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,900		6.50	21.5	1
07914	Boron	7440-42-8	1.72	J	0.387	5.38	1
01650	Calcium	7440-70-2	19,600		2.69	21.5	1
01654	Iron	7439-89-6	21,400		2.81	21.5	1
01656	Lithium	7439-93-2	23.3		0.67	2.2	1
01657	Magnesium	7439-95-4	5,800		0.473	10.8	1
06958	Manganese	7439-96-5	258		0.0387	0.538	1
10145	Phosphorus	7723-14-0	454		0.376	10.8	1
01662	Potassium	7440-09-7	3,430		12.1	53.8	1
01667	Sodium	7440-23-5	195		6.40	108	1
07968	Strontium	7440-24-6	43.5		0.0269	0.538	1
06969	Tin	7440-31-5	2.07	J	0.344	10.8	1
06970	Titanium	7440-32-6	1,120		0.0763	1.08	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-068-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA6-SB-4.0-5.0

LLI Sample # SW 6359565
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 07:40

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1106 SDG#: DE211-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	3.64	J	0.495	5.38	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0780	U	0.0780	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.34		0.0843	0.422	2
06126	Barium	7440-39-3	72.9		0.112	0.422	2
06127	Beryllium	7440-41-7	0.451		0.0169	0.105	2
06128	Cadmium	7440-43-9	0.106		0.0464	0.105	2
06131	Chromium	7440-47-3	16.8		0.126	0.422	2
06132	Cobalt	7440-48-4	5.88		0.0211	0.105	2
06133	Copper	7440-50-8	9.93		0.0843	0.422	2
06135	Lead	7439-92-1	5.58		0.0108	0.211	2
06138	Molybdenum	7439-98-7	0.400		0.0527	0.105	2
06139	Nickel	7440-02-0	10.8		0.105	0.422	2
06141	Selenium	7782-49-2	0.0930	J	0.0611	0.422	2
06142	Silver	7440-22-4	0.0198	J	0.0150	0.105	2
06145	Thallium	7440-28-0	0.219		0.0316	0.105	2
06148	Vanadium	7440-62-2	39.5		0.0232	0.105	2
06149	Zinc	7440-66-6	49.1		0.590	3.16	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0366	J	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.33	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.43		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.9		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-068-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA6-SB-4.0-5.0

LLI Sample # SW 6359565
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 07:40

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1106 SDG#: DE211-06

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-068-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11220SLD026	08/18/2011 11:00	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11221SLC026	08/18/2011 03:13	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11221SLC026	08/10/2011 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11220SLD026	08/09/2011 06:45	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11215A34A	08/03/2011 21:38	Linda C Pape	24.85
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201121025066	07/29/2011 14:06	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201121025066	07/29/2011 14:06	Christopher D Meeks	n.a.
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112200028A	08/10/2011 14:51	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112210019A	08/13/2011 17:16	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112210019A	08/09/2011 19:00	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112200028A	08/09/2011 09:30	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112130034A	08/02/2011 18:57	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112130002A	08/01/2011 15:05	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112200040A	08/11/2011 17:33	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112210020A	08/11/2011 06:48	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112210020A	08/09/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112200040A	08/09/2011 08:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112130034A	08/02/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112130002A	08/01/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112145708006	08/03/2011 21:18	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708006	08/03/2011 21:18	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708006	08/03/2011 21:18	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112145708006	08/03/2011 21:18	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112145708006	08/03/2011 21:18	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708006	08/03/2011 21:18	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708006	08/03/2011 21:18	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112145708006	08/03/2011 21:18	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708006	08/03/2011 21:18	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-068-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA6-SB-4.0-5.0

LLI Sample # SW 6359565
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 07:40

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1106 SDG#: DE211-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	112145708006	08/03/2011 21:18	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112145708006	08/03/2011 21:18	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708006	08/03/2011 21:18	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112145708006	08/03/2011 21:18	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112145708006	08/03/2011 21:18	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112141026002A	08/03/2011 21:33	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026002A	08/03/2011 21:33	David K Beck	2
06126	Barium	SW-846 6020	1	112141026002D	08/03/2011 21:33	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026002A	08/03/2011 21:33	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026002A	08/03/2011 21:33	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026002A	08/03/2011 21:33	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026002A	08/03/2011 21:33	David K Beck	2
06133	Copper	SW-846 6020	1	112141026002A	08/03/2011 21:33	David K Beck	2
06135	Lead	SW-846 6020	1	112141026002A	08/03/2011 21:33	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026002C	08/03/2011 21:33	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026002A	08/03/2011 21:33	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026002B	08/03/2011 21:33	David K Beck	2
06142	Silver	SW-846 6020	1	112141026002A	08/03/2011 21:33	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026002A	08/03/2011 21:33	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026002A	08/03/2011 21:33	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026002A	08/03/2011 21:33	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711003	08/03/2011 19:30	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708006	08/03/2011 10:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026002	08/03/2011 10:42	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711003	08/03/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11217621201A	08/05/2011 13:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11216284202A	08/05/2011 22:44	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11227243201A	08/16/2011 16:54	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11217621201A	08/05/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11216284202A	08/04/2011 18:10	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11215039402A	08/03/2011 10:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11227243201A	08/15/2011 19:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402B	08/05/2011 19:10	Scott W Freisher	1

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Analysis Report

Sample Description: SL-068-SA6-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA6-SB-19.0-20.0

LLI Sample # SW 6359566
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 07:50

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1107 SDG#: DE211-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Anthracene	120-12-7	29	J	19	190	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzo(a)anthracene	56-55-3	75	J	19	190	1
04688	Benzo(a)pyrene	50-32-8	61	J	19	190	1
04688	Benzo(b)fluoranthene	205-99-2	89	J	19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	43	J	19	190	1
04688	Benzo(k)fluoranthene	207-08-9	28	J	19	190	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Chrysene	218-01-9	80	J	19	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Fluoranthene	206-44-0	150	J	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	47	J	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-068-SA6-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA6-SB-19.0-20.0

LLI Sample # SW 6359566
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 07:50

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1107 SDG#: DE211-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenanthrene	85-01-8	80	J	19	190	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	Pyrene	129-00-0	150	J	19	190	1
04688	Tetralin	119-64-2	190	U	190	190	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	1.6	J	0.75	1.9	1
10138	Acenaphthylene	208-96-8	1.8	J	0.38	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Dibenz(a,h)anthracene	53-70-3	2.1		0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.8	20	1
10138	Fluorene	86-73-7	1.2	J	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.98	J	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1	21.74
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.6	U	5.6	19	5
10225	Aroclor 5442	12642-23-8	5.6	U	5.6	19	5
10225	Aroclor 5460	11126-42-4	50		5.6	19	5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.6	5
10225	PCB-1221	11104-28-2	1.9	U	1.9	9.6	5
10225	PCB-1232	11141-16-5	1.9	U	1.9	9.6	5
10225	PCB-1242	53469-21-9	1.9	U	1.9	9.6	5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.6	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-068-SA6-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA6-SB-19.0-20.0

LLI Sample # SW 6359566
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 07:50

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1107 SDG#: DE211-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	43		1.9	9.6	5
10225	PCB-1260	11096-82-5	2.2	U	2.2	9.6	5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.6	5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.6	5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560	1
10501	Isopropanol	67-63-0	110	U	110	560	1
10501	Methanol	67-56-1	110	U	110	560	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11	1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11	1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9	1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9	1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.90	U	0.90	2.7	2
10199	EFH (C15-C20)	n.a.	0.90	U	0.90	2.7	2
10199	EFH (C21-C30)	n.a.	3.1		0.90	2.7	2
10199	EFH (C30 - C40)	n.a.	15		0.90	2.7	2
10199	EFH (C8-C11)	n.a.	0.90	U	0.90	2.7	2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,600		6.50	21.5	1
07914	Boron	7440-42-8	0.622	J	0.387	5.37	1
01650	Calcium	7440-70-2	11,700		2.68	21.5	1
01654	Iron	7439-89-6	23,100		2.80	21.5	1
01656	Lithium	7439-93-2	22.7		0.67	2.1	1
01657	Magnesium	7439-95-4	5,540		0.472	10.7	1
06958	Manganese	7439-96-5	238		0.0387	0.537	1
10145	Phosphorus	7723-14-0	394		0.376	10.7	1
01662	Potassium	7440-09-7	3,040		12.1	53.7	1
01667	Sodium	7440-23-5	200		6.39	107	1
07968	Strontium	7440-24-6	41.1		0.0268	0.537	1
06969	Tin	7440-31-5	1.81	J	0.344	10.7	1
06970	Titanium	7440-32-6	975		0.0762	1.07	1
10146	Zirconium	7440-67-7	2.67	J	0.494	5.37	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-068-SA6-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA6-SB-19.0-20.0

LLI Sample # SW 6359566
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 07:50

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1107 SDG#: DE211-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.103 J	0.0795	0.215	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	5.50	0.0859	0.429	2
06126	Barium	7440-39-3	88.1	0.114	0.429	2
06127	Beryllium	7440-41-7	0.411	0.0172	0.107	2
06128	Cadmium	7440-43-9	0.185	0.0472	0.107	2
06131	Chromium	7440-47-3	14.1	0.129	0.429	2
06132	Cobalt	7440-48-4	7.54	0.0215	0.107	2
06133	Copper	7440-50-8	11.9	0.0859	0.429	2
06135	Lead	7439-92-1	7.36	0.0110	0.215	2
06138	Molybdenum	7439-98-7	0.567	0.0537	0.107	2
06139	Nickel	7440-02-0	11.4	0.107	0.429	2
06141	Selenium	7782-49-2	0.110 J	0.0623	0.429	2
06142	Silver	7440-22-4	0.0318 J	0.0152	0.107	2
06145	Thallium	7440-28-0	0.162	0.0322	0.107	2
06148	Vanadium	7440-62-2	39.2	0.0236	0.107	2
06149	Zinc	7440-66-6	52.9	0.601	3.22	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.344	0.0074	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.90 U	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.8	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27 J	0.23	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	9.05	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-068-SA6-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA6-SB-19.0-20.0

LLI Sample # SW 6359566
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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E1107 SDG#: DE211-07

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-068-SA6-SB-19.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11220SLD026	08/18/2011 11:25	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11221SLC026	08/18/2011 03:46	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11221SLC026	08/10/2011 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11220SLD026	08/09/2011 06:45	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11215A34A	08/03/2011 15:00	Linda C Pape	21.74
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201121025066	07/29/2011 14:07	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201121025066	07/29/2011 14:07	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112210019A	08/13/2011 17:35	Sarah M Snyder	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112210019A	08/09/2011 19:00	Sally L Appleyard	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112130034A	08/02/2011 19:12	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112130002A	08/01/2011 15:18	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112200040A	08/11/2011 19:46	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112210020A	08/11/2011 04:25	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112210020A	08/09/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112200040A	08/09/2011 08:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112130034A	08/02/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112130002A	08/01/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112145708006	08/03/2011 21:22	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708006	08/03/2011 21:22	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708006	08/03/2011 21:22	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112145708006	08/03/2011 21:22	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112145708006	08/07/2011 23:24	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112145708006	08/07/2011 23:24	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112145708006	08/03/2011 21:22	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112145708006	08/03/2011 21:22	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708006	08/07/2011 23:24	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112145708006	08/03/2011 21:22	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112145708006	08/03/2011 21:22	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708006	08/03/2011 21:22	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112145708006	08/03/2011 21:22	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-068-SA6-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA6-SB-19.0-20.0

LLI Sample # SW 6359566
LLI Group # 1258927
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E1107 SDG#: DE211-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112145708006	08/03/2011 21:22	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112141026002A	08/03/2011 21:36	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026002A	08/03/2011 21:36	David K Beck	2
06126	Barium	SW-846 6020	1	112141026002D	08/03/2011 21:36	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026002A	08/03/2011 21:36	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026002A	08/03/2011 21:36	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026002A	08/03/2011 21:36	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026002A	08/03/2011 21:36	David K Beck	2
06133	Copper	SW-846 6020	1	112141026002A	08/03/2011 21:36	David K Beck	2
06135	Lead	SW-846 6020	1	112141026002A	08/03/2011 21:36	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026002C	08/03/2011 21:36	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026002A	08/03/2011 21:36	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026002B	08/03/2011 21:36	David K Beck	2
06142	Silver	SW-846 6020	1	112141026002A	08/03/2011 21:36	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026002A	08/03/2011 21:36	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026002A	08/03/2011 21:36	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026002A	08/03/2011 21:36	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711003	08/03/2011 19:31	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708006	08/03/2011 10:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026002	08/03/2011 10:42	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711003	08/03/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11217621201A	08/05/2011 14:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11216284202A	08/05/2011 23:07	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11227243201A	08/16/2011 17:14	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11217621201A	08/05/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11216284202A	08/04/2011 18:10	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11215039402A	08/03/2011 10:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11227243201A	08/15/2011 19:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402B	08/05/2011 19:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-070-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA6-SB-4.0-5.0

LLI Sample # SW 6359567
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:20

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1108 SDG#: DE211-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-070-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA6-SB-4.0-5.0

LLI Sample # SW 6359567
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:20

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1108 SDG#: DE211-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	190	U	190	190	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.93	J	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.78	J	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	1.2	J	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	2.8		0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.1	J	6.7	20	1
10138	Fluoranthene	206-44-0	1.2	J	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	1.2	J	0.75	1.9	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1	21.66
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	4.4		1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-070-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA6-SB-4.0-5.0

LLI Sample # SW 6359567
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:20

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1108 SDG#: DE211-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	2.6		0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560	1
10501	Isopropanol	67-63-0	110	U	110	560	1
10501	Methanol	67-56-1	110	U	110	560	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11	1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11	1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9	1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9	1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.89	U	0.89	2.7	2
10199	EFH (C15-C20)	n.a.	0.89	U	0.89	2.7	2
10199	EFH (C21-C30)	n.a.	5.3		0.89	2.7	2
10199	EFH (C30 - C40)	n.a.	15		0.89	2.7	2
10199	EFH (C8-C11)	n.a.	0.89	U	0.89	2.7	2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,700		6.70	22.1	1
07914	Boron	7440-42-8	5.09	J	0.399	5.54	1
01650	Calcium	7440-70-2	31,900		2.77	22.1	1
01654	Iron	7439-89-6	28,200		2.89	22.1	1
01656	Lithium	7439-93-2	28.8		0.69	2.2	1
01657	Magnesium	7439-95-4	7,280		0.487	11.1	1
06958	Manganese	7439-96-5	312		0.0399	0.554	1
10145	Phosphorus	7723-14-0	529		0.388	11.1	1
01662	Potassium	7440-09-7	4,840		12.5	55.4	1
01667	Sodium	7440-23-5	256		6.59	111	1
07968	Strontium	7440-24-6	65.5		0.0277	0.554	1
06969	Tin	7440-31-5	2.04	J	0.354	11.1	1
06970	Titanium	7440-32-6	1,300		0.0786	1.11	1
10146	Zirconium	7440-67-7	5.04	J	0.509	5.54	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-070-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA6-SB-4.0-5.0

LLI Sample # SW 6359567
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:20

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1108 SDG#: DE211-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0824 J	0.0820	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	4.69	0.0886	0.443	2
06126	Barium	7440-39-3	102	0.117	0.443	2
06127	Beryllium	7440-41-7	0.553	0.0177	0.111	2
06128	Cadmium	7440-43-9	0.173	0.0487	0.111	2
06131	Chromium	7440-47-3	23.3	0.133	0.443	2
06132	Cobalt	7440-48-4	7.70	0.0221	0.111	2
06133	Copper	7440-50-8	12.3	0.0886	0.443	2
06135	Lead	7439-92-1	6.79	0.0113	0.221	2
06138	Molybdenum	7439-98-7	0.337	0.0554	0.111	2
06139	Nickel	7440-02-0	14.7	0.111	0.443	2
06141	Selenium	7782-49-2	0.167 J	0.0642	0.443	2
06142	Silver	7440-22-4	0.0215 J	0.0157	0.111	2
06145	Thallium	7440-28-0	0.259	0.0332	0.111	2
06148	Vanadium	7440-62-2	48.7	0.0244	0.111	2
06149	Zinc	7440-66-6	58.7	0.620	3.32	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0127 J	0.0078	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8	0.89	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.6	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.25 J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.09	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: SL-070-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA6-SB-4.0-5.0

LLI Sample # SW 6359567
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:20

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14420 Albemarle Point Place
Suite 210
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E1108 SDG#: DE211-08

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-070-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11220SLD026	08/18/2011 11:50	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11221SLC026	08/18/2011 04:18	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11221SLC026	08/10/2011 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11220SLD026	08/09/2011 06:45	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11215A34A	08/03/2011 22:15	Linda C Pape	21.66
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201121025066	07/29/2011 14:08	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201121025066	07/29/2011 14:09	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112210019A	08/13/2011 17:53	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112210019A	08/09/2011 19:00	Sally L Appleyard	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112130034A	08/02/2011 19:27	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112130002A	08/01/2011 15:30	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112200040A	08/11/2011 20:31	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112210020A	08/11/2011 04:49	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112210020A	08/09/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112200040A	08/09/2011 08:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112130034A	08/02/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112130002A	08/01/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112145708006	08/03/2011 21:26	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708006	08/03/2011 21:26	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708006	08/03/2011 21:26	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112145708006	08/03/2011 21:26	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112145708006	08/03/2011 21:26	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708006	08/03/2011 21:26	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708006	08/03/2011 21:26	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112145708006	08/03/2011 21:26	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708006	08/03/2011 21:26	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112145708006	08/03/2011 21:26	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112145708006	08/03/2011 21:26	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708006	08/03/2011 21:26	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112145708006	08/07/2011 23:35	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-070-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA6-SB-4.0-5.0

LLI Sample # SW 6359567
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:20

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1108 SDG#: DE211-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112145708006	08/03/2011 21:26	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112141026002A	08/03/2011 21:40	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026002A	08/03/2011 21:40	David K Beck	2
06126	Barium	SW-846 6020	1	112141026002D	08/03/2011 21:40	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026002A	08/03/2011 21:40	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026002A	08/03/2011 21:40	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026002A	08/03/2011 21:40	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026002A	08/03/2011 21:40	David K Beck	2
06133	Copper	SW-846 6020	1	112141026002A	08/03/2011 21:40	David K Beck	2
06135	Lead	SW-846 6020	1	112141026002A	08/03/2011 21:40	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026002C	08/03/2011 21:40	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026002A	08/03/2011 21:40	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026002B	08/03/2011 21:40	David K Beck	2
06142	Silver	SW-846 6020	1	112141026002A	08/03/2011 21:40	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026002A	08/03/2011 21:40	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026002A	08/03/2011 21:40	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026002A	08/03/2011 21:40	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711003	08/03/2011 19:33	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708006	08/03/2011 10:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026002	08/03/2011 10:42	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711003	08/03/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11217621201A	08/05/2011 14:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11216284202A	08/05/2011 23:30	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11227243201A	08/16/2011 17:21	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11217621201A	08/05/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11216284202A	08/04/2011 18:10	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11215039402A	08/03/2011 10:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11227243201A	08/15/2011 19:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402B	08/05/2011 19:10	Scott W Freisher	1

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Analysis Report

Sample Description: SL-070-SA6-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA6-SB-19.0-20.0

LLI Sample # SW 6359568
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 11:30

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1109 SDG#: DE211-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600	1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000	1
04688	Benzo(a)anthracene	56-55-3	50	J	20	200	1
04688	Benzo(a)pyrene	50-32-8	58	J	20	200	1
04688	Benzo(b)fluoranthene	205-99-2	73	J	20	200	1
04688	Benzo(g,h,i)perylene	191-24-2	55	J	20	200	1
04688	Benzo(k)fluoranthene	207-08-9	36	J	20	200	1
04688	Benzoic acid	65-85-0	200	U	200	600	1
04688	Benzyl alcohol	100-51-6	200	U	200	600	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200	1
04688	4-Chloroaniline	106-47-8	80	U	80	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200	1
04688	Chrysene	218-01-9	60	J	20	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200	1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600	1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	Fluoranthene	206-44-0	59	J	20	200	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	37	J	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	40	U	40	200	1
04688	4-Methylphenol	106-44-5	40	U	40	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	40	U	40	200	1
04688	4-Nitroaniline	100-01-6	80	U	80	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-070-SA6-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA6-SB-19.0-20.0

LLI Sample # SW 6359568
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 11:30

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1109 SDG#: DE211-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	200	U	200	600	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	600	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	Pyrene	129-00-0	58	J	20	200	1
04688	Tetralin	119-64-2	200	U	200	200	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200	1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	8.9		0.80	2.0	1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0	1
10138	Anthracene	120-12-7	18		0.40	2.0	1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22	1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22	1
10138	Dibenz(a,h)anthracene	53-70-3	1.9	J	0.80	2.0	1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22	1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.2	U	7.2	22	1
10138	Fluorene	86-73-7	8.7		0.80	2.0	1
10138	1-Methylnaphthalene	90-12-0	1.6	J	0.80	2.0	1
10138	2-Methylnaphthalene	91-57-6	1.8	J	0.80	2.0	1
10138	Naphthalene	91-20-3	1.7	J	0.80	2.0	1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0	1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22	1
10138	Phenanthrene	85-01-8	70		0.80	2.0	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0	20.97
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	60	U	60	200	50
10225	Aroclor 5442	12642-23-8	60	U	60	200	50
10225	Aroclor 5460	11126-42-4	450		60	200	50
10225	PCB-1016	12674-11-2	20	U	20	100	50
10225	PCB-1221	11104-28-2	20	U	20	100	50
10225	PCB-1232	11141-16-5	20	U	20	100	50
10225	PCB-1242	53469-21-9	20	U	20	100	50
10225	PCB-1248	12672-29-6	20	U	20	100	50

*=This limit was used in the evaluation of the final result

Sample Description: SL-070-SA6-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA6-SB-19.0-20.0

LLI Sample # SW 6359568
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 11:30

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1109 SDG#: DE211-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	240		20	100	50
10225	PCB-1260	11096-82-5	23	U	23	100	50
10225	PCB-1262	37324-23-5	20	U	20	100	50
10225	PCB-1268	11100-14-4	20	U	20	100	50
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	600	1
10501	Isopropanol	67-63-0	120	U	120	600	1
10501	Methanol	67-56-1	120	U	120	600	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	12	1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	12	1
08283	Propylene glycol	57-55-6	6.0	U	6.0	12	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2	1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2	1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.96	U	0.96	2.9	2
10199	EFH (C15-C20)	n.a.	0.96	U	0.96	2.9	2
10199	EFH (C21-C30)	n.a.	8.9		0.96	2.9	2
10199	EFH (C30 - C40)	n.a.	25		0.96	2.9	2
10199	EFH (C8-C11)	n.a.	0.96	U	0.96	2.9	2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,300		6.98	23.1	1
07914	Boron	7440-42-8	0.416	U	0.416	5.77	1
01650	Calcium	7440-70-2	22,200		2.89	23.1	1
01654	Iron	7439-89-6	27,100		3.01	23.1	1
01656	Lithium	7439-93-2	21.3		0.72	2.3	1
01657	Magnesium	7439-95-4	5,860		0.508	11.5	1
06958	Manganese	7439-96-5	270		0.0416	0.577	1
10145	Phosphorus	7723-14-0	468		0.404	11.5	1
01662	Potassium	7440-09-7	3,250		13.0	57.7	1
01667	Sodium	7440-23-5	413		6.87	115	1
07968	Strontium	7440-24-6	50.2		0.0289	0.577	1
06969	Tin	7440-31-5	2.36	J	0.369	11.5	1
06970	Titanium	7440-32-6	1,120		0.0820	1.15	1
10146	Zirconium	7440-67-7	5.04	J	0.531	5.77	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-070-SA6-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA6-SB-19.0-20.0

LLI Sample # SW 6359568
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 11:30

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1109 SDG#: DE211-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.206 J	0.0846	0.229	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	10.4	0.0915	0.457	2
06126	Barium	7440-39-3	84.9	0.121	0.457	2
06127	Beryllium	7440-41-7	0.534	0.0183	0.114	2
06128	Cadmium	7440-43-9	0.528	0.0503	0.114	2
06131	Chromium	7440-47-3	16.2	0.137	0.457	2
06132	Cobalt	7440-48-4	12.0	0.0229	0.114	2
06133	Copper	7440-50-8	23.4	0.0915	0.457	2
06135	Lead	7439-92-1	28.7	0.0117	0.229	2
06138	Molybdenum	7439-98-7	1.87	0.0572	0.114	2
06139	Nickel	7440-02-0	11.1	0.114	0.457	2
06141	Selenium	7782-49-2	0.122 J	0.0663	0.457	2
06142	Silver	7440-22-4	0.0354 J	0.0162	0.114	2
06145	Thallium	7440-28-0	0.189	0.0343	0.114	2
06148	Vanadium	7440-62-2	33.5	0.0252	0.114	2
06149	Zinc	7440-66-6	61.0	0.640	3.43	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.209	0.0078	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4	0.97	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8 U	10.8	36.0	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43 J	0.25	1.2	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	11.0	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	16.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-070-SA6-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA6-SB-19.0-20.0

LLI Sample # SW 6359568
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 11:30

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1109 SDG#: DE211-09

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-070-SA6-SB-19.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11220SLD026	08/18/2011 12:16	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11221SLC026	08/18/2011 04:51	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11221SLC026	08/10/2011 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11220SLD026	08/09/2011 06:45	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11215A34A	08/03/2011 22:51	Linda C Pape	20.97
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201121025066	07/29/2011 14:10	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201121025066	07/29/2011 14:10	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112210019A	08/13/2011 18:12	Sarah M Snyder	50
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112210019A	08/09/2011 19:00	Sally L Appleyard	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112130034A	08/02/2011 19:42	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112130002A	08/01/2011 15:43	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112200040A	08/11/2011 23:29	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112210020A	08/11/2011 05:13	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112210020A	08/09/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112200040A	08/09/2011 08:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112130034A	08/02/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112130002A	08/01/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112145708006	08/03/2011 21:31	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708006	08/03/2011 21:31	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708006	08/03/2011 21:31	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112145708006	08/03/2011 21:31	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112145708006	08/03/2011 21:31	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708006	08/03/2011 21:31	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708006	08/03/2011 21:31	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112145708006	08/03/2011 21:31	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708006	08/03/2011 21:31	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112145708006	08/03/2011 21:31	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112145708006	08/03/2011 21:31	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708006	08/03/2011 21:31	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112145708006	08/03/2011 21:31	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-070-SA6-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA6-SB-19.0-20.0

LLI Sample # SW 6359568
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 11:30

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1109 SDG#: DE211-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112145708006	08/03/2011 21:31	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112141026002A	08/03/2011 21:43	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026002A	08/03/2011 21:43	David K Beck	2
06126	Barium	SW-846 6020	1	112141026002D	08/03/2011 21:43	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026002A	08/03/2011 21:43	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026002A	08/03/2011 21:43	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026002A	08/03/2011 21:43	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026002A	08/03/2011 21:43	David K Beck	2
06133	Copper	SW-846 6020	1	112141026002A	08/03/2011 21:43	David K Beck	2
06135	Lead	SW-846 6020	1	112141026002A	08/03/2011 21:43	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026002C	08/03/2011 21:43	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026002A	08/03/2011 21:43	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026002B	08/03/2011 21:43	David K Beck	2
06142	Silver	SW-846 6020	1	112141026002A	08/03/2011 21:43	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026002A	08/03/2011 21:43	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026002A	08/03/2011 21:43	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026002A	08/03/2011 21:43	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711003	08/03/2011 19:34	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708006	08/03/2011 10:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026002	08/03/2011 10:42	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711003	08/03/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11217621201A	08/05/2011 14:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11216284202A	08/05/2011 23:53	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11227243201A	08/16/2011 17:34	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11217621201A	08/05/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11216284202A	08/04/2011 18:10	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11215039402A	08/03/2011 10:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11227243201A	08/15/2011 19:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402B	08/05/2011 19:10	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-090-SA6-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA6-SB-3.0-4.0

LLI Sample # SW 6359569
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 11:20

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1110 SDG#: DE211-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	18	U	18	180	1
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	74	U	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	74	U	74	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-090-SA6-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA6-SB-3.0-4.0

LLI Sample # SW 6359569
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 11:20

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1110 SDG#: DE211-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0	23.41
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-090-SA6-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA6-SB-3.0-4.0

LLI Sample # SW 6359569
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 11:20

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1110 SDG#: DE211-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550	1
10501	Isopropanol	67-63-0	110	U	110	550	1
10501	Methanol	67-56-1	110	U	110	550	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11	1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11	1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9	1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9	1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3	1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3	1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3	1
10199	EFH (C30 - C40)	n.a.	0.66	J	0.44	1.3	1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,700		6.57	21.7	1
07914	Boron	7440-42-8	0.391	U	0.391	5.43	1
01650	Calcium	7440-70-2	1,820		2.71	21.7	1
01654	Iron	7439-89-6	32,800		5.67	43.4	2
01656	Lithium	7439-93-2	22.0		0.67	2.2	1
01657	Magnesium	7439-95-4	4,940		0.478	10.9	1
06958	Manganese	7439-96-5	201		0.0391	0.543	1
10145	Phosphorus	7723-14-0	303		0.380	10.9	1
01662	Potassium	7440-09-7	1,500		12.3	54.3	1
01667	Sodium	7440-23-5	256		6.46	109	1
07968	Strontium	7440-24-6	13.6		0.0271	0.543	1
06969	Tin	7440-31-5	2.42	J	0.347	10.9	1
06970	Titanium	7440-32-6	1,080		0.0771	1.09	1
10146	Zirconium	7440-67-7	2.40	J	0.499	5.43	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-090-SA6-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA6-SB-3.0-4.0

LLI Sample # SW 6359569
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 11:20

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1110 SDG#: DE211-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0819 U	0.0819	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	7.63	0.0886	0.443	2
06126	Barium	7440-39-3	67.4	0.117	0.443	2
06127	Beryllium	7440-41-7	0.948	0.0177	0.111	2
06128	Cadmium	7440-43-9	0.0487 U	0.0487	0.111	2
06131	Chromium	7440-47-3	17.7	0.133	0.443	2
06132	Cobalt	7440-48-4	3.84	0.0221	0.111	2
06133	Copper	7440-50-8	8.53	0.0886	0.443	2
06135	Lead	7439-92-1	5.00	0.0113	0.221	2
06138	Molybdenum	7439-98-7	0.406	0.0554	0.111	2
06139	Nickel	7440-02-0	8.63	0.111	0.443	2
06141	Selenium	7782-49-2	0.0642 U	0.0642	0.443	2
06142	Silver	7440-22-4	0.0223 J	0.0157	0.111	2
06145	Thallium	7440-28-0	0.186	0.0332	0.111	2
06148	Vanadium	7440-62-2	46.0	0.0244	0.111	2
06149	Zinc	7440-66-6	43.8	0.620	3.32	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0077 U	0.0077	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.0	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10 U	10	33.2	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39 J	0.23	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.03	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: SL-090-SA6-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA6-SB-3.0-4.0

LLI Sample # SW 6359569
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 11:20

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1110 SDG#: DE211-10

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-090-SA6-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11220SLD026	08/18/2011 12:41	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11221SLC026	08/18/2011 10:02	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11221SLC026	08/10/2011 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11220SLD026	08/09/2011 06:45	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11215A34A	08/03/2011 23:27	Linda C Pape	23.41
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201121025067	07/29/2011 14:11	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201121025067	07/29/2011 14:12	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112210019A	08/12/2011 08:39	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112210019A	08/09/2011 19:00	Sally L Appleyard	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112130034A	08/02/2011 19:57	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112130002A	08/01/2011 16:22	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112200040A	08/11/2011 14:34	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112210020A	08/11/2011 04:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112210020A	08/09/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112200040A	08/09/2011 08:30	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112130034A	08/02/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112130002A	08/01/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112145708006	08/03/2011 21:35	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112145708006	08/03/2011 21:35	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112145708006	08/03/2011 21:35	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112145708006	08/07/2011 23:39	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	112145708006	08/03/2011 21:35	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112145708006	08/03/2011 21:35	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112145708006	08/03/2011 21:35	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112145708006	08/03/2011 21:35	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112145708006	08/03/2011 21:35	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112145708006	08/03/2011 21:35	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112145708006	08/03/2011 21:35	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112145708006	08/03/2011 21:35	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112145708006	08/03/2011 21:35	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112145708006	08/03/2011 21:35	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-090-SA6-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA6-SB-3.0-4.0

LLI Sample # SW 6359569
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 11:20

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1110 SDG#: DE211-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112141026002A	08/03/2011 21:46	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026002A	08/03/2011 21:46	David K Beck	2
06126	Barium	SW-846 6020	1	112141026002D	08/03/2011 21:46	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026002A	08/03/2011 21:46	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026002A	08/03/2011 21:46	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026002A	08/03/2011 21:46	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026002A	08/03/2011 21:46	David K Beck	2
06133	Copper	SW-846 6020	1	112141026002A	08/03/2011 21:46	David K Beck	2
06135	Lead	SW-846 6020	1	112141026002A	08/03/2011 21:46	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026002C	08/03/2011 21:46	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026002A	08/03/2011 21:46	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026002B	08/03/2011 21:46	David K Beck	2
06142	Silver	SW-846 6020	1	112141026002A	08/03/2011 21:46	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026002A	08/03/2011 21:46	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026002A	08/03/2011 21:46	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026002A	08/03/2011 21:46	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711003	08/03/2011 19:35	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708006	08/03/2011 10:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026002	08/03/2011 10:42	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711003	08/03/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11217621201A	08/05/2011 15:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11216284202A	08/06/2011 00:16	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11227243201A	08/16/2011 17:54	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11217621201A	08/05/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11216284202A	08/04/2011 18:10	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11215039402B	08/03/2011 10:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11227243201A	08/15/2011 19:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402B	08/05/2011 19:10	Scott W Freisher	1

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Analysis Report

Sample Description: TB-072811 Water
SSFL Area IV Collocated Soil Sampling
TB-072811

LLI Sample # WW 6359570
LLI Group # 1258927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 08:00

Submitted: 07/29/2011 09:10
Reported: 08/24/2011 10:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1111 SDG#: DE211-11TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11215A20A	08/03/2011 15:03	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	11215A20A	08/03/2011 15:03	Linda C Pape	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258927
Reported: 08/24/11 at 10:35 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11220SLD026	Sample number(s): 6359557-6359561,6359563-6359569									
Acenaphthene	17	U	17.	170	ug/kg	101		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	107		75-122		
Aniline	170 U		170.	500	ug/kg	75		20-115		
Anthracene	17	U	17.	170	ug/kg	104		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	41		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	98		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	102		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	99		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	111		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	104		67-125		
Benzoic acid	170 U		170.	500	ug/kg	81		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	89		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	108		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	105		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	103		79-112		
Carbazole	17	U	17.	170	ug/kg	98		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	94		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	54		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	97		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	96		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	98		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	112		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	98		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	99		74-115		
Chrysene	17	U	17.	170	ug/kg	99		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	108		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	97		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	91		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	92		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	93		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	64		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	104		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	97		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	99		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	102		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	69		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	40		18-133		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258927
Reported: 08/24/11 at 10:35 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	104		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	111		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	104		75-117		
Fluoranthene	17	U	17.	170	ug/kg	101		78-116		
Fluorene	17	U	17.	170	ug/kg	101		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	106		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	100		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	104		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	95		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	108		64-119		
Isophorone	17	U	17.	170	ug/kg	98		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	94		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	96		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	96		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	89		66-117		
Naphthalene	17	U	17.	170	ug/kg	93		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	102		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	90		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	70		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	101		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	95		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	89		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	95		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	106		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	105		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	112		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	82		51-117		
Phenanthrene	17	U	17.	170	ug/kg	101		77-113		
Phenol	17	U	17.	170	ug/kg	89		58-112		
Pyrene	17	U	17.	170	ug/kg	101		75-115		
Tetralin	170	U	170.	170	ug/kg	88		70-130		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	101		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	101		78-111		
Batch number: 11221SLC026	Sample number(s): 6359557-6359561,6359563-6359569									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	94		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	90		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	92		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	99		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	86		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	107		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	80		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	80		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	113		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	113		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	99		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	84		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	92		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	101		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	106		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	97		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	97		71-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258927
Reported: 08/24/11 at 10:35 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	82		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	85		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	87		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	82		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	86		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	90		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	102		72-119		
Batch number: 11215A20A	Sample number(s): 6359570									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	118	118	75-135	0	30
Batch number: 11215A34A	Sample number(s): 6359565-6359569									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	78		67-119		
Batch number: 112200028A	Sample number(s): 6359563,6359565									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	108		85-115		
Batch number: 112210019A	Sample number(s): 6359557-6359561,6359563-6359569									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	67	76	36-106	12	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	94		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	84		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112130002A	Sample number(s): 6359565-6359569									
Diethylene glycol	5.0	U	5.0	10	mg/kg	99		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	96		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	91		75-125		
Batch number: 112130034A	Sample number(s): 6359565-6359569									
Ethanol	100	U	100.	500	ug/kg	96		71-129		
Isopropanol	100	U	100.	500	ug/kg	93		75-125		
Methanol	100	U	100.	500	ug/kg	89		68-129		
Batch number: 112200040A	Sample number(s): 6359565-6359569									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	75		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	93		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	79		75-125		
Batch number: 112210020A	Sample number(s): 6359565-6359569									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	96		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	99		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	105		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	99		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	81		54-107		
Batch number: 112141026002A	Sample number(s): 6359557-6359569									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258927
Reported: 08/24/11 at 10:35 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Antimony	0.0733	U	0.0733	0.198	mg/kg	66		10-224		
Arsenic	0.0792	U	0.0792	0.396	mg/kg	99		78-122		
Beryllium	0.0158	U	0.0158	0.0990	mg/kg	99		80-120		
Cadmium	0.0436	U	0.0436	0.0990	mg/kg	98		81-119		
Chromium	0.119	U	0.119	0.396	mg/kg	98		77-123		
Cobalt	0.0198	U	0.0198	0.0990	mg/kg	95		80-119		
Copper	0.0792	U	0.0792	0.396	mg/kg	98		78-122		
Lead	0.0101	U	0.0101	0.198	mg/kg	98		77-123		
Nickel	0.0990	U	0.0990	0.396	mg/kg	102		80-120		
Silver	0.0141	U	0.0141	0.0990	mg/kg	99		66-134		
Thallium	0.0297	U	0.0297	0.0990	mg/kg	98		75-124		
Vanadium	0.0218	U	0.0218	0.0990	mg/kg	104		76-124		
Zinc	0.554	U	0.554	2.97	mg/kg	98		79-121		
Batch number: 112141026002B	Sample number(s): 6359557-6359569									
Selenium	0.0574	U	0.0574	0.396	mg/kg	104		77-123		
Batch number: 112141026002C	Sample number(s): 6359557-6359569									
Molybdenum	0.0495	U	0.0495	0.0990	mg/kg	102		76-123		
Batch number: 112141026002D	Sample number(s): 6359557-6359569									
Barium	0.105	U	0.105	0.396	mg/kg	102		80-120		
Batch number: 112145708006	Sample number(s): 6359557-6359569									
Aluminum	6.17	J	6.05	20.0	mg/kg	146		42-158		
Boron	0.739	J	0.360	5.00	mg/kg	99		66-134		
Calcium	11.0	J	2.50	20.0	mg/kg	103		79-121		
Iron	4.51	J	2.61	20.0	mg/kg	123		51-149		
Lithium	0.62	U	0.62	2.0	mg/kg	95		80-120		
Magnesium	0.694	J	0.440	10.0	mg/kg	121		64-136		
Manganese	0.0420	J	0.0360	0.500	mg/kg	93		78-122		
Phosphorus	1.27	J	0.350	10.0	mg/kg	100		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	120		69-131		
Sodium	5.95	U	5.95	100	mg/kg	109		71-129		
Strontium	0.0620	J	0.0250	0.500	mg/kg	99		81-119		
Tin	1.55	J	0.320	10.0	mg/kg	89		74-126		
Titanium	0.0710	U	0.0710	1.00	mg/kg	177		40-186		
Zirconium	0.460	U	0.460	5.00	mg/kg	97		80-120		
Batch number: 112145711003	Sample number(s): 6359557-6359569									
Mercury	0.0070	U	0.0070	0.0998	mg/kg	102		72-128		
Batch number: 11216284202A	Sample number(s): 6359557-6359560,6359562-6359569									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	107		85-115		
Batch number: 11217621201A	Sample number(s): 6359557-6359560,6359562-6359569									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	105		90-110		
Batch number: 11227243201A	Sample number(s): 6359557-6359560,6359562-6359569									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	93		80-120		
Batch number: 11215039402A	Sample number(s): 6359557-6359559,6359562-6359568									
17a pH by 9045C						100		95-105		
Batch number: 11215039402B	Sample number(s): 6359569									
17a pH by 9045C						100		95-105		
Batch number: 11217162402B	Sample number(s): 6359557-6359569									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258927
Reported: 08/24/11 at 10:35 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11220SLD026	Sample number(s): 6359557-6359561,6359563-6359569 UNSPK: 6359559								
Acenaphthene	105	96	75-115	9	30				
Acenaphthylene	112*	97	81-110	14	30				
Aniline	74	67	18-116	10	30				
Anthracene	118*	100	75-115	16	30				
Benzidine	26*	28*	35-141	7	30				
Benzo(a)anthracene	105	91	65-122	14	30				
Benzo(a)pyrene	108	96	57-126	12	30				
Benzo(b)fluoranthene	108	103	59-125	4	30				
Benzo(g,h,i)perylene	117	109	59-127	7	30				
Benzo(k)fluoranthene	119	96	56-132	21	30				
Benzoic acid	45	36	10-173	21	30				
Benzyl alcohol	93	88	67-115	6	30				
4-Bromophenyl-phenylether	115	95	67-129	19	30				
Butylbenzylphthalate	109	100	73-134	8	30				
Di-n-butylphthalate	117	96	67-123	20	30				
Carbazole	113	94	64-120	19	30				
4-Chloro-3-methylphenol	111	90	62-122	20	30				
4-Chloroaniline	72	61	13-107	17	30				
bis(2-Chloroethoxy)methane	100	90	75-104	10	30				
bis(2-Chloroethyl)ether	94	86	60-116	9	30				
bis(2-Chloroisopropyl)ether	95	88	55-142	8	30				
2-Chloronaphthalene	98	94	50-141	4	30				
2-Chlorophenol	93	92	73-121	1	30				
4-Chlorophenyl-phenylether	99	97	80-109	2	30				
Chrysene	93	94	62-128	2	30				
Dibenz(a,h)anthracene	119	106	65-125	12	30				
Dibenzofuran	102	89	71-112	14	30				
1,2-Dichlorobenzene	86	80	66-108	7	30				
1,3-Dichlorobenzene	86	81	63-109	6	30				
1,4-Dichlorobenzene	89	89	58-108	1	30				
3,3'-Dichlorobenzidine	64	49	28-109	27	30				
2,4-Dichlorophenol	109	99	66-123	10	30				
Diethylphthalate	104	100	66-118	4	30				
2,4-Dimethylphenol	104	92	68-118	12	30				
3,5-Dimethylphenol	0*	0*	71-127	0	30				
Dimethylphthalate	103	96	64-118	6	30				
4,6-Dinitro-2-methylphenol	99	50	11-126	66*	30				
2,4-Dinitrophenol	60	20	20-143	100*	30				
2,4-Dinitrotoluene	112	101	56-129	10	30				
2,6-Dinitrotoluene	116	107	69-123	9	30				
1,2-Diphenylhydrazine	118	105	71-129	11	30				
bis(2-Ethylhexyl)phthalate	110	98	63-122	11	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258927
Reported: 08/24/11 at 10:35 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Fluoranthene	113*	96	73-112	16	30				
Fluorene	107	99	63-121	8	30				
Hexachlorobenzene	114	97	77-114	16	30				
Hexachlorobutadiene	95	87	62-120	9	30				
Hexachlorocyclopentadiene	52	82	10-153	44*	30				
Hexachloroethane	91	85	57-109	7	30				
Indeno(1,2,3-cd)pyrene	126	99	61-126	24	30				
Isophorone	103*	94	73-102	9	30				
1-Methylnaphthalene	95	86	64-122	10	30				
2-Methylnaphthalene	104	87	76-114	18	30				
2-Methylphenol	95	92	75-111	4	30				
4-Methylphenol	89	84	59-123	6	30				
Naphthalene	102	86	72-116	17	30				
2-Nitroaniline	109	106	67-125	2	30				
3-Nitroaniline	98	94	59-122	4	30				
4-Nitroaniline	84	74	41-109	12	30				
Nitrobenzene	106	95	57-125	11	30				
2-Nitrophenol	96	91	56-127	5	30				
4-Nitrophenol	99	88	37-129	12	30				
N-Nitroso-di-n-propylamine	94	88	60-116	6	30				
N-Nitrosodimethylamine	101	93	47-116	8	30				
N-Nitrosodiphenylamine	120	98	71-122	20	30				
Di-n-octylphthalate	112	117	56-126	4	30				
Pentachlorophenol	102	73	28-127	33*	30				
Phenanthrene	119	96	65-125	22	30				
Phenol	90	83	58-126	8	30				
Pyrene	102	93	74-126	10	30				
1,2,4-Trichlorobenzene	95	86	72-115	11	30				
2,4,5-Trichlorophenol	111	99	58-129	12	30				
2,4,6-Trichlorophenol	106	97	56-134	9	30				
Batch number: 11221SLC026	Sample number(s): 6359557-6359561,6359563-6359569 UNSPK: 6359559								
Acenaphthene	92	94	63-105	2	30				
Acenaphthylene	93	95	67-114	2	30				
Anthracene	97	99	73-115	2	30				
Benzo(a)anthracene	102	105	59-128	3	30				
Benzo(a)pyrene	89	92	58-142	3	30				
Benzo(b)fluoranthene	116	118	54-163	2	30				
Benzo(g,h,i)perylene	47	47	33-141	0	30				
Benzo(k)fluoranthene	88	90	57-153	2	30				
Butylbenzylphthalate	125	128	57-173	3	30				
Di-n-butylphthalate	129	128	65-148	1	30				
Chrysene	101	103	67-123	2	30				
Dibenz(a,h)anthracene	62	63	22-133	1	30				
Diethylphthalate	85	88	70-136	4	30				
Dimethylphthalate	105	107	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	118	119	39-167	0	30				
Fluoranthene	105	110	51-149	5	30				
Fluorene	101	102	66-122	1	30				
Indeno(1,2,3-cd)pyrene	56	57	21-143	2	30				
1-Methylnaphthalene	88	89	72-123	1	30				
2-Methylnaphthalene	87	66	64-103	27	30				
Naphthalene	90	91	61-102	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258927
Reported: 08/24/11 at 10:35 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
N-Nitrosodimethylamine	95	91	48-113	4	30				
Di-n-octylphthalate	109	111	40-192	2	30				
Phenanthrene	96	97	62-122	1	30				
Pyrene	103	107	51-131	3	30				
Batch number: 11215A34A	Sample number(s): 6359565-6359569 UNSPK: P360506								
9a TPH by EPA 8015B Gas C5-C12	76	82	39-118	3	30				
Batch number: 112200028A	Sample number(s): 6359563,6359565 UNSPK: P355050								
6a Perchlorate EPA 6850	107	115	80-120	7	20				
Batch number: 112210019A	Sample number(s): 6359557-6359561,6359563-6359569 UNSPK: 6359559								
PCB-1016	85	91	29-146	6	50				
PCB-1260	91	89	39-149	3	50				
Batch number: 112130002A	Sample number(s): 6359565-6359569 UNSPK: P360506								
Diethylene glycol	34*	32*	59-109	5	20				
Ethylene glycol	66	61*	63-107	9	20				
Propylene glycol	70	65	63-107	7	20				
Batch number: 112130034A	Sample number(s): 6359565-6359569 UNSPK: P360506								
Ethanol	86	88	48-130	3	20				
Isopropanol	82	87	12-149	6	20				
Methanol	79	83	43-138	4	20				
Batch number: 112200040A	Sample number(s): 6359565-6359569 UNSPK: P358385								
m-Terphenyl	82	91	75-125	10	20				
o-Terphenyl	85	99	75-125	15	20				
p-Terphenyl	80	79	75-125	2	20				
Batch number: 112210020A	Sample number(s): 6359565-6359569 UNSPK: P360506								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	121	179*	49-123	39*	20				
EFH (C21-C30)	177*	301*	49-123	22*	20				
EFH (C30 - C40)	132 (2)	164 (2)	49-123	4	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 112141026002A	Sample number(s): 6359557-6359569 UNSPK: 6359559 BKG: 6359559								
Antimony	30*	28*	75-125	6	20	0.149 J	0.118 J	23* (1)	20
Arsenic	89	83 (2)	75-125	2	20	7.70	7.38	4	20
Beryllium	82	82	75-125	1	20	0.749	0.749	0	20
Cadmium	103	99	75-125	5	20	0.242	0.230	5 (1)	20
Chromium	91	84	75-125	2	20	28.4	28.5	0	20
Cobalt	97	95	75-125	4	20	9.14	9.21	1	20
Copper	96	91	75-125	3	20	13.9	14.0	1	20
Lead	108	94	75-125	5	20	8.41	8.39	0	20
Nickel	101	92	75-125	4	20	21.0	20.5	2	20
Silver	98	100	75-125	0	20	0.0390 J	0.0385 J	1 (1)	20
Thallium	100	89	75-125	8	20	0.319	0.306	4 (1)	20
Vanadium	118 (2)	95 (2)	75-125	4	20	55.2	55.0	0	20
Zinc	107 (2)	76 (2)	75-125	5	20	62.4	63.1	1	20
Batch number: 112141026002B	Sample number(s): 6359557-6359569 UNSPK: 6359559 BKG: 6359559								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258927
Reported: 08/24/11 at 10:35 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Selenium	93	89	75-125	7	20	0.152 J	0.162 J	6 (1)	20
Batch number: 112141026002C	Sample number(s): 6359557-6359569 UNSPK: 6359559 BKG: 6359559								
Molybdenum	90	92	75-125	0	20	0.496	0.394	23* (1)	20
Batch number: 112141026002D	Sample number(s): 6359557-6359569 UNSPK: 6359559 BKG: 6359559								
Barium	129 (2)	87 (2)	75-125	3	20	119	122	3	20
Batch number: 112145708006	Sample number(s): 6359557-6359569 UNSPK: 6359559 BKG: 6359559								
Aluminum	2654 (2)	2424 (2)	75-125	1	20	29,400	30,500	4	20
Boron	94	94	84-115	3	20	4.54 J	4.19 J	8 (1)	20
Calcium	-187 (2)	-37 (2)	75-125	4	20	14,700	16,100	9	20
Iron	2551 (2)	914 (2)	75-125	5	20	29,100	31,600	8	20
Lithium	103	100	82-114	1	20	27.4	28.4	4	20
Magnesium	377 (2)	294 (2)	75-125	2	20	6,930	7,270	5	20
Manganese	113 (2)	67 (2)	75-125	5	20	345	371	7	20
Phosphorus	88	89	75-125	1	20	250	253	1	20
Potassium	145*	142*	75-125	1	20	3,390	3,490	3	20
Sodium	96	94	75-125	2	20	128	133	4 (1)	20
Strontium	95	93	75-115	2	20	32.2	35.9	11	20
Tin	80	79*	80-110	2	20	2.39 J	2.66 J	11 (1)	20
Titanium	252 (2)	253 (2)	75-125	1	20	1,180	1,140	4	20
Zirconium	91	90	75-125	2	20	5.47	5.92	8 (1)	20
Batch number: 112145711003	Sample number(s): 6359557-6359569 UNSPK: 6359559 BKG: 6359559								
Mercury	99	101	65-135	0	20	0.0107 J	0.0103 J	4 (1)	20
Batch number: 11216284202A	Sample number(s): 6359557-6359560,6359562-6359569 UNSPK: 6359559 BKG: 6359559								
7a Perchlorate EPA 314.0	95		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11217621201A	Sample number(s): 6359557-6359560,6359562-6359569 UNSPK: 6359559 BKG: 6359559								
11a Anions by 300.0 - Fluoride	64*		80-120			5.9	5.9	0	20
Batch number: 11227243201A	Sample number(s): 6359557-6359560,6359562-6359569 UNSPK: 6359559 BKG: 6359559								
3a Cr VI by EPA 7199	94		75-125			0.22 J	0.45 J	70* (1)	20
Batch number: 11215039402A	Sample number(s): 6359557-6359559,6359562-6359568 BKG: 6359559								
17a pH by 9045C						8.20	8.10	1	3
Batch number: 11215039402B	Sample number(s): 6359569 BKG: 6359569								
17a pH by 9045C						7.03	7.02	0	3
Batch number: 11217162402B	Sample number(s): 6359557-6359569 BKG: 6359559								
28a Moisture Content by 160.3						10.9	10.9	0	20
Moisture Content by 160.3						10.9	10.9	0	20
Moisture Content by 160.3						10.9	10.9	0	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258927
Reported: 08/24/11 at 10:35 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11220SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6359557	88	85	107	87	85	85
6359558	96	99	93	86	86	88
6359559	85	90	89	84	88	84
6359560	92	92	89	95	91	94
6359561	87	86	101	87	90	76
6359563	91	92	81	84	87	81
6359564	89	91	87	84	86	97
6359565	103	102	96	89	90	90
6359566	88	92	81	87	96	77
6359567	88	87	92	83	83	79
6359568	95	90	77	99	86	87
6359569	87	89	98	99	95	89
Blank	93	93	93	95	92	87
LCS	92	93	96	93	99	84
MS	92	92	89	95	91	94
MSD	87	86	101	87	90	76
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11221SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6359557	94	85	98
6359558	100	92	125
6359559	96	88	102
6359560	100	90	99
6359561	99	74	98
6359563	98	89	100
6359564	99	89	100
6359565	97	89	103
6359566	87	80	96
6359567	89	80	91
6359568	98	90	101
6359569	101	90	113
Blank	95	88	106
LCS	93	85	97
MS	100	90	99
MSD	99	74	98
Limits:	40-130	45-130	45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11215A20A

	Trifluorotoluene-F
6359570	97
Blank	98
LCS	152*
LCSD	150*

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258927
Reported: 08/24/11 at 10:35 AM

Surrogate Quality Control

Limits: 63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11215A34A

	Trifluorotoluene-F
6359565	98
6359567	85
6359568	78
6359569	83
Blank	96
LCS	98
MS	85
MSD	93

Limits: 61-122

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112210019A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6359557	79	70
6359558	97	81
6359559	100	105
6359560	83	101
6359561	91	97
6359563	95	89
6359564	95	88
6359565	95	88
6359566	76	95
6359567	86	93
6359568	94	150*
6359569	84	82
Blank	101	84
LCS	100	91
LCSD	99	104
MS	83	101
MSD	91	97

Limits: 53-139 45-120

Analysis Name: 19a Glycols by 8015B
Batch number: 112130002A

	Tetramethylene glycol
6359565	90
6359566	83
6359567	87
6359568	84
6359569	84
Blank	109
LCS	103
MS	88
MSD	87

Limits: 29-137

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258927
Reported: 08/24/11 at 10:35 AM

Surrogate Quality Control

Analysis Name: 18a Alcohols by 8015B
Batch number: 112130034A

	Acetone
6359565	83
6359566	83
6359567	90
6359568	84
6359569	86
Blank	97
LCS	99
MS	85
MSD	84
Limits:	42-138

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112200040A

	n-Triacontane-d62
6359565	82
6359566	74
6359567	71
6359568	80
6359569	71
Blank	77
LCS	78
MS	0*
MSD	0*
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112210020A

	Chlorobenzene	Orthoterphenyl
6359565	71	81
6359566	63	69
6359567	69	77
6359568	67	70
6359569	62	79
Blank	80	88
LCS	89	98
MS	77	86
MSD	76	85
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Qp#1758927 sample#6359557-70

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	Other Instructions and Notes
SL-172-SA5DN-SB-4.0-5.0	7/28/11	1204	SOIL	NONE	2- 16 oz Jars	X	X	X	X	X	X	X	X		
SL-172-SA5DN-SB-9.0-10.0	7/28/11	1209	SOIL	NONE	2- 16 oz Jars	X	X	X	X	X	X	X	X		
SL-183-SA5DN-SB-4.0-5.0MS	7/28/11	1011	SOIL	NONE	4- 16 oz Jars	X	X	X	X	X	X	X	X		**MS/MSD-only 4 collected**
SL-183-SA5DN-SB-9.0-10.0	7/28/11	1030	SOIL	NONE	2- 16 oz Jars	X	X	X	X	X	X	X	X	X	
DUP21-SA5DN-QC-072811	7/28/11	1019	SOIL	NONE	2- 16 oz Jars	X	X	X	X	X	X	X	X		

Relinquished by: (*Signature*)	Date/Time: 07/28/2011 / 1600	Received for Laboratory by: (*Signature*) LLJ 7/29/11 910	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s): 8754 3340 0266,0277	

acct# 13013 Cp# 1258927 Sample# 6359557-70

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&/471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-068-SA6-SB-4.5	7/28/11	0735	SOIL	NONE	2-Encores										X										
SL-068-SA6-SB-4.0-5.0	7/28/11	0740	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X		X						X	X	X	
SL-068-SA6-SB-19.5	7/28/11	0745	SOIL	NONE	2-Encores										X										
SL-068-SA6-SB-19.0-20.0	7/28/11	0750	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-070-SA6-SB-4.5	7/28/11	1015	SOIL	NONE	2-Encores										X										
SL-070-SA6-SB-4.0-5.0	7/28/11	1020	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-070-SA6-SB-19.5	7/28/11	1025	SOIL	NONE	2-Encores										X										
SL-070-SA6-SB-19.0-20.0	7/28/11	1130	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-090-SA6-SB-3.5	7/28/11	1115	SOIL	NONE	2-Encores										X										
SL-090-SA6-SB-3.0-4.0	7/28/11	1120	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
TB-072811	7/28/11	0800	WATER	NONE	2-40mL Vials										X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	07/28/2011 / 1600	LLT 7/29/11 910	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8754 3340 0266,0277	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/29/2011
Group Number: 1258930
SDG: DX121
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-172-SA5DN-SB-4.0-5.0 Soil	6359580
SL-172-SA5DN-SB-9.0-10.0 Soil	6359581
SL-183-SA5DN-SB-4.0-5.0 Soil	6359582
SL-183-SA5DN-SB-4.0-5.0MS Soil	6359583
SL-183-SA5DN-SB-4.0-5.0MSD Soil	6359584
SL-183-SA5DN-SB-9.0-10.0 Soil	6359585
DUP21-SA5DN-QC-072811 Soil	6359586
SL-068-SA6-SB-4.0-5.0 Soil	6359587
SL-068-SA6-SB-19.0-20.0 Soil	6359588
SL-070-SA6-SB-4.0-5.0 Soil	6359589
SL-070-SA6-SB-19.0-20.0 Soil	6359590
SL-090-SA6-SB-3.0-4.0 Soil	6359591

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-172-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359580
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 12:04

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2101 SDG#: DX121-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-172-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359580
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 12:04

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2101 SDG#: DX121-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0186	JQ	0.0165	1.11	1
11031	12378-PeCDD	40321-76-4	0.119	JB	0.0203	5.53	1
11031	123478-HxCDD	39227-28-6	0.158	J	0.0402	5.53	1
11031	123678-HxCDD	57653-85-7	0.413	JB	0.0420	5.53	1
11031	123789-HxCDD	19408-74-3	0.467	JB	0.0386	5.53	1
11031	1234678-HpCDD	35822-46-9	8.79	B	0.0347	5.53	1
11031	OCDD	3268-87-9	155	B	0.0222	11.1	1
11031	2378-TCDF	51207-31-9	0.0254	U	0.0254	1.11	1
11031	12378-PeCDF	57117-41-6	0.190	JB	0.0163	5.53	1
11031	23478-PeCDF	57117-31-4	0.112	JBQ	0.0195	5.53	1
11031	123478-HxCDF	70648-26-9	0.0874	JB	0.0265	5.53	1
11031	123678-HxCDF	57117-44-9	0.0721	JBQ	0.0223	5.53	1
11031	123789-HxCDF	72918-21-9	0.320	JB	0.0311	5.53	1
11031	234678-HxCDF	60851-34-5	0.0825	JB	0.0255	5.53	1
11031	1234678-HpCDF	67562-39-4	0.756	JB	0.0116	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0873	JBQ	0.0243	5.53	1
11031	OCDF	39001-02-0	1.88	JB	0.0251	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	99	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	92	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	113	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	68	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-172-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359580
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 12:04

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2101 SDG#: DX121-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-172-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359580
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 12:04

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2101 SDG#: DX121-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11223001	08/15/2011 19:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11223001	08/11/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402B	08/05/2011 19:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-172-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5DN-SB-9.0-10.0

LLI Sample # SW 6359581
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 12:09

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2102 SDG#: DX121-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-172-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5DN-SB-9.0-10.0

LLI Sample # SW 6359581
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 12:09

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2102 SDG#: DX121-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0220	JQ	0.0169	1.17	1
11031	12378-PeCDD	40321-76-4	0.0700	JBQ	0.0175	5.85	1
11031	123478-HxCDD	39227-28-6	0.0893	J	0.0277	5.85	1
11031	123678-HxCDD	57653-85-7	0.224	JB	0.0271	5.85	1
11031	123789-HxCDD	19408-74-3	0.201	JB	0.0264	5.85	1
11031	1234678-HpCDD	35822-46-9	5.67	JB	0.0270	5.85	1
11031	OCDD	3268-87-9	103	B	0.0161	11.7	1
11031	2378-TCDF	51207-31-9	0.0239	U	0.0239	1.17	1
11031	12378-PeCDF	57117-41-6	0.0625	JBQ	0.0123	5.85	1
11031	23478-PeCDF	57117-31-4	0.0553	JBQ	0.0139	5.85	1
11031	123478-HxCDF	70648-26-9	0.0767	JBQ	0.0173	5.85	1
11031	123678-HxCDF	57117-44-9	0.0417	JB	0.0142	5.85	1
11031	123789-HxCDF	72918-21-9	0.0562	JB	0.0228	5.85	1
11031	234678-HxCDF	60851-34-5	0.0506	JB	0.0158	5.85	1
11031	1234678-HpCDF	67562-39-4	0.732	JB	0.00993	5.85	1
11031	1234789-HpCDF	55673-89-7	0.0718	JBQ	0.0202	5.85	1
11031	OCDF	39001-02-0	1.98	JB	0.0201	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	113	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	98	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	90	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	120	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	81	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-172-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA5DN-SB-9.0-10.0

LLI Sample # SW 6359581
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 12:09

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2102 SDG#: DX121-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-172-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5DN-SB-9.0-10.0

LLI Sample # SW 6359581
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 12:09

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2102 SDG#: DX121-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11223001	08/15/2011 20:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11223001	08/11/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402B	08/05/2011 19:10	Scott W Freisher	1

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Analysis Report

Sample Description: SL-183-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359582
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2103 SDG#: DX121-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-183-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359582
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2103 SDG#: DX121-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0131 U	0.0131	1.09	1
11031	12378-PeCDD	40321-76-4	0.0194 JBQ	0.0145	5.45	1
11031	123478-HxCDD	39227-28-6	0.0161 J	0.0130	5.45	1
11031	123678-HxCDD	57653-85-7	0.0411 JBQ	0.0135	5.45	1
11031	123789-HxCDD	19408-74-3	0.0713 JBQ	0.0132	5.45	1
11031	1234678-HpCDD	35822-46-9	0.800 JB	0.0184	5.45	1
11031	OCDD	3268-87-9	4.73 JB	0.0176	10.9	1
11031	2378-TCDF	51207-31-9	0.0159 U	0.0159	1.09	1
11031	12378-PeCDF	57117-41-6	0.0458 JBQ	0.00808	5.45	1
11031	23478-PeCDF	57117-31-4	0.0562 JBQ	0.00965	5.45	1
11031	123478-HxCDF	70648-26-9	0.0386 JB	0.00999	5.45	1
11031	123678-HxCDF	57117-44-9	0.0120 JBQ	0.00752	5.45	1
11031	123789-HxCDF	72918-21-9	0.0527 JBQ	0.0112	5.45	1
11031	234678-HxCDF	60851-34-5	0.0277 JBQ	0.00853	5.45	1
11031	1234678-HpCDF	67562-39-4	0.113 JBQ	0.00617	5.45	1
11031	1234789-HpCDF	55673-89-7	0.0361 JBQ	0.0175	5.45	1
11031	OCDF	39001-02-0	0.309 JB	0.0248	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	123	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	49	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-183-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359582
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2103 SDG#: DX121-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-183-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359582
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2103 SDG#: DX121-03BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11223001	08/15/2011 21:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11223001	08/11/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402B	08/05/2011 19:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359583
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2103 SDG#: DX121-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-183-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359583
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X2103 SDG#: DX121-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.9		0.0186	1.12	1
11031	12378-PeCDD	40321-76-4	120	B	0.0374	5.61	1
11031	123478-HxCDD	39227-28-6	123		0.0333	5.61	1
11031	123678-HxCDD	57653-85-7	123	B	0.0348	5.61	1
11031	123789-HxCDD	19408-74-3	120	B	0.0309	5.61	1
11031	1234678-HpCDD	35822-46-9	117	B	0.0276	5.61	1
11031	OCDD	3268-87-9	247	B	0.0196	11.2	1
11031	2378-TCDF	51207-31-9	25.9		0.0410	1.12	1
11031	12378-PeCDF	57117-41-6	126	B	0.0211	5.61	1
11031	23478-PeCDF	57117-31-4	127	B	0.0253	5.61	1
11031	123478-HxCDF	70648-26-9	127	B	0.0437	5.61	1
11031	123678-HxCDF	57117-44-9	124	B	0.0337	5.61	1
11031	123789-HxCDF	72918-21-9	125	B	0.0525	5.61	1
11031	234678-HxCDF	60851-34-5	126	B	0.0401	5.61	1
11031	1234678-HpCDF	67562-39-4	123	B	0.0224	5.61	1
11031	1234789-HpCDF	55673-89-7	122	B	0.0476	5.61	1
11031	OCDF	39001-02-0	244	B	0.0306	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	92	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	108	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	62	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359583
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2103 SDG#: DX121-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359583
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2103 SDG#: DX121-03MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11223001	08/15/2011 22:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11223001	08/11/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402B	08/05/2011 19:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359584
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2103 SDG#: DX121-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-183-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359584
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2103 SDG#: DX121-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.3		0.0212	1.10	1
11031	12378-PeCDD	40321-76-4	120	B	0.0342	5.51	1
11031	123478-HxCDD	39227-28-6	123		0.0435	5.51	1
11031	123678-HxCDD	57653-85-7	120	B	0.0447	5.51	1
11031	123789-HxCDD	19408-74-3	121	B	0.0407	5.51	1
11031	1234678-HpCDD	35822-46-9	120	B	0.0330	5.51	1
11031	OCDD	3268-87-9	249	B	0.0273	11.0	1
11031	2378-TCDF	51207-31-9	25.1		0.0340	1.10	1
11031	12378-PeCDF	57117-41-6	124	B	0.0205	5.51	1
11031	23478-PeCDF	57117-31-4	121	B	0.0253	5.51	1
11031	123478-HxCDF	70648-26-9	121	B	0.0636	5.51	1
11031	123678-HxCDF	57117-44-9	117	B	0.0459	5.51	1
11031	123789-HxCDF	72918-21-9	118	B	0.0678	5.51	1
11031	234678-HxCDF	60851-34-5	126	B	0.0567	5.51	1
11031	1234678-HpCDF	67562-39-4	125	B	0.0229	5.51	1
11031	1234789-HpCDF	55673-89-7	121	B	0.0553	5.51	1
11031	OCDF	39001-02-0	250	B	0.0352	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	95	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	121	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	51	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-183-SA5DN-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359584
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2103 SDG#: DX121-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-4.0-5.0

LLI Sample # SW 6359584
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:11

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2103 SDG#: DX121-03MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11223001	08/15/2011 23:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11223001	08/11/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402B	08/05/2011 19:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-9.0-10.0

LLI Sample # SW 6359585
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:30

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2104 SDG#: DX121-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-183-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-9.0-10.0

LLI Sample # SW 6359585
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:30

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2104 SDG#: DX121-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0112 JQ	0.0111	1.14	1
11031	12378-PeCDD	40321-76-4	0.0518 JBQ	0.0127	5.70	1
11031	123478-HxCDD	39227-28-6	0.0677 J	0.0143	5.70	1
11031	123678-HxCDD	57653-85-7	0.0725 JBQ	0.0147	5.70	1
11031	123789-HxCDD	19408-74-3	0.0723 JBQ	0.0128	5.70	1
11031	1234678-HpCDD	35822-46-9	0.554 JB	0.0177	5.70	1
11031	OCDD	3268-87-9	2.78 JB	0.0173	11.4	1
11031	2378-TCDF	51207-31-9	0.0127 U	0.0127	1.14	1
11031	12378-PeCDF	57117-41-6	0.0652 JBQ	0.00654	5.70	1
11031	23478-PeCDF	57117-31-4	0.0840 JB	0.00849	5.70	1
11031	123478-HxCDF	70648-26-9	0.0924 JBQ	0.0126	5.70	1
11031	123678-HxCDF	57117-44-9	0.0735 JBQ	0.00894	5.70	1
11031	123789-HxCDF	72918-21-9	0.0947 JB	0.0119	5.70	1
11031	234678-HxCDF	60851-34-5	0.0702 JB	0.00849	5.70	1
11031	1234678-HpCDF	67562-39-4	0.109 JB	0.00803	5.70	1
11031	1234789-HpCDF	55673-89-7	0.0807 JB	0.0157	5.70	1
11031	OCDF	39001-02-0	0.310 JB	0.0237	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	53	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	49	26 - 138
13C12-OCDF	45	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-9.0-10.0

LLI Sample # SW 6359585
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:30

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2104 SDG#: DX121-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-183-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SB-9.0-10.0

LLI Sample # SW 6359585
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:30

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2104 SDG#: DX121-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11223001	08/16/2011 00:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11223001	08/11/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402B	08/05/2011 19:10	Scott W Freisher	1

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Analysis Report

Sample Description: DUP21-SA5DN-QC-072811 Soil
SSFL Area IV Collocated Soil Sampling
DUP21-SA5DN-QC-072811

LLI Sample # SW 6359586
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:19

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2105 SDG#: DX121-05FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP21-SA5DN-QC-072811 Soil
SSFL Area IV Collocated Soil Sampling
DUP21-SA5DN-QC-072811

LLI Sample # SW 6359586
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:19

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2105 SDG#: DX121-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0101	U	0.0101	1.08	1
11031	12378-PeCDD	40321-76-4	0.0105	U	0.0105	5.42	1
11031	123478-HxCDD	39227-28-6	0.0398	JQ	0.0134	5.42	1
11031	123678-HxCDD	57653-85-7	0.0870	JBQ	0.0137	5.42	1
11031	123789-HxCDD	19408-74-3	0.0919	JB	0.0132	5.42	1
11031	1234678-HpCDD	35822-46-9	1.12	JB	0.0169	5.42	1
11031	OCDD	3268-87-9	8.41	JB	0.0130	10.8	1
11031	2378-TCDF	51207-31-9	0.0235	JQ	0.0121	1.08	1
11031	12378-PeCDF	57117-41-6	0.0467	JBQ	0.00721	5.42	1
11031	23478-PeCDF	57117-31-4	0.0711	JBQ	0.00798	5.42	1
11031	123478-HxCDF	70648-26-9	0.0536	JB	0.0112	5.42	1
11031	123678-HxCDF	57117-44-9	0.0378	JBQ	0.00831	5.42	1
11031	123789-HxCDF	72918-21-9	0.0923	JBQ	0.0133	5.42	1
11031	234678-HxCDF	60851-34-5	0.0484	JB	0.00931	5.42	1
11031	1234678-HpCDF	67562-39-4	0.177	JB	0.00765	5.42	1
11031	1234789-HpCDF	55673-89-7	0.0442	JB	0.0185	5.42	1
11031	OCDF	39001-02-0	0.432	JB	0.0222	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	107	28 - 143
13C12-1234789-HpCDF	49	26 - 138
13C12-OCDF	50	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP21-SA5DN-QC-072811 Soil
SSFL Area IV Collocated Soil Sampling
DUP21-SA5DN-QC-072811

LLI Sample # SW 6359586
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:19

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2105 SDG#: DX121-05FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP21-SA5DN-QC-072811 Soil
SSFL Area IV Collocated Soil Sampling
DUP21-SA5DN-QC-072811

LLI Sample # SW 6359586
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:19

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2105 SDG#: DX121-05FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11223001	08/16/2011 01:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11223001	08/11/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402B	08/05/2011 19:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-068-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA6-SB-4.0-5.0

LLI Sample # SW 6359587
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 07:40

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2106 SDG#: DX121-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-068-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA6-SB-4.0-5.0

LLI Sample # SW 6359587
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 07:40

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2106 SDG#: DX121-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0776	J	0.0118	1.07	1
11031	12378-PeCDD	40321-76-4	0.146	JB	0.0145	5.34	1
11031	123478-HxCDD	39227-28-6	0.142	J	0.0261	5.34	1
11031	123678-HxCDD	57653-85-7	0.453	JB	0.0255	5.34	1
11031	123789-HxCDD	19408-74-3	0.203	JB	0.0252	5.34	1
11031	1234678-HpCDD	35822-46-9	30.3	B	0.0391	5.34	1
11031	OCDD	3268-87-9	411	B	0.0213	10.7	1
11031	2378-TCDF	51207-31-9	0.0796	JQ	0.0204	1.07	1
11031	12378-PeCDF	57117-41-6	0.204	JB	0.0161	5.34	1
11031	23478-PeCDF	57117-31-4	0.183	JBQ	0.0163	5.34	1
11031	123478-HxCDF	70648-26-9	0.257	JB	0.0224	5.34	1
11031	123678-HxCDF	57117-44-9	0.158	JB	0.0188	5.34	1
11031	123789-HxCDF	72918-21-9	0.0896	JB	0.0197	5.34	1
11031	234678-HxCDF	60851-34-5	0.188	JB	0.0190	5.34	1
11031	1234678-HpCDF	67562-39-4	1.35	JB	0.0122	5.34	1
11031	1234789-HpCDF	55673-89-7	0.227	JB	0.0185	5.34	1
11031	OCDF	39001-02-0	2.96	JB	0.0182	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	93	25 - 164
13C12-12378-PeCDD	100	25 - 181
13C12-123478-HxCDD	95	32 - 141
13C12-123678-HxCDD	95	28 - 130
13C12-123789-HxCDD	97	28 - 130
13C12-1234678-HpCDD	99	23 - 140
13C12-OCDD	107	17 - 157
13C12-2378-TCDF	88	24 - 169
13C12-12378-PeCDF	100	24 - 185
13C12-23478-PeCDF	92	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	106	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	83	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-068-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA6-SB-4.0-5.0

LLI Sample # SW 6359587
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 07:40

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2106 SDG#: DX121-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-068-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA6-SB-4.0-5.0

LLI Sample # SW 6359587
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 07:40

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2106 SDG#: DX121-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11223001	08/16/2011 14:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11223001	08/11/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402B	08/05/2011 19:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-068-SA6-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA6-SB-19.0-20.0

LLI Sample # SW 6359588
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 07:50

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2107 SDG#: DX121-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-068-SA6-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA6-SB-19.0-20.0

LLI Sample # SW 6359588
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 07:50

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2107 SDG#: DX121-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.148	J	0.0131	1.13	1
11031	12378-PeCDD	40321-76-4	0.321	JB	0.0236	5.63	1
11031	123478-HxCDD	39227-28-6	0.621	J	0.0322	5.63	1
11031	123678-HxCDD	57653-85-7	2.02	JB	0.0330	5.63	1
11031	123789-HxCDD	19408-74-3	0.767	JB	0.0318	5.63	1
11031	1234678-HpCDD	35822-46-9	94.7	B	0.0524	5.63	1
11031	OCDD	3268-87-9	1,230	B	0.0320	11.3	1
11031	2378-TCDF	51207-31-9	0.338	J	0.0274	1.13	1
11031	12378-PeCDF	57117-41-6	0.513	JB	0.0172	5.63	1
11031	23478-PeCDF	57117-31-4	0.423	JB	0.0207	5.63	1
11031	123478-HxCDF	70648-26-9	0.666	JB	0.0266	5.63	1
11031	123678-HxCDF	57117-44-9	0.502	JB	0.0218	5.63	1
11031	123789-HxCDF	72918-21-9	0.263	JB	0.0224	5.63	1
11031	234678-HxCDF	60851-34-5	0.635	JB	0.0224	5.63	1
11031	1234678-HpCDF	67562-39-4	8.01	B	0.0194	5.63	1
11031	1234789-HpCDF	55673-89-7	0.940	JB	0.0313	5.63	1
11031	OCDF	39001-02-0	21.3	B	0.0211	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	65	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-068-SA6-SB-19.0-20.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-068-SA6-SB-19.0-20.0

LLI Sample # SW 6359588
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 07:50

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2107 SDG#: DX121-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-068-SA6-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA6-SB-19.0-20.0

LLI Sample # SW 6359588
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 07:50

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2107 SDG#: DX121-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11223001	08/16/2011 15:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11223001	08/11/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402B	08/05/2011 19:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-070-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA6-SB-4.0-5.0

LLI Sample # SW 6359589
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:20

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2108 SDG#: DX121-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-070-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA6-SB-4.0-5.0

LLI Sample # SW 6359589
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:20

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2108 SDG#: DX121-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0846	J	0.0120	1.08	1
11031	12378-PeCDD	40321-76-4	0.249	JBQ	0.0136	5.42	1
11031	123478-HxCDD	39227-28-6	0.121	J	0.0180	5.42	1
11031	123678-HxCDD	57653-85-7	0.234	JB	0.0181	5.42	1
11031	123789-HxCDD	19408-74-3	0.177	JB	0.0177	5.42	1
11031	1234678-HpCDD	35822-46-9	8.29	B	0.0230	5.42	1
11031	OCDD	3268-87-9	86.1	B	0.0138	10.8	1
11031	2378-TCDF	51207-31-9	0.110	J	0.0180	1.08	1
11031	12378-PeCDF	57117-41-6	0.361	JB	0.00973	5.42	1
11031	23478-PeCDF	57117-31-4	0.258	JB	0.0120	5.42	1
11031	123478-HxCDF	70648-26-9	0.224	JB	0.0213	5.42	1
11031	123678-HxCDF	57117-44-9	0.169	JB	0.0150	5.42	1
11031	123789-HxCDF	72918-21-9	0.149	JB	0.0185	5.42	1
11031	234678-HxCDF	60851-34-5	0.149	JB	0.0161	5.42	1
11031	1234678-HpCDF	67562-39-4	0.696	JB	0.0111	5.42	1
11031	1234789-HpCDF	55673-89-7	0.163	JB	0.0251	5.42	1
11031	OCDF	39001-02-0	1.73	JB	0.0206	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	49	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-070-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA6-SB-4.0-5.0

LLI Sample # SW 6359589
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:20

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2108 SDG#: DX121-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-070-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA6-SB-4.0-5.0

LLI Sample # SW 6359589
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 10:20

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2108 SDG#: DX121-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11223001	08/16/2011 16:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11223001	08/11/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402B	08/05/2011 19:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-070-SA6-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA6-SB-19.0-20.0

LLI Sample # SW 6359590
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 11:30

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2109 SDG#: DX121-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-070-SA6-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA6-SB-19.0-20.0

LLI Sample # SW 6359590
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 11:30

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2109 SDG#: DX121-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0859	JQ	0.0136	1.19	1
11031	12378-PeCDD	40321-76-4	0.182	JB	0.0276	5.93	1
11031	123478-HxCDD	39227-28-6	0.343	J	0.0361	5.93	1
11031	123678-HxCDD	57653-85-7	1.43	JB	0.0373	5.93	1
11031	123789-HxCDD	19408-74-3	0.679	JB	0.0349	5.93	1
11031	1234678-HpCDD	35822-46-9	71.6	B	0.0625	5.93	1
11031	OCDD	3268-87-9	929	B	0.0365	11.9	1
11031	2378-TCDF	51207-31-9	0.270	JQ	0.0339	1.19	1
11031	12378-PeCDF	57117-41-6	0.705	JB	0.0224	5.93	1
11031	23478-PeCDF	57117-31-4	0.203	JB	0.0252	5.93	1
11031	123478-HxCDF	70648-26-9	0.408	JB	0.0251	5.93	1
11031	123678-HxCDF	57117-44-9	0.233	JB	0.0227	5.93	1
11031	123789-HxCDF	72918-21-9	0.103	JB	0.0274	5.93	1
11031	234678-HxCDF	60851-34-5	0.354	JB	0.0239	5.93	1
11031	1234678-HpCDF	67562-39-4	4.94	JB	0.0292	5.93	1
11031	1234789-HpCDF	55673-89-7	0.557	JB	0.0399	5.93	1
11031	OCDF	39001-02-0	12.1	B	0.0242	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	67	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-070-SA6-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA6-SB-19.0-20.0

LLI Sample # SW 6359590
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 11:30

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2109 SDG#: DX121-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-070-SA6-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA6-SB-19.0-20.0

LLI Sample # SW 6359590
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 11:30

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2109 SDG#: DX121-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11223001	08/16/2011 17:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11223001	08/11/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402B	08/05/2011 19:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-090-SA6-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA6-SB-3.0-4.0

LLI Sample # SW 6359591
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 11:20

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2110 SDG#: DX121-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-090-SA6-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA6-SB-3.0-4.0

LLI Sample # SW 6359591
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 11:20

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2110 SDG#: DX121-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0222 J	0.0112	1.08	1
11031	12378-PeCDD	40321-76-4	0.0172 JBQ	0.00975	5.41	1
11031	123478-HxCDD	39227-28-6	0.0109 JQ	0.00842	5.41	1
11031	123678-HxCDD	57653-85-7	0.0293 JBQ	0.00875	5.41	1
11031	123789-HxCDD	19408-74-3	0.0310 JB	0.00864	5.41	1
11031	1234678-HpCDD	35822-46-9	0.363 JB	0.0122	5.41	1
11031	OCDD	3268-87-9	1.12 JB	0.0106	10.8	1
11031	2378-TCDF	51207-31-9	0.0123 U	0.0123	1.08	1
11031	12378-PeCDF	57117-41-6	0.0243 JBQ	0.00698	5.41	1
11031	23478-PeCDF	57117-31-4	0.0374 JBQ	0.00864	5.41	1
11031	123478-HxCDF	70648-26-9	0.0347 JB	0.00676	5.41	1
11031	123678-HxCDF	57117-44-9	0.0157 JBQ	0.00454	5.41	1
11031	123789-HxCDF	72918-21-9	0.0423 JBQ	0.00853	5.41	1
11031	234678-HxCDF	60851-34-5	0.0215 JB	0.00554	5.41	1
11031	1234678-HpCDF	67562-39-4	0.0582 JBQ	0.00587	5.41	1
11031	1234789-HpCDF	55673-89-7	0.0362 JBQ	0.0188	5.41	1
11031	OCDF	39001-02-0	0.243 JBQ	0.0279	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	98	23 - 140
13C12-OCDD	96	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	45	29 - 147
13C12-1234678-HpCDF	123	28 - 143
13C12-1234789-HpCDF	41	26 - 138
13C12-OCDF	33	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-090-SA6-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA6-SB-3.0-4.0

LLI Sample # SW 6359591
LLI Group # 1258930
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/28/2011 11:20

Submitted: 07/29/2011 09:10
Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2110 SDG#: DX121-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-090-SA6-SB-3.0-4.0 Soil
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Reported: 08/18/2011 19:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2110 SDG#: DX121-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11223001	08/16/2011 18:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11223001	08/11/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162402B	08/05/2011 19:10	Scott W Freisher	1

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258930
Reported: 08/18/11 at 07:21 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11217162402B	Sample number(s): 6359580-6359591								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11223001	Sample number(s): 6359580-6359591								
2378-TCDD	0.0111 U	0.0111	1.00	ng/kg	100		67-158		
12378-PeCDD	0.0239 J	0.0105	5.00	ng/kg	107		70-142		
123478-HxCDD	0.00970 U	0.00970	5.00	ng/kg	110		70-164		
123678-HxCDD	0.0237 J	0.0101	5.00	ng/kg	106		76-134		
123789-HxCDD	0.0270 J	0.00940	5.00	ng/kg	108		64-162		
1234678-HpCDD	0.353 J	0.0140	5.00	ng/kg	103		70-140		
OCDD	0.751 J	0.0154	10.0	ng/kg	104		78-144		
2378-TCDF	0.0122 U	0.0122	1.00	ng/kg	118		75-158		
12378-PeCDF	0.0220 J	0.00710	5.00	ng/kg	110		80-134		
23478-PeCDF	0.0422 J	0.00760	5.00	ng/kg	111		68-160		
123478-HxCDF	0.0198 J	0.00630	5.00	ng/kg	105		72-134		
123678-HxCDF	0.0114 J	0.00490	5.00	ng/kg	111		84-130		
123789-HxCDF	0.0321 J	0.00810	5.00	ng/kg	104		78-130		
234678-HxCDF	0.0231 J	0.00590	5.00	ng/kg	114		70-156		
1234678-HpCDF	0.0526 J	0.00400	5.00	ng/kg	102		82-122		
1234789-HpCDF	0.0314 J	0.00830	5.00	ng/kg	107		78-138		
OCDF	0.168 J	0.0193	10.0	ng/kg	106		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11217162402B	Sample number(s): 6359580-6359591 BKG: P359559								
Moisture Content by 160.3						10.9	10.9	0	20
Batch number: 11223001	Sample number(s): 6359580-6359591 UNSPK: 6359582								
2378-TCDD	102	101	67-158	2	25				
12378-PeCDD	107	109	70-142	0	25				
123478-HxCDD	110	112	70-164	0	25				
123678-HxCDD	110	109	76-134	3	25				
123789-HxCDD	107	109	64-162	0	25				
1234678-HpCDD	104	108	70-140	2	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258930
Reported: 08/18/11 at 07:21 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
OCDD	108	111	78-144	1	25				
2378-TCDF	115	114	75-158	3	25				
12378-PeCDF	112	113	80-134	1	25				
23478-PeCDF	113	110	68-160	4	25				
123478-HxCDF	113	110	72-134	4	25				
123678-HxCDF	111	106	84-130	6	25				
123789-HxCDF	111	107	78-130	5	25				
234678-HxCDF	112	114	70-156	0	25				
1234678-HpCDF	109	113	82-122	2	25				
1234789-HpCDF	109	110	78-138	1	25				
OCDF	109	113	63-170	3	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11223001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6359580	75	68	80	92	80	74
6359581	76	79	75	90	76	61
6359582	67	67	66	85	70	61
6359583	68	67	73	92	76	63
6359584	68	68	72	95	78	72
6359585	72	68	48	65	69	53
6359586	66	67	66	87	74	57
6359587	93	92	76	88	85	85
6359588	80	77	61	71	71	75
6359589	72	69	52	69	65	60
6359590	80	78	76	82	81	72
6359591	75	74	57	81	66	45
Blank	79	74	78	97	79	65
MS	68	67	73	92	76	63
MSD	68	68	72	95	78	72
OPR	73	69	72	85	71	69
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6359580	113	58	68	69	79	76
6359581	120	64	81	86	78	81
6359582	123	48	49	70	74	74
6359583	108	57	62	71	79	75
6359584	121	55	51	69	79	77
6359585	88	49	45	74	71	70
6359586	107	49	50	73	79	78
6359587	106	80	83	100	95	95

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1258930
Reported: 08/18/11 at 07:21 PM

Surrogate Quality Control

6359588	96	65	65	86	83	81
6359589	101	52	49	82	80	80
6359590	88	70	67	78	86	84
6359591	123	41	33	94	90	89
Blank	108	59	56	85	87	85
MS	108	57	62	71	79	75
MSD	121	55	51	69	79	77
OPR	129	51	47	78	82	83
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6359580	78	77	99	72	88
6359581	80	84	113	71	98
6359582	74	74	85	61	89
6359583	78	79	88	62	87
6359584	80	77	83	66	87
6359585	75	76	76	62	90
6359586	78	73	82	62	81
6359587	97	99	107	88	100
6359588	84	88	92	74	94
6359589	82	84	90	63	89
6359590	84	81	83	80	88
6359591	90	98	96	62	99
Blank	87	80	85	68	85
MS	78	79	88	62	87
MSD	80	77	83	66	87
OPR	84	83	80	63	86
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap#1253930 sample#6359530-91

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	Other Instructions and Notes
SL-172-SA5DN-SB-4.0-5.0	7/28/11	1204	SOIL	NONE	2- 16 oz Jars	X	X	X	X	X	X	X	X		
SL-172-SA5DN-SB-9.0-10.0	7/28/11	1209	SOIL	NONE	2- 16 oz Jars	X	X	X	X	X	X	X	X		
SL-183-SA5DN-SB-4.0-5.0MS	7/28/11	1011	SOIL	NONE	4- 16 oz Jars	X	X	X	X	X	X	X	X		MS/MSD-only 4 collected
SL-183-SA5DN-SB-9.0-10.0	7/28/11	1030	SOIL	NONE	2- 16 oz Jars	X	X	X	X	X	X	X	X		
DUP21-SA5DN-QC-072811	7/28/11	1019	SOIL	NONE	2- 16 oz Jars	X	X	X	X	X	X	X	X	X	

Relinquished by: (*Signature*) — Date/Time: 07/28/2011 / 1600

Received for Laboratory by: (*Signature*) LLT 7/29/11 910

Received by: (*Signature*) — Date/Time

Airbill No.(s): 8754 3340 0266,0277

Laboratory: Lancaster Laboratories, Inc.

acct# 13013 Cp# 1253930 Sample# 6359550-91

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-068-SA6-SB-4.5	7/28/11	0735	SOIL	NONE	2-Encores										X										
SL-068-SA6-SB-4.0-5.0	7/28/11	0740	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X		X						X	X	X	
SL-068-SA6-SB-19.5	7/28/11	0745	SOIL	NONE	2-Encores										X										
SL-068-SA6-SB-19.0-20.0	7/28/11	0750	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-070-SA6-SB-4.5	7/28/11	1015	SOIL	NONE	2-Encores										X										
SL-070-SA6-SB-4.0-5.0	7/28/11	1020	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-070-SA6-SB-19.5	7/28/11	1025	SOIL	NONE	2-Encores										X										
SL-070-SA6-SB-19.0-20.0	7/28/11	1130	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-090-SA6-SB-3.5	7/28/11	1115	SOIL	NONE	2-Encores										X										
SL-090-SA6-SB-3.0-4.0	7/28/11	1120	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
TB-072811	7/28/11	0800	WATER	NONE	2-40mL Vials										X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	07/28/2011 / 1600	LG 7/29/11 910	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3340 0266,0277	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 30, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/30/2011
Group Number: 1259104
SDG: DE212
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-180-SA5DN-SB-4.0-5.0 Soil	6360499
SL-180-SA5DN-SB-9.0-10.0 Soil	6360500
SL-174-SA5DN-SB-4.0-5.0 Soil	6360501
SL-174-SA5DN-SB-9.0-10.0 Soil	6360502
SL-122-SA6-SB-0.0-0.5 Soil	6360503
SL-123-SA6-SB-4.0-5.0 Soil	6360504
SL-123-SA6-SB-7.0-8.0 Soil	6360505
SL-125-SA6-SB-4.0-5.0 Soil	6360506
SL-125-SA6-SB-4.0-5.0MS Soil	6360507
SL-125-SA6-SB-4.0-5.0MSD Soil	6360508
SL-125-SA6-SB-4.0-5.0DUP Soil	6360509
SL-125-SA6-SB-20.0-21.0 Soil	6360510
SL-126-SA6-SB-4.0-5.0 Soil	6360511
SL-126-SA6-SB-9.0-10.0 Soil	6360512
DUP10-SA6-QC-072911 Soil	6360513
TB-072911 Water	6360514

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Lawrence M. Taylor
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-180-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5DN-SB-4.0-5.0

LLI Sample # SW 6360499
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:10

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1201 SDG#: DE212-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	59	J	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-180-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5DN-SB-4.0-5.0

LLI Sample # SW 6360499
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:10

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1201 SDG#: DE212-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	1.3	J	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	2.8		0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	2.2		0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	2.7		0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	2.0		0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	2.1		0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	10	J	6.8	21	1
10138	Di-n-butylphthalate	84-74-2	15	J	6.8	21	1
10138	Chrysene	218-01-9	2.8		0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	1.2	J	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21	1
10138	Fluoranthene	206-44-0	3.4		0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.6	J	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21	1
10138	Phenanthrene	85-01-8	2.0		0.76	1.9	1
10138	Pyrene	129-00-0	3.4		0.76	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,900		6.63	21.9	1
07914	Boron	7440-42-8	8.15		0.395	5.48	1
01650	Calcium	7440-70-2	122,000		13.7	110	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-180-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5DN-SB-4.0-5.0

LLI Sample # SW 6360499
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:10

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1201 SDG#: DE212-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	22,500	2.86	21.9	1
01656	Lithium	7439-93-2	23.5	0.68	2.2	1
01657	Magnesium	7439-95-4	6,240	0.482	11.0	1
06958	Manganese	7439-96-5	294	0.0395	0.548	1
10145	Phosphorus	7723-14-0	358	0.384	11.0	1
01662	Potassium	7440-09-7	2,870	12.4	54.8	1
01667	Sodium	7440-23-5	145	6.52	110	1
07968	Strontium	7440-24-6	147	0.0274	0.548	1
06969	Tin	7440-31-5	3.05 J	0.351	11.0	1
06970	Titanium	7440-32-6	1,070	0.0778	1.10	1
10146	Zirconium	7440-67-7	6.75	0.504	5.48	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0855 J	0.0827	0.224	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	4.84	0.0894	0.447	2
06126	Barium	7440-39-3	98.8	0.118	0.447	2
06127	Beryllium	7440-41-7	0.560	0.0179	0.112	2
06128	Cadmium	7440-43-9	0.280	0.0492	0.112	2
06131	Chromium	7440-47-3	24.4	0.134	0.447	2
06132	Cobalt	7440-48-4	6.95	0.0224	0.112	2
06133	Copper	7440-50-8	11.3	0.0894	0.447	2
06135	Lead	7439-92-1	6.42	0.0114	0.224	2
06138	Molybdenum	7439-98-7	0.305	0.0559	0.112	2
06139	Nickel	7440-02-0	15.9	0.112	0.447	2
06141	Selenium	7782-49-2	0.115 J	0.0648	0.447	2
06142	Silver	7440-22-4	0.0477 J	0.0159	0.112	2
06145	Thallium	7440-28-0	0.248	0.0335	0.112	2
06148	Vanadium	7440-62-2	47.2	0.0246	0.112	2
06149	Zinc	7440-66-6	46.5	0.626	3.35	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076 U	0.0076	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.0	0.92	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.2	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.28 J	0.23	1.2	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-180-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5DN-SB-4.0-5.0

LLI Sample # SW 6360499
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:10

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1201 SDG#: DE212-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.42	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11221SLE026	08/19/2011 12:49	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11222SLD026	08/19/2011 16:52	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11222SLD026	08/11/2011 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11221SLE026	08/10/2011 06:30	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112220019A	08/12/2011 13:59	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112220019A	08/10/2011 19:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	112145708007	08/04/2011 02:35	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112145708007	08/04/2011 02:35	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112145708007	08/04/2011 10:23	Joanne M Gates	5
01654	Iron	SW-846 6010B	1	112145708007	08/04/2011 02:35	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112145708007	08/04/2011 02:35	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112145708007	08/04/2011 02:35	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112145708007	08/04/2011 02:35	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112145708007	08/04/2011 02:35	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112145708007	08/04/2011 02:35	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112145708007	08/04/2011 10:26	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112145708007	08/04/2011 02:35	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112145708007	08/04/2011 02:35	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112145708007	08/04/2011 02:35	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112145708007	08/04/2011 02:35	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112141026003A	08/04/2011 00:02	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026003A	08/04/2011 00:02	David K Beck	2
06126	Barium	SW-846 6020	1	112141026003D	08/04/2011 00:02	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026003A	08/04/2011 00:02	David K Beck	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-180-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5DN-SB-4.0-5.0

LLI Sample # SW 6360499
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:10

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1201 SDG#: DE212-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112141026003A	08/04/2011 00:02	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026003A	08/04/2011 00:02	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026003A	08/04/2011 00:02	David K Beck	2
06133	Copper	SW-846 6020	1	112141026003A	08/04/2011 00:02	David K Beck	2
06135	Lead	SW-846 6020	1	112141026003A	08/04/2011 00:02	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026003C	08/04/2011 00:02	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026003A	08/04/2011 00:02	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026003B	08/04/2011 00:02	David K Beck	2
06142	Silver	SW-846 6020	1	112141026003A	08/04/2011 00:02	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026003A	08/04/2011 00:02	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026003A	08/04/2011 00:02	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026003A	08/04/2011 00:02	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711004	08/03/2011 19:40	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708007	08/03/2011 11:00	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026003	08/03/2011 11:17	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711004	08/03/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11217621202A	08/05/2011 16:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11217284201A	08/09/2011 00:55	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11227243202A	08/16/2011 19:25	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11217621202A	08/05/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11217284201A	08/05/2011 16:00	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11216039402A	08/04/2011 20:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11227243202A	08/15/2011 21:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-180-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5DN-SB-9.0-10.0

LLI Sample # SW 6360500
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:12

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1202 SDG#: DE212-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	600	1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000	1
04688	Benzoic acid	65-85-0	200	U	200	600	1
04688	Benzyl alcohol	100-51-6	200	U	200	600	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Butylbenzylphthalate	85-68-7	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200	1
04688	4-Chloroaniline	106-47-8	80	U	80	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	Diethylphthalate	84-66-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200	1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200	1
04688	Dimethylphthalate	131-11-3	20	U	20	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600	1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	40	U	40	200	1
04688	4-Methylphenol	106-44-5	40	U	40	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	40	U	40	200	1
04688	4-Nitroaniline	100-01-6	80	U	80	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	600	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-180-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5DN-SB-9.0-10.0

LLI Sample # SW 6360500
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:12

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1202 SDG#: DE212-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	20	U	20	200	1
04688	Pentachlorophenol	87-86-5	200	U	200	600	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200	1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.0	U	4.0	10	5
10138	Acenaphthylene	208-96-8	2.0	U	2.0	10	5
10138	Anthracene	120-12-7	2.0	U	2.0	10	5
10138	Benzo(a)anthracene	56-55-3	4.0	U	4.0	10	5
10138	Benzo(a)pyrene	50-32-8	4.0	U	4.0	10	5
10138	Benzo(b)fluoranthene	205-99-2	4.0	U	4.0	10	5
10138	Benzo(g,h,i)perylene	191-24-2	4.0	U	4.0	10	5
10138	Benzo(k)fluoranthene	207-08-9	4.0	U	4.0	10	5
10138	Di-n-butylphthalate	84-74-2	56	J	36	110	5
10138	Chrysene	218-01-9	2.0	U	2.0	10	5
10138	Dibenz(a,h)anthracene	53-70-3	4.0	U	4.0	10	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	39	J	36	110	5
10138	Fluoranthene	206-44-0	4.0	U	4.0	10	5
10138	Fluorene	86-73-7	4.0	U	4.0	10	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.0	U	4.0	10	5
10138	1-Methylnaphthalene	90-12-0	4.0	U	4.0	10	5
10138	2-Methylnaphthalene	91-57-6	4.0	U	4.0	10	5
10138	Naphthalene	91-20-3	4.0	U	4.0	10	5
10138	N-Nitrosodimethylamine	62-75-9	4.0	U	4.0	10	5
10138	Phenanthrene	85-01-8	4.0	U	4.0	10	5
10138	Pyrene	129-00-0	4.0	U	4.0	10	5
	Reporting limits were raised due to interference from the sample matrix.						
	Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0	1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.0	1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.0	1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.0	1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.0	1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.0	1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-180-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5DN-SB-9.0-10.0

LLI Sample # SW 6360500
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:12

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1202 SDG#: DE212-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	0.47	U	0.47	2.0	1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.0	1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,500		6.97	23.0	1
07914	Boron	7440-42-8	9.83		0.415	5.76	1
01650	Calcium	7440-70-2	66,100		14.4	115	5
01654	Iron	7439-89-6	26,300		3.01	23.0	1
01656	Lithium	7439-93-2	26.9		0.71	2.3	1
01657	Magnesium	7439-95-4	6,780		0.507	11.5	1
06958	Manganese	7439-96-5	335		0.0415	0.576	1
10145	Phosphorus	7723-14-0	408		0.403	11.5	1
01662	Potassium	7440-09-7	3,270		13.0	57.6	1
01667	Sodium	7440-23-5	136		6.85	115	1
07968	Strontium	7440-24-6	104		0.0288	0.576	1
06969	Tin	7440-31-5	3.23	J	0.368	11.5	1
06970	Titanium	7440-32-6	1,350		0.0818	1.15	1
10146	Zirconium	7440-67-7	6.66		0.530	5.76	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0886	U	0.0886	0.240	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.94		0.0958	0.479	2
06126	Barium	7440-39-3	110		0.127	0.479	2
06127	Beryllium	7440-41-7	0.628		0.0192	0.120	2
06128	Cadmium	7440-43-9	0.394		0.0527	0.120	2
06131	Chromium	7440-47-3	26.9		0.144	0.479	2
06132	Cobalt	7440-48-4	7.41		0.0240	0.120	2
06133	Copper	7440-50-8	12.5		0.0958	0.479	2
06135	Lead	7439-92-1	7.21		0.0122	0.240	2
06138	Molybdenum	7439-98-7	0.291		0.0599	0.120	2
06139	Nickel	7440-02-0	17.4		0.120	0.479	2
06141	Selenium	7782-49-2	0.0863	J	0.0695	0.479	2
06142	Silver	7440-22-4	0.0467	J	0.0170	0.120	2
06145	Thallium	7440-28-0	0.269		0.0359	0.120	2
06148	Vanadium	7440-62-2	51.1		0.0263	0.120	2
06149	Zinc	7440-66-6	52.0		0.671	3.59	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0096	J	0.0081	0.116	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.7		0.98	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-180-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5DN-SB-9.0-10.0

LLI Sample # SW 6360500
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:12

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1202 SDG#: DE212-02

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.8	U	10.8	35.9	1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.27	J	0.24	1.2	1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C		n.a.	8.37		0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3		n.a.	16.5		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11221SLE026	08/19/2011 13:14	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11222SLD026	08/19/2011 17:25	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11222SLD026	08/11/2011 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11221SLE026	08/10/2011 06:30	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112220019A	08/12/2011 14:18	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112220019A	08/10/2011 19:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	112145708007	08/04/2011 02:46	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112145708007	08/04/2011 02:46	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112145708007	08/04/2011 10:42	Joanne M Gates	5
01654	Iron	SW-846 6010B	1	112145708007	08/04/2011 02:46	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112145708007	08/04/2011 02:46	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112145708007	08/04/2011 02:46	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112145708007	08/04/2011 02:46	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112145708007	08/04/2011 02:46	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112145708007	08/04/2011 02:46	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112145708007	08/04/2011 10:38	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112145708007	08/04/2011 02:46	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112145708007	08/04/2011 02:46	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-180-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5DN-SB-9.0-10.0

LLI Sample # SW 6360500
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:12

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1202 SDG#: DE212-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112145708007	08/04/2011 02:46	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112145708007	08/04/2011 02:46	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112141026003A	08/04/2011 00:05	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026003A	08/04/2011 00:05	David K Beck	2
06126	Barium	SW-846 6020	1	112141026003D	08/04/2011 00:05	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026003A	08/04/2011 00:05	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026003A	08/04/2011 00:05	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026003A	08/04/2011 00:05	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026003A	08/04/2011 00:05	David K Beck	2
06133	Copper	SW-846 6020	1	112141026003A	08/04/2011 00:05	David K Beck	2
06135	Lead	SW-846 6020	1	112141026003A	08/04/2011 00:05	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026003C	08/04/2011 00:05	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026003A	08/04/2011 00:05	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026003B	08/04/2011 00:05	David K Beck	2
06142	Silver	SW-846 6020	1	112141026003A	08/04/2011 00:05	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026003A	08/04/2011 00:05	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026003A	08/04/2011 00:05	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026003A	08/04/2011 00:05	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711004	08/03/2011 19:41	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708007	08/03/2011 11:00	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026003	08/03/2011 11:17	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711004	08/03/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11217621202A	08/05/2011 17:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11217284201A	08/09/2011 01:41	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11227243202A	08/16/2011 19:45	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11217621202A	08/05/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11217284201A	08/05/2011 16:00	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11216039402A	08/04/2011 20:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11227243202A	08/15/2011 21:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-174-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5DN-SB-4.0-5.0

LLI Sample # SW 6360501
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:49

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1203 SDG#: DE212-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	78	U	78	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	Diethylphthalate	84-66-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1
04688	Dimethylphthalate	131-11-3	19	U	19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	78	U	78	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-174-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5DN-SB-4.0-5.0

LLI Sample # SW 6360501
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:49

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1203 SDG#: DE212-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	19	U	19	190	1
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.9	U	3.9	9.7	5
10138	Acenaphthylene	208-96-8	7.0	J	1.9	9.7	5
10138	Anthracene	120-12-7	30		1.9	9.7	5
10138	Benzo(a)anthracene	56-55-3	41		3.9	9.7	5
10138	Benzo(a)pyrene	50-32-8	35		3.9	9.7	5
10138	Benzo(b)fluoranthene	205-99-2	20		3.9	9.7	5
10138	Benzo(g,h,i)perylene	191-24-2	20		3.9	9.7	5
10138	Benzo(k)fluoranthene	207-08-9	3.9	U	3.9	9.7	5
10138	Chrysene	218-01-9	64		1.9	9.7	5
10138	Dibenz(a,h)anthracene	53-70-3	6.4	J	3.9	9.7	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	56	J	35	100	5
10138	Fluoranthene	206-44-0	24		3.9	9.7	5
10138	Fluorene	86-73-7	30		3.9	9.7	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	5.7	J	3.9	9.7	5
10138	1-Methylnaphthalene	90-12-0	48		3.9	9.7	5
10138	2-Methylnaphthalene	91-57-6	61		3.9	9.7	5
10138	Naphthalene	91-20-3	3.9	U	3.9	9.7	5
10138	N-Nitrosodimethylamine	62-75-9	3.9	U	3.9	9.7	5
10138	Phenanthrene	85-01-8	110		3.9	9.7	5
10138	Pyrene	129-00-0	160		3.9	9.7	5
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,900		6.85	22.6	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-174-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5DN-SB-4.0-5.0

LLI Sample # SW 6360501
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:49

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1203 SDG#: DE212-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	7.26		0.407	5.66	1
01650	Calcium	7440-70-2	24,300		2.83	22.6	1
01654	Iron	7439-89-6	29,400		14.8	113	5
01656	Lithium	7439-93-2	29.5		0.70	2.3	1
01657	Magnesium	7439-95-4	6,520		0.498	11.3	1
06958	Manganese	7439-96-5	398		0.0407	0.566	1
10145	Phosphorus	7723-14-0	293		0.396	11.3	1
01662	Potassium	7440-09-7	3,570		12.8	56.6	1
01667	Sodium	7440-23-5	139		6.73	113	1
07968	Strontium	7440-24-6	44.6		0.0283	0.566	1
06969	Tin	7440-31-5	3.41	J	0.362	11.3	1
06970	Titanium	7440-32-6	1,410		0.0803	1.13	1
10146	Zirconium	7440-67-7	7.29		0.521	5.66	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0837	U	0.0837	0.226	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.31		0.0905	0.453	2
06126	Barium	7440-39-3	123		0.120	0.453	2
06127	Beryllium	7440-41-7	0.749		0.0181	0.113	2
06128	Cadmium	7440-43-9	0.275		0.0498	0.113	2
06131	Chromium	7440-47-3	28.0		0.136	0.453	2
06132	Cobalt	7440-48-4	9.17		0.0226	0.113	2
06133	Copper	7440-50-8	13.6		0.0905	0.453	2
06135	Lead	7439-92-1	8.44		0.0115	0.226	2
06138	Molybdenum	7439-98-7	0.343		0.0566	0.113	2
06139	Nickel	7440-02-0	20.1		0.113	0.453	2
06141	Selenium	7782-49-2	0.0869	J	0.0656	0.453	2
06142	Silver	7440-22-4	0.0429	J	0.0161	0.113	2
06145	Thallium	7440-28-0	0.307		0.0339	0.113	2
06148	Vanadium	7440-62-2	53.4		0.0249	0.113	2
06149	Zinc	7440-66-6	59.1		0.634	3.39	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0095	J	0.0081	0.116	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.9		0.94	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	J	0.23	1.2	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-174-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5DN-SB-4.0-5.0

LLI Sample # SW 6360501
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:49

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1203 SDG#: DE212-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.40	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11221SLE026	08/19/2011 13:40	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11222SLD026	08/19/2011 17:58	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11222SLD026	08/11/2011 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11221SLE026	08/10/2011 06:30	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112220019A	08/12/2011 14:36	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112220019A	08/10/2011 19:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	112145708007	08/04/2011 02:50	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112145708007	08/04/2011 02:50	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112145708007	08/04/2011 10:45	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112145708007	08/04/2011 10:49	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	112145708007	08/04/2011 02:50	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112145708007	08/04/2011 02:50	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112145708007	08/04/2011 02:50	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112145708007	08/04/2011 02:50	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112145708007	08/04/2011 02:50	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112145708007	08/04/2011 10:45	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112145708007	08/04/2011 02:50	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112145708007	08/04/2011 02:50	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112145708007	08/04/2011 02:50	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112145708007	08/04/2011 02:50	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112141026003A	08/04/2011 00:14	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026003A	08/04/2011 00:14	David K Beck	2
06126	Barium	SW-846 6020	1	112141026003D	08/04/2011 00:14	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026003A	08/04/2011 00:14	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-174-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5DN-SB-4.0-5.0

LLI Sample # SW 6360501
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:49

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1203 SDG#: DE212-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112141026003A	08/04/2011 00:14	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026003A	08/04/2011 00:14	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026003A	08/04/2011 00:14	David K Beck	2
06133	Copper	SW-846 6020	1	112141026003A	08/04/2011 00:14	David K Beck	2
06135	Lead	SW-846 6020	1	112141026003A	08/04/2011 00:14	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026003C	08/04/2011 00:14	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026003A	08/04/2011 00:14	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026003B	08/04/2011 00:14	David K Beck	2
06142	Silver	SW-846 6020	1	112141026003A	08/04/2011 00:14	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026003A	08/04/2011 00:14	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026003A	08/04/2011 00:14	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026003A	08/04/2011 00:14	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711004	08/03/2011 19:44	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708007	08/03/2011 11:00	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026003	08/03/2011 11:17	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711004	08/03/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11217621202A	08/05/2011 17:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11217284201A	08/09/2011 02:04	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11227243202A	08/16/2011 19:52	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11217621202A	08/05/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11217284201A	08/05/2011 16:00	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11216039402A	08/04/2011 20:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11227243202A	08/15/2011 21:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-174-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5DN-SB-9.0-10.0

LLI Sample # SW 6360502
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:51

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1204 SDG#: DE212-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-174-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5DN-SB-9.0-10.0

LLI Sample # SW 6360502
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:51

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1204 SDG#: DE212-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.39	J	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	7.9	J	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	13	J	6.9	21	1
10138	Chrysene	218-01-9	0.42	J	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.9	21	1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	0.85	J	0.77	1.9	1
10138	Pyrene	129-00-0	0.91	J	0.77	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.82	J	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,000		6.69	22.1	1
07914	Boron	7440-42-8	4.55	J	0.398	5.53	1
01650	Calcium	7440-70-2	7,310		2.77	22.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-174-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5DN-SB-9.0-10.0

LLI Sample # SW 6360502
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:51

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1204 SDG#: DE212-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	29,800		2.89	22.1	1
01656	Lithium	7439-93-2	24.4		0.69	2.2	1
01657	Magnesium	7439-95-4	5,780		0.487	11.1	1
06958	Manganese	7439-96-5	553		0.0398	0.553	1
10145	Phosphorus	7723-14-0	209		0.387	11.1	1
01662	Potassium	7440-09-7	2,550		12.5	55.3	1
01667	Sodium	7440-23-5	163		6.58	111	1
07968	Strontium	7440-24-6	33.3		0.0277	0.553	1
06969	Tin	7440-31-5	3.43	J	0.354	11.1	1
06970	Titanium	7440-32-6	1,290		0.0786	1.11	1
10146	Zirconium	7440-67-7	6.72		0.509	5.53	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.100	J	0.0827	0.223	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.67		0.0894	0.447	2
06126	Barium	7440-39-3	119		0.118	0.447	2
06127	Beryllium	7440-41-7	0.833		0.0179	0.112	2
06128	Cadmium	7440-43-9	0.0902	J	0.0492	0.112	2
06131	Chromium	7440-47-3	26.7		0.134	0.447	2
06132	Cobalt	7440-48-4	7.98		0.0223	0.112	2
06133	Copper	7440-50-8	15.6		0.0894	0.447	2
06135	Lead	7439-92-1	8.06		0.0114	0.223	2
06138	Molybdenum	7439-98-7	0.401		0.0559	0.112	2
06139	Nickel	7440-02-0	18.9		0.112	0.447	2
06141	Selenium	7782-49-2	0.0648	U	0.0648	0.447	2
06142	Silver	7440-22-4	0.0683	J	0.0159	0.112	2
06145	Thallium	7440-28-0	0.307		0.0335	0.112	2
06148	Vanadium	7440-62-2	51.4		0.0246	0.112	2
06149	Zinc	7440-66-6	54.0		0.626	3.35	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0175	J	0.0077	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.5		0.93	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.66	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-174-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5DN-SB-9.0-10.0

LLI Sample # SW 6360502
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:51

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1204 SDG#: DE212-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.24	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11221SLE026	08/19/2011 14:05	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11222SLD026	08/19/2011 18:31	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11222SLD026	08/11/2011 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11221SLE026	08/10/2011 06:30	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112220019A	08/12/2011 14:55	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112220019A	08/10/2011 19:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	112145708007	08/04/2011 02:54	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112145708007	08/04/2011 02:54	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112145708007	08/04/2011 10:53	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112145708007	08/04/2011 02:54	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112145708007	08/04/2011 02:54	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112145708007	08/04/2011 02:54	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112145708007	08/04/2011 02:54	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112145708007	08/04/2011 02:54	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112145708007	08/04/2011 02:54	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112145708007	08/04/2011 10:53	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112145708007	08/04/2011 02:54	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112145708007	08/04/2011 02:54	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112145708007	08/04/2011 02:54	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112145708007	08/04/2011 02:54	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112141026003A	08/04/2011 00:17	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026003A	08/04/2011 00:17	David K Beck	2
06126	Barium	SW-846 6020	1	112141026003D	08/04/2011 00:17	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026003A	08/04/2011 00:17	David K Beck	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-174-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5DN-SB-9.0-10.0

LLI Sample # SW 6360502
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:51

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1204 SDG#: DE212-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112141026003A	08/04/2011 00:17	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026003A	08/04/2011 00:17	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026003A	08/04/2011 00:17	David K Beck	2
06133	Copper	SW-846 6020	1	112141026003A	08/04/2011 00:17	David K Beck	2
06135	Lead	SW-846 6020	1	112141026003A	08/04/2011 00:17	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026003C	08/04/2011 00:17	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026003A	08/04/2011 00:17	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026003B	08/04/2011 00:17	David K Beck	2
06142	Silver	SW-846 6020	1	112141026003A	08/04/2011 00:17	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026003A	08/04/2011 00:17	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026003A	08/04/2011 00:17	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026003A	08/04/2011 00:17	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711004	08/03/2011 19:46	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708007	08/03/2011 11:00	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026003	08/03/2011 11:17	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711004	08/03/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11217621202A	08/05/2011 17:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11217284201A	08/09/2011 02:27	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11227243202A	08/16/2011 20:12	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11217621202A	08/05/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11217284201A	08/05/2011 16:00	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11216039402A	08/04/2011 20:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11227243202A	08/15/2011 21:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-122-SA6-SB-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA6-SB-0.0-0.5

LLI Sample # SW 6360503
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:30

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1205 SDG#: DE212-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	500	1
04688	Benzyl alcohol	100-51-6	170	U	170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	650		17	340	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	500	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-122-SA6-SB-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA6-SB-0.0-0.5

LLI Sample # SW 6360503
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:30

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1205 SDG#: DE212-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	17	U	17	170	1
04688	Pentachlorophenol	87-86-5	170	U	170	500	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4	5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4	5
10138	Anthracene	120-12-7	1.7	U	1.7	8.4	5
10138	Benzo(a)anthracene	56-55-3	3.4	U	3.4	8.4	5
10138	Benzo(a)pyrene	50-32-8	3.4	U	3.4	8.4	5
10138	Benzo(b)fluoranthene	205-99-2	3.7	J	3.4	8.4	5
10138	Benzo(g,h,i)perylene	191-24-2	5.4	J	3.4	8.4	5
10138	Benzo(k)fluoranthene	207-08-9	3.4	U	3.4	8.4	5
10138	Butylbenzylphthalate	85-68-7	36	J	30	91	5
10138	Di-n-butylphthalate	84-74-2	59	J	30	91	5
10138	Chrysene	218-01-9	4.2	J	1.7	8.4	5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4	5
10138	Fluoranthene	206-44-0	4.4	J	3.4	8.4	5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.4	5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4	5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4	5
10138	Naphthalene	91-20-3	26		3.4	8.4	5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4	5
10138	Phenanthrene	85-01-8	3.4	U	3.4	8.4	5
10138	Pyrene	129-00-0	4.3	J	3.4	8.4	5
	Reporting limits were raised due to interference from the sample matrix.						
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0	25.56
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	100	U	100	330	100
10225	Aroclor 5442	12642-23-8	100	U	100	330	100
10225	Aroclor 5460	11126-42-4	670		100	330	100
10225	PCB-1016	12674-11-2	33	U	33	170	100
10225	PCB-1221	11104-28-2	33	U	33	170	100

*=This limit was used in the evaluation of the final result

Sample Description: SL-122-SA6-SB-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA6-SB-0.0-0.5

LLI Sample # SW 6360503
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:30

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1205 SDG#: DE212-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	33	U	33	170	100
10225	PCB-1242	53469-21-9	33	U	33	170	100
10225	PCB-1248	12672-29-6	33	U	33	170	100
10225	PCB-1254	11097-69-1	1,300		33	170	100
10225	PCB-1260	11096-82-5	39	U	39	170	100
10225	PCB-1262	37324-23-5	33	U	33	170	100
10225	PCB-1268	11100-14-4	33	U	33	170	100
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500	1
10501	Isopropanol	67-63-0	100	U	100	500	1
10501	Methanol	67-56-1	100	U	100	500	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10	1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10	1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	8.1	U	8.1	24	20
10199	EFH (C15-C20)	n.a.	8.1	U	8.1	24	20
10199	EFH (C21-C30)	n.a.	91		8.1	24	20
10199	EFH (C30 - C40)	n.a.	260		8.1	24	20
10199	EFH (C8-C11)	n.a.	8.1	U	8.1	24	20
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,300		5.97	19.7	1
07914	Boron	7440-42-8	0.355	U	0.355	4.93	1
01650	Calcium	7440-70-2	12,700		2.47	19.7	1
01654	Iron	7439-89-6	46,000		12.9	98.7	5
01656	Lithium	7439-93-2	25.2		0.61	2.0	1
01657	Magnesium	7439-95-4	6,240		0.434	9.87	1
06958	Manganese	7439-96-5	293		0.0355	0.493	1
10145	Phosphorus	7723-14-0	499		0.345	9.87	1
01662	Potassium	7440-09-7	2,580		11.2	49.3	1
01667	Sodium	7440-23-5	140		5.87	98.7	1
07968	Strontium	7440-24-6	32.1		0.0247	0.493	1
06969	Tin	7440-31-5	3.22	J	0.316	9.87	1
06970	Titanium	7440-32-6	1,040		0.0701	0.987	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-122-SA6-SB-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA6-SB-0.0-0.5

LLI Sample # SW 6360503
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:30

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1205 SDG#: DE212-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	6.52		0.454	4.93	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.161	J	0.0737	0.199	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	14.0		0.0797	0.399	2
06126	Barium	7440-39-3	81.0		0.106	0.399	2
06127	Beryllium	7440-41-7	0.363		0.0159	0.0997	2
06128	Cadmium	7440-43-9	0.103		0.0438	0.0997	2
06131	Chromium	7440-47-3	18.0		0.120	0.399	2
06132	Cobalt	7440-48-4	12.6		0.0199	0.0997	2
06133	Copper	7440-50-8	14.8		0.0797	0.399	2
06135	Lead	7439-92-1	6.79		0.0102	0.199	2
06138	Molybdenum	7439-98-7	0.646		0.0498	0.0997	2
06139	Nickel	7440-02-0	14.0		0.0997	0.399	2
06141	Selenium	7782-49-2	0.0903	J	0.0578	0.399	2
06142	Silver	7440-22-4	0.0322	J	0.0142	0.0997	2
06145	Thallium	7440-28-0	0.220		0.0299	0.0997	2
06148	Vanadium	7440-62-2	49.2		0.0219	0.0997	2
06149	Zinc	7440-66-6	52.7		0.558	2.99	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0136	J	0.0069	0.0986	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.28	J	0.20	0.99	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.84		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.65		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-122-SA6-SB-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA6-SB-0.0-0.5

LLI Sample # SW 6360503
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:30

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1205 SDG#: DE212-05

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-122-SA6-SB-0.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11221SLE026	08/19/2011 14:30	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11222SLD026	08/19/2011 19:03	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11222SLD026	08/11/2011 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11221SLE026	08/10/2011 06:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11215A34A	08/04/2011 00:04	Linda C Pape	25.56
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201121125079	07/30/2011 14:39	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201121125079	07/30/2011 14:39	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112220019A	08/13/2011 18:31	Sarah M Snyder	100
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112220019A	08/10/2011 19:00	Sally L Appleyard	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112130034A	08/02/2011 20:12	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112130002A	08/01/2011 16:34	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112210035A	08/12/2011 16:38	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112210020A	08/11/2011 07:11	Heather E Williams	20
11238	EFH Extraction - Soils	SW-846 3550B	1	112210020A	08/09/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112210035A	08/10/2011 06:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112130034A	08/02/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112130002A	08/01/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112145708007	08/04/2011 02:57	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112145708007	08/04/2011 02:57	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112145708007	08/04/2011 10:56	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112145708007	08/04/2011 11:00	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	112145708007	08/04/2011 02:57	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112145708007	08/04/2011 02:57	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112145708007	08/04/2011 02:57	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112145708007	08/04/2011 02:57	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112145708007	08/04/2011 02:57	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112145708007	08/04/2011 10:56	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112145708007	08/04/2011 02:57	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112145708007	08/04/2011 02:57	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112145708007	08/04/2011 02:57	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112145708007	08/04/2011 02:57	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-122-SA6-SB-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA6-SB-0.0-0.5

LLI Sample # SW 6360503
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:30

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1205 SDG#: DE212-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112141026003A	08/04/2011 00:20	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026003A	08/04/2011 00:20	David K Beck	2
06126	Barium	SW-846 6020	1	112141026003D	08/04/2011 00:20	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026003A	08/04/2011 00:20	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026003A	08/04/2011 00:20	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026003A	08/04/2011 00:20	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026003A	08/04/2011 00:20	David K Beck	2
06133	Copper	SW-846 6020	1	112141026003A	08/04/2011 00:20	David K Beck	2
06135	Lead	SW-846 6020	1	112141026003A	08/04/2011 00:20	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026003C	08/04/2011 00:20	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026003A	08/04/2011 00:20	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026003B	08/04/2011 00:20	David K Beck	2
06142	Silver	SW-846 6020	1	112141026003A	08/04/2011 00:20	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026003A	08/04/2011 00:20	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026003A	08/04/2011 00:20	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026003A	08/04/2011 00:20	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711004	08/03/2011 19:47	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708007	08/03/2011 11:00	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026003	08/03/2011 11:17	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711004	08/03/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11217621202A	08/05/2011 17:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11217284201A	08/09/2011 02:51	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11227243202A	08/16/2011 20:25	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11217621202A	08/05/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11217284201A	08/05/2011 16:00	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11216039402A	08/04/2011 20:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11227243202A	08/15/2011 21:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-123-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA6-SB-4.0-5.0

LLI Sample # SW 6360504
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:40

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1206 SDG#: DE212-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	Diethylphthalate	84-66-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	Dimethylphthalate	131-11-3	18	U	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-123-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA6-SB-4.0-5.0

LLI Sample # SW 6360504
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:40

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1206 SDG#: DE212-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.1	5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.1	5
10138	Anthracene	120-12-7	3.3	J	1.8	9.1	5
10138	Benzo(a)anthracene	56-55-3	27		3.6	9.1	5
10138	Benzo(a)pyrene	50-32-8	26		3.6	9.1	5
10138	Benzo(b)fluoranthene	205-99-2	44		3.6	9.1	5
10138	Benzo(g,h,i)perylene	191-24-2	17		3.6	9.1	5
10138	Benzo(k)fluoranthene	207-08-9	13		3.6	9.1	5
10138	Butylbenzylphthalate	85-68-7	38	J	33	98	5
10138	Di-n-butylphthalate	84-74-2	55	J	33	98	5
10138	Chrysene	218-01-9	27		1.8	9.1	5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	9.1	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	45	J	33	98	5
10138	Fluoranthene	206-44-0	44		3.6	9.1	5
10138	Fluorene	86-73-7	3.6	U	3.6	9.1	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	11		3.6	9.1	5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.1	5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.1	5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.1	5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.1	5
10138	Phenanthrene	85-01-8	12		3.6	9.1	5
10138	Pyrene	129-00-0	37		3.6	9.1	5
	Reporting limits were raised due to interference from the sample matrix.						
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1	22.01
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.5	U	5.5	18	5
10225	Aroclor 5442	12642-23-8	5.5	U	5.5	18	5
10225	Aroclor 5460	11126-42-4	110		5.5	18	5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.3	5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.3	5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.3	5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.3	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-123-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA6-SB-4.0-5.0

LLI Sample # SW 6360504
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:40

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1206 SDG#: DE212-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.3	5
10225	PCB-1254	11097-69-1	140		1.8	9.3	5
10225	PCB-1260	11096-82-5	2.1	U	2.1	9.3	5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.3	5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.3	5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550	1
10501	Isopropanol	67-63-0	110	U	110	550	1
10501	Methanol	67-56-1	110	U	110	550	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11	1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11	1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	8.8	U	8.8	26	20
10199	EFH (C15-C20)	n.a.	8.8	U	8.8	26	20
10199	EFH (C21-C30)	n.a.	67		8.8	26	20
10199	EFH (C30 - C40)	n.a.	250		8.8	26	20
10199	EFH (C8-C11)	n.a.	8.8	U	8.8	26	20
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,800		6.36	21.0	1
07914	Boron	7440-42-8	2.18	J	0.379	5.26	1
01650	Calcium	7440-70-2	4,340		2.63	21.0	1
01654	Iron	7439-89-6	18,000		2.75	21.0	1
01656	Lithium	7439-93-2	8.8		0.65	2.1	1
01657	Magnesium	7439-95-4	4,520		0.463	10.5	1
06958	Manganese	7439-96-5	123		0.0379	0.526	1
10145	Phosphorus	7723-14-0	316		0.368	10.5	1
01662	Potassium	7440-09-7	1,980		11.9	52.6	1
01667	Sodium	7440-23-5	311		6.26	105	1
07968	Strontium	7440-24-6	28.6		0.0263	0.526	1
06969	Tin	7440-31-5	2.52	J	0.337	10.5	1
06970	Titanium	7440-32-6	347		0.0747	1.05	1
10146	Zirconium	7440-67-7	3.49	J	0.484	5.26	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-123-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA6-SB-4.0-5.0

LLI Sample # SW 6360504
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:40

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1206 SDG#: DE212-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0849 J	0.0802	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	3.75	0.0867	0.433	2
06126	Barium	7440-39-3	43.3	0.115	0.433	2
06127	Beryllium	7440-41-7	0.750	0.0173	0.108	2
06128	Cadmium	7440-43-9	0.0839 J	0.0477	0.108	2
06131	Chromium	7440-47-3	11.6	0.130	0.433	2
06132	Cobalt	7440-48-4	4.58	0.0217	0.108	2
06133	Copper	7440-50-8	9.33	0.0867	0.433	2
06135	Lead	7439-92-1	7.31	0.0110	0.217	2
06138	Molybdenum	7439-98-7	0.588	0.0542	0.108	2
06139	Nickel	7440-02-0	8.21	0.108	0.433	2
06141	Selenium	7782-49-2	0.166 J	0.0628	0.433	2
06142	Silver	7440-22-4	0.0304 J	0.0154	0.108	2
06145	Thallium	7440-28-0	0.181	0.0325	0.108	2
06148	Vanadium	7440-62-2	30.2	0.0238	0.108	2
06149	Zinc	7440-66-6	42.7	0.607	3.25	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0700 J	0.0077	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.0	0.89	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.8	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.60	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-123-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA6-SB-4.0-5.0

LLI Sample # SW 6360504
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:40

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1206 SDG#: DE212-06

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-123-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11221SLE026	08/19/2011 14:55	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11222SLD026	08/19/2011 19:36	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11222SLD026	08/11/2011 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11221SLE026	08/10/2011 06:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11215A34A	08/03/2011 15:40	Linda C Pape	22.01
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201121125079	07/30/2011 14:41	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201121125079	07/30/2011 14:41	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112220019A	08/13/2011 18:49	Sarah M Snyder	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112220019A	08/10/2011 19:00	Sally L Appleyard	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112130034A	08/02/2011 20:27	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112130002A	08/01/2011 16:47	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112210035A	08/12/2011 18:07	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112210020A	08/11/2011 07:35	Heather E Williams	20
11238	EFH Extraction - Soils	SW-846 3550B	1	112210020A	08/09/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112210035A	08/10/2011 06:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112130034A	08/02/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112130002A	08/01/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112145708007	08/04/2011 03:01	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112145708007	08/04/2011 03:01	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112145708007	08/04/2011 11:04	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112145708007	08/04/2011 03:01	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112145708007	08/04/2011 03:01	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112145708007	08/04/2011 03:01	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112145708007	08/04/2011 03:01	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112145708007	08/04/2011 03:01	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112145708007	08/04/2011 03:01	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112145708007	08/04/2011 11:04	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112145708007	08/04/2011 03:01	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112145708007	08/04/2011 03:01	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112145708007	08/04/2011 03:01	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112145708007	08/04/2011 03:01	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-123-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA6-SB-4.0-5.0

LLI Sample # SW 6360504
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:40

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1206 SDG#: DE212-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112141026003A	08/04/2011 00:23	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026003A	08/04/2011 00:23	David K Beck	2
06126	Barium	SW-846 6020	1	112141026003D	08/04/2011 00:23	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026003A	08/04/2011 00:23	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026003A	08/04/2011 00:23	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026003A	08/04/2011 00:23	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026003A	08/04/2011 00:23	David K Beck	2
06133	Copper	SW-846 6020	1	112141026003A	08/04/2011 00:23	David K Beck	2
06135	Lead	SW-846 6020	1	112141026003A	08/04/2011 00:23	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026003C	08/04/2011 00:23	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026003A	08/04/2011 00:23	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026003B	08/04/2011 00:23	David K Beck	2
06142	Silver	SW-846 6020	1	112141026003A	08/04/2011 00:23	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026003A	08/04/2011 00:23	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026003A	08/04/2011 00:23	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026003A	08/04/2011 00:23	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711004	08/03/2011 19:48	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708007	08/03/2011 11:00	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026003	08/03/2011 11:17	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711004	08/03/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11217621202A	08/05/2011 18:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11217284201A	08/09/2011 03:14	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11227243202A	08/16/2011 20:32	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11217621202A	08/05/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11217284201A	08/05/2011 16:00	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11216039402A	08/04/2011 20:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11227243202A	08/15/2011 21:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

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Analysis Report

Sample Description: SL-123-SA6-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA6-SB-7.0-8.0

LLI Sample # SW 6360505
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:50

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1207 SDG#: DE212-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzo(g,h,i)perylene	191-24-2	28	J	18	180	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	Diethylphthalate	84-66-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	Dimethylphthalate	131-11-3	18	U	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	130	J	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	19	J	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-123-SA6-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA6-SB-7.0-8.0

LLI Sample # SW 6360505
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:50

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1207 SDG#: DE212-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: indeno(1,2,3-cd)pyrene						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.1	J	3.6	9.1	5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.1	5
10138	Anthracene	120-12-7	13		1.8	9.1	5
10138	Benzo(a)anthracene	56-55-3	46		3.6	9.1	5
10138	Benzo(a)pyrene	50-32-8	38		3.6	9.1	5
10138	Benzo(b)fluoranthene	205-99-2	63		3.6	9.1	5
10138	Benzo(k)fluoranthene	207-08-9	27		3.6	9.1	5
10138	Butylbenzylphthalate	85-68-7	58	J	33	98	5
10138	Di-n-butylphthalate	84-74-2	70	J	33	98	5
10138	Chrysene	218-01-9	66		1.8	9.1	5
10138	Dibenz(a,h)anthracene	53-70-3	13		3.6	9.1	5
10138	Fluoranthene	206-44-0	67		3.6	9.1	5
10138	Fluorene	86-73-7	3.6	U	3.6	9.1	5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.1	5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.1	5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.1	5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.1	5
10138	Di-n-octylphthalate	117-84-0	41	J	33	98	5
10138	Phenanthrene	85-01-8	38		3.6	9.1	5
10138	Pyrene	129-00-0	58		3.6	9.1	5
	Reporting limits were raised due to interference from the sample matrix.						
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0	23.67
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-123-SA6-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA6-SB-7.0-8.0

LLI Sample # SW 6360505
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:50

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1207 SDG#: DE212-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	54	U	54	180	50
10225	Aroclor 5442	12642-23-8	54	U	54	180	50
10225	Aroclor 5460	11126-42-4	1,300		54	180	50
10225	PCB-1016	12674-11-2	18	U	18	92	50
10225	PCB-1221	11104-28-2	18	U	18	92	50
10225	PCB-1232	11141-16-5	18	U	18	92	50
10225	PCB-1242	53469-21-9	18	U	18	92	50
10225	PCB-1248	12672-29-6	18	U	18	92	50
10225	PCB-1254	11097-69-1	980		18	92	50
10225	PCB-1260	11096-82-5	21	U	21	92	50
10225	PCB-1262	37324-23-5	18	U	18	92	50
10225	PCB-1268	11100-14-4	18	U	18	92	50
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540	1
10501	Isopropanol	67-63-0	110	U	110	540	1
10501	Methanol	67-56-1	110	U	110	540	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11	1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11	1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	8.7	U	8.7	26	20
10199	EFH (C15-C20)	n.a.	8.7	U	8.7	26	20
10199	EFH (C21-C30)	n.a.	120		8.7	26	20
10199	EFH (C30 - C40)	n.a.	400		8.7	26	20
10199	EFH (C8-C11)	n.a.	8.7	U	8.7	26	20
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,800		6.52	21.5	1
07914	Boron	7440-42-8	1.44	J	0.388	5.39	1
01650	Calcium	7440-70-2	13,400		2.69	21.5	1
01654	Iron	7439-89-6	27,400		2.81	21.5	1
01656	Lithium	7439-93-2	17.8		0.67	2.2	1
01657	Magnesium	7439-95-4	4,610		0.474	10.8	1
06958	Manganese	7439-96-5	255		0.0388	0.539	1
10145	Phosphorus	7723-14-0	532		0.377	10.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-123-SA6-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA6-SB-7.0-8.0

LLI Sample # SW 6360505
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:50

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1207 SDG#: DE212-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	2,250		12.2	53.9	1
01667	Sodium	7440-23-5	357		6.41	108	1
07968	Strontium	7440-24-6	38.9		0.0269	0.539	1
06969	Tin	7440-31-5	2.88	J	0.345	10.8	1
06970	Titanium	7440-32-6	963		0.0765	1.08	1
10146	Zirconium	7440-67-7	4.70	J	0.496	5.39	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.318		0.0782	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.0		0.0845	0.423	2
06126	Barium	7440-39-3	70.5		0.112	0.423	2
06127	Beryllium	7440-41-7	0.380		0.0169	0.106	2
06128	Cadmium	7440-43-9	1.12		0.0465	0.106	2
06131	Chromium	7440-47-3	13.5		0.127	0.423	2
06132	Cobalt	7440-48-4	10.5		0.0211	0.106	2
06133	Copper	7440-50-8	15.8		0.0845	0.423	2
06135	Lead	7439-92-1	11.1		0.0108	0.211	2
06138	Molybdenum	7439-98-7	0.645		0.0528	0.106	2
06139	Nickel	7440-02-0	15.1		0.106	0.423	2
06141	Selenium	7782-49-2	0.0999	J	0.0613	0.423	2
06142	Silver	7440-22-4	0.0289	J	0.0150	0.106	2
06145	Thallium	7440-28-0	0.182		0.0317	0.106	2
06148	Vanadium	7440-62-2	71.4		0.0232	0.106	2
06149	Zinc	7440-66-6	56.8		0.592	3.17	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	3.22		0.0734	1.04	10
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.87	U	0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.23	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	10.3		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.1		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-123-SA6-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA6-SB-7.0-8.0

LLI Sample # SW 6360505
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:50

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1207 SDG#: DE212-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-123-SA6-SB-7.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11221SLE026	08/19/2011 15:20	Florida A Cimino	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11222SLD026	08/19/2011 20:08	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11222SLD026	08/11/2011 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11221SLE026	08/10/2011 06:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11215A34A	08/03/2011 13:49	Linda C Pape	23.67
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201121125079	07/30/2011 14:42	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201121125079	07/30/2011 14:42	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112220019A	08/13/2011 19:08	Sarah M Snyder	50
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112220019A	08/10/2011 19:00	Sally L Appleyard	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112130034A	08/02/2011 20:42	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112130002A	08/01/2011 17:00	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112210035A	08/12/2011 19:37	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112210020A	08/11/2011 07:59	Heather E Williams	20
11238	EFH Extraction - Soils	SW-846 3550B	1	112210020A	08/09/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112210035A	08/10/2011 06:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112130034A	08/02/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112130002A	08/01/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112145708007	08/04/2011 03:05	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112145708007	08/04/2011 03:05	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112145708007	08/04/2011 11:07	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112145708007	08/04/2011 03:05	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-123-SA6-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA6-SB-7.0-8.0

LLI Sample # SW 6360505
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:50

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1207 SDG#: DE212-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	112145708007	08/04/2011 03:05	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112145708007	08/04/2011 03:05	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112145708007	08/04/2011 03:05	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112145708007	08/04/2011 03:05	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112145708007	08/04/2011 03:05	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112145708007	08/04/2011 11:07	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112145708007	08/04/2011 03:05	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112145708007	08/04/2011 03:05	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112145708007	08/04/2011 03:05	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112145708007	08/04/2011 03:05	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112141026003A	08/04/2011 00:26	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026003A	08/04/2011 00:26	David K Beck	2
06126	Barium	SW-846 6020	1	112141026003D	08/04/2011 00:26	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026003A	08/04/2011 00:26	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026003A	08/04/2011 00:26	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026003A	08/04/2011 00:26	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026003A	08/04/2011 00:26	David K Beck	2
06133	Copper	SW-846 6020	1	112141026003A	08/04/2011 00:26	David K Beck	2
06135	Lead	SW-846 6020	1	112141026003A	08/04/2011 00:26	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026003C	08/04/2011 00:26	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026003A	08/04/2011 00:26	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026003B	08/04/2011 00:26	David K Beck	2
06142	Silver	SW-846 6020	1	112141026003A	08/04/2011 00:26	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026003A	08/04/2011 00:26	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026003A	08/04/2011 00:26	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026003A	08/04/2011 00:26	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711004	08/03/2011 20:05	Nelli S Markaryan	10
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708007	08/03/2011 11:00	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026003	08/03/2011 11:17	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711004	08/03/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11217621202A	08/05/2011 18:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11217284201A	08/09/2011 03:37	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11227243202A	08/16/2011 20:52	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11217621202A	08/05/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11217284201A	08/05/2011 16:00	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11216039402A	08/04/2011 20:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11227243202A	08/15/2011 21:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360506
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1208 SDG#: DE212-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	Diethylphthalate	84-66-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	Dimethylphthalate	131-11-3	18	U	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-125-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360506
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1208 SDG#: DE212-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	97		3.6	9.1	5
10138	Acenaphthylene	208-96-8	3.7	J	1.8	9.1	5
10138	Anthracene	120-12-7	730		1.8	9.1	5
10138	Benzo(a)anthracene	56-55-3	960		3.6	9.1	5
10138	Benzo(a)pyrene	50-32-8	550		3.6	9.1	5
10138	Benzo(b)fluoranthene	205-99-2	930		3.6	9.1	5
10138	Benzo(g,h,i)perylene	191-24-2	300		3.6	9.1	5
10138	Benzo(k)fluoranthene	207-08-9	420		3.6	9.1	5
10138	Di-n-butylphthalate	84-74-2	57	J	33	98	5
10138	Chrysene	218-01-9	750		1.8	9.1	5
10138	Dibenz(a,h)anthracene	53-70-3	69		3.6	9.1	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	84	J	33	98	5
10138	Fluoranthene	206-44-0	3,100		18	46	25
10138	Fluorene	86-73-7	110		3.6	9.1	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	280		3.6	9.1	5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.1	5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.1	5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.1	5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.1	5
10138	Phenanthrene	85-01-8	2,600		18	46	25
10138	Pyrene	129-00-0	1,900		18	46	25
	Reporting limits were raised due to interference from the sample matrix.						
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1	22.08
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	6.5		1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-125-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360506
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1208 SDG#: DE212-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	3.9		0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550	1
10501	Isopropanol	67-63-0	110	U	110	550	1
10501	Methanol	67-56-1	110	U	110	550	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11	1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11	1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.88	U	0.88	2.6	2
10199	EFH (C15-C20)	n.a.	0.88	U	0.88	2.6	2
10199	EFH (C21-C30)	n.a.	7.7		0.88	2.6	2
10199	EFH (C30 - C40)	n.a.	19		0.88	2.6	2
10199	EFH (C8-C11)	n.a.	0.88	U	0.88	2.6	2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,500		6.55	21.7	1
07914	Boron	7440-42-8	5.81		0.390	5.42	1
01650	Calcium	7440-70-2	26,400		2.71	21.7	1
01654	Iron	7439-89-6	23,800		2.83	21.7	1
01656	Lithium	7439-93-2	24.2		0.67	2.2	1
01657	Magnesium	7439-95-4	5,990		0.477	10.8	1
06958	Manganese	7439-96-5	272		0.0390	0.542	1
10145	Phosphorus	7723-14-0	527		0.379	10.8	1
01662	Potassium	7440-09-7	3,610		12.2	54.2	1
01667	Sodium	7440-23-5	227		6.45	108	1
07968	Strontium	7440-24-6	58.0		0.0271	0.542	1
06969	Tin	7440-31-5	2.96	J	0.347	10.8	1
06970	Titanium	7440-32-6	1,130		0.0769	1.08	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-125-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360506
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1208 SDG#: DE212-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	5.55	0.498	5.42	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.129 J	0.0786	0.212	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	4.45	0.0850	0.425	2
06126	Barium	7440-39-3	75.9	0.113	0.425	2
06127	Beryllium	7440-41-7	0.518	0.0170	0.106	2
06128	Cadmium	7440-43-9	0.202	0.0467	0.106	2
06131	Chromium	7440-47-3	21.2	0.127	0.425	2
06132	Cobalt	7440-48-4	7.17	0.0212	0.106	2
06133	Copper	7440-50-8	11.1	0.0850	0.425	2
06135	Lead	7439-92-1	6.78	0.0108	0.212	2
06138	Molybdenum	7439-98-7	0.346	0.0531	0.106	2
06139	Nickel	7440-02-0	13.7	0.106	0.425	2
06141	Selenium	7782-49-2	0.166 J	0.0616	0.425	2
06142	Silver	7440-22-4	0.0238 J	0.0151	0.106	2
06145	Thallium	7440-28-0	0.263	0.0319	0.106	2
06148	Vanadium	7440-62-2	44.7	0.0234	0.106	2
06149	Zinc	7440-66-6	55.3	0.595	3.19	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0790 J	0.0074	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9	0.88	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.8	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26 J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.25	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: SL-125-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360506
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1208 SDG#: DE212-08BKG

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-125-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11221SLE026	08/19/2011 00:59	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11222SLD026	08/19/2011 15:16	Gregory J Drahovsky	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11222SLD026	08/19/2011 20:41	Gregory J Drahovsky	25
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11222SLD026	08/11/2011 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11221SLE026	08/10/2011 06:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11215A34A	08/04/2011 00:40	Linda C Pape	22.08
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201121125079	07/30/2011 14:45	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201121125079	07/30/2011 14:46	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112220019A	08/13/2011 19:26	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112220019A	08/10/2011 19:00	Sally L Appleyard	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112130034A	08/02/2011 20:57	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112130002A	08/01/2011 17:13	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112210035A	08/12/2011 12:09	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112210020A	08/11/2011 05:36	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112210020A	08/09/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112210035A	08/10/2011 06:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112130034A	08/02/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112130002A	08/01/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112145708007	08/04/2011 02:12	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112145708007	08/04/2011 02:12	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112145708007	08/04/2011 10:00	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112145708007	08/04/2011 02:12	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112145708007	08/04/2011 02:12	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112145708007	08/04/2011 02:12	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112145708007	08/04/2011 02:12	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112145708007	08/04/2011 02:12	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112145708007	08/04/2011 02:12	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112145708007	08/04/2011 10:00	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112145708007	08/04/2011 02:12	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112145708007	08/04/2011 02:12	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-125-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360506
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1208 SDG#: DE212-08BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112145708007	08/04/2011 02:12	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112145708007	08/04/2011 02:12	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112141026003A	08/03/2011 23:43	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026003A	08/03/2011 23:43	David K Beck	2
06126	Barium	SW-846 6020	1	112141026003D	08/03/2011 23:43	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026003A	08/03/2011 23:43	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026003A	08/03/2011 23:43	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026003A	08/03/2011 23:43	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026003A	08/03/2011 23:43	David K Beck	2
06133	Copper	SW-846 6020	1	112141026003A	08/03/2011 23:43	David K Beck	2
06135	Lead	SW-846 6020	1	112141026003A	08/03/2011 23:43	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026003C	08/03/2011 23:43	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026003A	08/03/2011 23:43	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026003B	08/03/2011 23:43	David K Beck	2
06142	Silver	SW-846 6020	1	112141026003A	08/03/2011 23:43	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026003A	08/03/2011 23:43	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026003A	08/03/2011 23:43	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026003A	08/03/2011 23:43	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711004	08/03/2011 19:51	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708007	08/03/2011 11:00	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026003	08/03/2011 11:17	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711004	08/03/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11217621202A	08/05/2011 15:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11217284201A	08/08/2011 23:46	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11227243202A	08/16/2011 21:19	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11217621202A	08/05/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11217284201A	08/05/2011 16:00	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11216039402A	08/04/2011 20:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11227243202A	08/15/2011 21:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

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Analysis Report

Sample Description: SL-125-SA6-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360507
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1208 SDG#: DE212-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700	18	180	1
04688	Acenaphthylene	208-96-8	1,800	18	180	1
04688	Aniline	62-53-3	1,200	180	550	1
04688	Anthracene	120-12-7	1,800	18	180	1
04688	Benzidine	92-87-5	4,700	1,300	3,600	1
04688	Benzo(a)anthracene	56-55-3	1,700	18	180	1
04688	Benzo(a)pyrene	50-32-8	1,800	18	180	1
04688	Benzo(b)fluoranthene	205-99-2	1,900	18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	2,100	18	180	1
04688	Benzo(k)fluoranthene	207-08-9	1,800	18	180	1
04688	Benzoic acid	65-85-0	1,100	180	550	1
04688	Benzyl alcohol	100-51-6	1,600	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	1,800	18	180	1
04688	Butylbenzylphthalate	85-68-7	2,000	18	180	1
04688	Di-n-butylphthalate	84-74-2	1,800	18	180	1
04688	Carbazole	86-74-8	1,700	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	1,600	36	180	1
04688	4-Chloroaniline	106-47-8	780	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700	18	180	1
04688	2-Chloronaphthalene	91-58-7	1,900	18	180	1
04688	2-Chlorophenol	95-57-8	1,800	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600	36	180	1
04688	Chrysene	218-01-9	1,800	18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	2,000	18	180	1
04688	Dibenzofuran	132-64-9	1,700	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	1,600	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	1,600	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	1,600	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,000	110	360	1
04688	2,4-Dichlorophenol	120-83-2	1,700	18	180	1
04688	Diethylphthalate	84-66-2	1,800	18	180	1
04688	2,4-Dimethylphenol	105-67-9	1,700	36	180	1
04688	3,5-Dimethylphenol	108-68-9	1,800	36	180	1
04688	Dimethylphthalate	131-11-3	1,800	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,500	180	550	1
04688	2,4-Dinitrophenol	51-28-5	2,200	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,700	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	1,700	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	1,900	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900	18	360	1
04688	Fluoranthene	206-44-0	1,800	18	180	1
04688	Fluorene	86-73-7	1,800	18	180	1
04688	Hexachlorobenzene	118-74-1	1,900	18	180	1
04688	Hexachlorobutadiene	87-68-3	1,800	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	2,900	180	550	1
04688	Hexachloroethane	67-72-1	1,600	18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,000	18	180	1
04688	Isophorone	78-59-1	1,700	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-125-SA6-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360507
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1208 SDG#: DE212-08MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,600		18	180	1
04688	2-Methylnaphthalene	91-57-6	1,700		18	180	1
04688	2-Methylphenol	95-48-7	1,800		36	180	1
04688	4-Methylphenol	106-44-5	1,600		36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600		18	180	1
04688	2-Nitroaniline	88-74-4	1,700		18	180	1
04688	3-Nitroaniline	99-09-2	1,600		36	180	1
04688	4-Nitroaniline	100-01-6	1,200		73	180	1
04688	Nitrobenzene	98-95-3	1,800		18	180	1
04688	2-Nitrophenol	88-75-5	1,700		18	180	1
04688	4-Nitrophenol	100-02-7	1,500		180	550	1
04688	N-Nitrosodimethylamine	62-75-9	1,700		36	180	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700		18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	1,800		18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,000		18	180	1
04688	Pentachlorophenol	87-86-5	940		180	550	1
04688	Phenanthrene	85-01-8	1,700		18	180	1
04688	Phenol	108-95-2	1,600		18	180	1
04688	Pyrene	129-00-0	1,800		18	180	1
04688	Tetralin	119-64-2	2,600	E	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	1,700		36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	1,700		36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	37		3.6	9.1	5
10138	Acenaphthylene	208-96-8	36		1.8	9.1	5
10138	Anthracene	120-12-7	61		1.8	9.1	5
10138	Benzo(a)anthracene	56-55-3	80		3.6	9.1	5
10138	Benzo(a)pyrene	50-32-8	59		3.6	9.1	5
10138	Benzo(b)fluoranthene	205-99-2	73		3.6	9.1	5
10138	Benzo(g,h,i)perylene	191-24-2	45		3.6	9.1	5
10138	Benzo(k)fluoranthene	207-08-9	53		3.6	9.1	5
10138	Butylbenzylphthalate	85-68-7	83	J	33	98	5
10138	Di-n-butylphthalate	84-74-2	91	J	33	98	5
10138	Chrysene	218-01-9	70		1.8	9.1	5
10138	Dibenz(a,h)anthracene	53-70-3	28		3.6	9.1	5
10138	Diethylphthalate	84-66-2	45	J	33	98	5
10138	Dimethylphthalate	131-11-3	38	J	33	98	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	80	J	33	98	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-125-SA6-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360507
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1208 SDG#: DE212-08MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	150		3.6	9.1	5
10138	Fluorene	86-73-7	41		3.6	9.1	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	39		3.6	9.1	5
10138	1-Methylnaphthalene	90-12-0	34		3.6	9.1	5
10138	2-Methylnaphthalene	91-57-6	34		3.6	9.1	5
10138	Naphthalene	91-20-3	35		3.6	9.1	5
10138	N-Nitrosodimethylamine	62-75-9	40		3.6	9.1	5
10138	Di-n-octylphthalate	117-84-0	55	J	33	98	5
10138	Phenanthrene	85-01-8	120		3.6	9.1	5
10138	Pyrene	129-00-0	110		3.6	9.1	5
Reporting limits were raised due to interference from the sample matrix.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	7.8		0.2	0.9	21.11
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	7.2		1.1	3.6	1
10225	PCB-1016	12674-11-2	15		0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	8.8		0.36	1.9	1
10225	PCB-1260	11096-82-5	16		0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,300		110	550	1
10501	Isopropanol	67-63-0	2,200		110	550	1
10501	Methanol	67-56-1	2,200		110	550	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	73		5.5	11	1
08283	Ethylene glycol	107-21-1	140		5.5	11	1
08283	Propylene glycol	57-55-6	140		5.5	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.3	J	1.2	3.8	1
10318	o-Terphenyl	84-15-1	1.6	J	1.5	3.8	1
10318	p-Terphenyl	92-94-4	1.3	J	1.2	3.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-125-SA6-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360507
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1208 SDG#: DE212-08MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.88	U	0.88	2.6	2
10199	EFH (C15-C20)	n.a.	1.7	J	0.88	2.6	2
10199	EFH (C21-C30)	n.a.	12		0.88	2.6	2
10199	EFH (C30 - C40)	n.a.	23		0.88	2.6	2
10199	EFH (C8-C11)	n.a.	0.88	U	0.88	2.6	2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,900		6.49	21.5	1
07914	Boron	7440-42-8	211		0.386	5.36	1
01650	Calcium	7440-70-2	18,200		2.68	21.5	1
01654	Iron	7439-89-6	18,300		2.80	21.5	1
01656	Lithium	7439-93-2	134		0.67	2.1	1
01657	Magnesium	7439-95-4	4,910		0.472	10.7	1
06958	Manganese	7439-96-5	287		0.0386	0.536	1
10145	Phosphorus	7723-14-0	485		0.375	10.7	1
01662	Potassium	7440-09-7	4,080		12.1	53.6	1
01667	Sodium	7440-23-5	1,230		6.38	107	1
07968	Strontium	7440-24-6	145		0.0268	0.536	1
06969	Tin	7440-31-5	394		0.343	10.7	1
06970	Titanium	7440-32-6	1,120		0.0762	1.07	1
10146	Zirconium	7440-67-7	115		0.493	5.36	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.525		0.0810	0.219	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.63		0.0875	0.438	2
06126	Barium	7440-39-3	99.6		0.116	0.438	2
06127	Beryllium	7440-41-7	1.26		0.0175	0.109	2
06128	Cadmium	7440-43-9	1.26		0.0481	0.109	2
06131	Chromium	7440-47-3	36.6		0.131	0.438	2
06132	Cobalt	7440-48-4	58.2		0.0219	0.109	2
06133	Copper	7440-50-8	22.0		0.0875	0.438	2
06135	Lead	7439-92-1	10.0		0.0112	0.219	2
06138	Molybdenum	7439-98-7	10.8		0.0547	0.109	2
06139	Nickel	7440-02-0	27.8		0.109	0.438	2
06141	Selenium	7782-49-2	2.26		0.0635	0.438	2
06142	Silver	7440-22-4	10.9		0.0155	0.109	2
06145	Thallium	7440-28-0	0.679		0.0328	0.109	2
06148	Vanadium	7440-62-2	53.3		0.0241	0.109	2
06149	Zinc	7440-66-6	62.8		0.613	3.28	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.204		0.0074	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-125-SA6-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360507
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1208 SDG#: DE212-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.8	0.89	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	559	9.8	32.8	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	40.7	1.1	5.4	5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-125-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11221SLE026	08/19/2011 01:24	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11222SLD026	08/19/2011 15:48	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11222SLD026	08/11/2011 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11221SLE026	08/10/2011 06:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11215A34A	08/04/2011 01:16	Linda C Pape	21.11
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201121125079	07/30/2011 14:46	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201121125079	07/30/2011 14:46	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112220019A	08/13/2011 19:45	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112220019A	08/10/2011 19:00	Sally L Appleyard	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112130034A	08/02/2011 21:12	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112130002A	08/01/2011 18:17	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112210035A	08/12/2011 12:54	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112210020A	08/11/2011 06:00	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112210020A	08/09/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112210035A	08/10/2011 06:00	Joseph S Feister	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-125-SA6-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360507
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1208 SDG#: DE212-08MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112130034A	08/02/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112130002A	08/01/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112145708007	08/04/2011 02:24	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112145708007	08/04/2011 02:24	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112145708007	08/04/2011 10:12	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112145708007	08/04/2011 02:24	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112145708007	08/04/2011 02:24	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112145708007	08/04/2011 02:24	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112145708007	08/04/2011 02:24	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112145708007	08/04/2011 02:24	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112145708007	08/04/2011 02:24	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112145708007	08/04/2011 10:12	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112145708007	08/04/2011 02:24	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112145708007	08/04/2011 02:24	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112145708007	08/04/2011 02:24	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112145708007	08/04/2011 02:24	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112141026003A	08/03/2011 23:52	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026003A	08/03/2011 23:52	David K Beck	2
06126	Barium	SW-846 6020	1	112141026003D	08/03/2011 23:52	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026003A	08/03/2011 23:52	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026003A	08/03/2011 23:52	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026003A	08/03/2011 23:52	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026003A	08/03/2011 23:52	David K Beck	2
06133	Copper	SW-846 6020	1	112141026003A	08/03/2011 23:52	David K Beck	2
06135	Lead	SW-846 6020	1	112141026003A	08/03/2011 23:52	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026003C	08/03/2011 23:52	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026003A	08/03/2011 23:52	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026003B	08/03/2011 23:52	David K Beck	2
06142	Silver	SW-846 6020	1	112141026003A	08/03/2011 23:52	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026003A	08/03/2011 23:52	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026003A	08/03/2011 23:52	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026003A	08/03/2011 23:52	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711004	08/03/2011 19:53	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708007	08/03/2011 11:00	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026003	08/03/2011 11:17	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711004	08/03/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11217621202A	08/05/2011 16:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11217284201A	08/09/2011 00:32	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11227243202A	08/16/2011 21:32	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11217621202A	08/05/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11217284201A	08/05/2011 16:00	Alex M Rittle	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-125-SA6-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360507
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1208 SDG#: DE212-08MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11227243202A	08/15/2011 21:15	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-125-SA6-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360508
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1208 SDG#: DE212-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		18	180	1
04688	Acenaphthylene	208-96-8	1,900		18	180	1
04688	Aniline	62-53-3	1,100		180	550	1
04688	Anthracene	120-12-7	1,800		18	180	1
04688	Benzidine	92-87-5	3,600	J	1,300	3,600	1
04688	Benzo(a)anthracene	56-55-3	1,800		18	180	1
04688	Benzo(a)pyrene	50-32-8	1,800		18	180	1
04688	Benzo(b)fluoranthene	205-99-2	1,900		18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	2,100		18	180	1
04688	Benzo(k)fluoranthene	207-08-9	1,700		18	180	1
04688	Benzoic acid	65-85-0	1,200		180	550	1
04688	Benzyl alcohol	100-51-6	1,600		180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		18	180	1
04688	Butylbenzylphthalate	85-68-7	1,800		18	180	1
04688	Di-n-butylphthalate	84-74-2	1,800		18	180	1
04688	Carbazole	86-74-8	1,700		18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		36	180	1
04688	4-Chloroaniline	106-47-8	900		73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		18	180	1
04688	2-Chloronaphthalene	91-58-7	1,900		18	180	1
04688	2-Chlorophenol	95-57-8	1,700		18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		36	180	1
04688	Chrysene	218-01-9	1,700		18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	2,100		18	180	1
04688	Dibenzofuran	132-64-9	1,700		18	180	1
04688	1,2-Dichlorobenzene	95-50-1	1,500		18	180	1
04688	1,3-Dichlorobenzene	541-73-1	1,400		18	180	1
04688	1,4-Dichlorobenzene	106-46-7	1,500		18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,000		110	360	1
04688	2,4-Dichlorophenol	120-83-2	1,700		18	180	1
04688	Diethylphthalate	84-66-2	1,800		18	180	1
04688	2,4-Dimethylphenol	105-67-9	1,800		36	180	1
04688	3,5-Dimethylphenol	108-68-9	1,900		36	180	1
04688	Dimethylphthalate	131-11-3	1,800		18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,600		180	550	1
04688	2,4-Dinitrophenol	51-28-5	2,300		360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,700		36	180	1
04688	2,6-Dinitrotoluene	606-20-2	1,900		18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900		18	360	1
04688	Fluoranthene	206-44-0	1,800		18	180	1
04688	Fluorene	86-73-7	1,800		18	180	1
04688	Hexachlorobenzene	118-74-1	1,900		18	180	1
04688	Hexachlorobutadiene	87-68-3	1,700		73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	2,900		180	550	1
04688	Hexachloroethane	67-72-1	1,500		18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,000		18	180	1
04688	Isophorone	78-59-1	1,700		18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-125-SA6-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360508
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1208 SDG#: DE212-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,600		18	180	1
04688	2-Methylnaphthalene	91-57-6	1,700		18	180	1
04688	2-Methylphenol	95-48-7	1,700		36	180	1
04688	4-Methylphenol	106-44-5	1,500		36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600		18	180	1
04688	2-Nitroaniline	88-74-4	1,900		18	180	1
04688	3-Nitroaniline	99-09-2	1,600		36	180	1
04688	4-Nitroaniline	100-01-6	1,400		73	180	1
04688	Nitrobenzene	98-95-3	1,800		18	180	1
04688	2-Nitrophenol	88-75-5	1,700		18	180	1
04688	4-Nitrophenol	100-02-7	1,600		180	550	1
04688	N-Nitrosodimethylamine	62-75-9	1,700		36	180	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600		18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	1,800		18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,900		18	180	1
04688	Pentachlorophenol	87-86-5	1,600		180	550	1
04688	Phenanthrene	85-01-8	1,700		18	180	1
04688	Phenol	108-95-2	1,600		18	180	1
04688	Pyrene	129-00-0	1,800		18	180	1
04688	Tetralin	119-64-2	2,300	E	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	1,900		36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	1,800		36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	34		3.6	9.1	5
10138	Acenaphthylene	208-96-8	36		1.8	9.1	5
10138	Anthracene	120-12-7	38		1.8	9.1	5
10138	Benzo(a)anthracene	56-55-3	45		3.6	9.1	5
10138	Benzo(a)pyrene	50-32-8	37		3.6	9.1	5
10138	Benzo(b)fluoranthene	205-99-2	41		3.6	9.1	5
10138	Benzo(g,h,i)perylene	191-24-2	32		3.6	9.1	5
10138	Benzo(k)fluoranthene	207-08-9	39		3.6	9.1	5
10138	Butylbenzylphthalate	85-68-7	83	J	33	98	5
10138	Di-n-butylphthalate	84-74-2	92	J	33	98	5
10138	Chrysene	218-01-9	39		1.8	9.1	5
10138	Dibenz(a,h)anthracene	53-70-3	26		3.6	9.1	5
10138	Diethylphthalate	84-66-2	45	J	33	98	5
10138	Dimethylphthalate	131-11-3	39	J	33	98	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	84	J	33	98	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-125-SA6-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360508
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1208 SDG#: DE212-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	48		3.6	9.1	5
10138	Fluorene	86-73-7	37		3.6	9.1	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	29		3.6	9.1	5
10138	1-Methylnaphthalene	90-12-0	34		3.6	9.1	5
10138	2-Methylnaphthalene	91-57-6	34		3.6	9.1	5
10138	Naphthalene	91-20-3	34		3.6	9.1	5
10138	N-Nitrosodimethylamine	62-75-9	40		3.6	9.1	5
10138	Di-n-octylphthalate	117-84-0	56	J	33	98	5
10138	Phenanthrene	85-01-8	40		3.6	9.1	5
10138	Pyrene	129-00-0	45		3.6	9.1	5
Reporting limits were raised due to interference from the sample matrix.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	8.0		0.2	0.9	20.1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	6.7		1.1	3.6	1
10225	PCB-1016	12674-11-2	16		0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	9.6		0.36	1.9	1
10225	PCB-1260	11096-82-5	17		0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,400		110	550	1
10501	Isopropanol	67-63-0	2,400		110	550	1
10501	Methanol	67-56-1	2,300		110	550	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	70		5.5	11	1
08283	Ethylene glycol	107-21-1	130		5.5	11	1
08283	Propylene glycol	57-55-6	130		5.5	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.2	J	1.2	3.8	1
10318	o-Terphenyl	84-15-1	1.5	J	1.4	3.8	1
10318	p-Terphenyl	92-94-4	1.2	J	1.2	3.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-125-SA6-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360508
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

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Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1208 SDG#: DE212-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.88	U	0.88	2.6	2
10199	EFH (C15-C20)	n.a.	2.5	J	0.88	2.6	2
10199	EFH (C21-C30)	n.a.	15		0.88	2.6	2
10199	EFH (C30 - C40)	n.a.	23		0.88	2.6	2
10199	EFH (C8-C11)	n.a.	0.88	U	0.88	2.6	2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,000		6.62	21.9	1
07914	Boron	7440-42-8	217		0.394	5.47	1
01650	Calcium	7440-70-2	28,100		2.74	21.9	1
01654	Iron	7439-89-6	25,800		2.86	21.9	1
01656	Lithium	7439-93-2	145		0.68	2.2	1
01657	Magnesium	7439-95-4	7,050		0.481	10.9	1
06958	Manganese	7439-96-5	358		0.0394	0.547	1
10145	Phosphorus	7723-14-0	598		0.383	10.9	1
01662	Potassium	7440-09-7	5,590		12.4	54.7	1
01667	Sodium	7440-23-5	1,310		6.51	109	1
07968	Strontium	7440-24-6	162		0.0274	0.547	1
06969	Tin	7440-31-5	391		0.350	10.9	1
06970	Titanium	7440-32-6	1,520		0.0777	1.09	1
10146	Zirconium	7440-67-7	113		0.503	5.47	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.609		0.0794	0.215	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.94		0.0858	0.429	2
06126	Barium	7440-39-3	93.7		0.114	0.429	2
06127	Beryllium	7440-41-7	1.18		0.0172	0.107	2
06128	Cadmium	7440-43-9	1.25		0.0472	0.107	2
06131	Chromium	7440-47-3	23.7		0.129	0.429	2
06132	Cobalt	7440-48-4	60.6		0.0215	0.107	2
06133	Copper	7440-50-8	23.7		0.0858	0.429	2
06135	Lead	7439-92-1	12.4		0.0109	0.215	2
06138	Molybdenum	7439-98-7	10.9		0.0536	0.107	2
06139	Nickel	7440-02-0	20.1		0.107	0.429	2
06141	Selenium	7782-49-2	2.22		0.0622	0.429	2
06142	Silver	7440-22-4	10.8		0.0152	0.107	2
06145	Thallium	7440-28-0	0.639		0.0322	0.107	2
06148	Vanadium	7440-62-2	44.1		0.0236	0.107	2
06149	Zinc	7440-66-6	54.7		0.601	3.22	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.184		0.0072	0.102	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-125-SA6-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360508
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1208 SDG#: DE212-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-125-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11221SLE026	08/19/2011 01:49	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11222SLD026	08/19/2011 16:20	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11222SLD026	08/11/2011 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11221SLE026	08/10/2011 06:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11215A34A	08/04/2011 01:53	Linda C Pape	20.1
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201121125079	07/30/2011 14:46	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201121125079	07/30/2011 14:47	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112220019A	08/13/2011 20:03	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112220019A	08/10/2011 19:00	Sally L Appleyard	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112130034A	08/02/2011 21:27	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112130002A	08/01/2011 18:30	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112210035A	08/12/2011 13:38	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112210020A	08/11/2011 06:24	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112210020A	08/09/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112210035A	08/10/2011 06:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112130034A	08/02/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112130002A	08/01/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112145708007	08/04/2011 02:28	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112145708007	08/04/2011 02:28	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112145708007	08/04/2011 10:16	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112145708007	08/04/2011 02:28	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112145708007	08/04/2011 02:28	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112145708007	08/04/2011 02:28	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-125-SA6-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360508
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1208 SDG#: DE212-08MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	112145708007	08/04/2011 02:28	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112145708007	08/04/2011 02:28	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112145708007	08/04/2011 02:28	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112145708007	08/04/2011 10:16	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112145708007	08/04/2011 02:28	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112145708007	08/04/2011 02:28	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112145708007	08/04/2011 02:28	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112145708007	08/04/2011 02:28	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112141026003A	08/03/2011 23:55	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026003A	08/03/2011 23:55	David K Beck	2
06126	Barium	SW-846 6020	1	112141026003D	08/03/2011 23:55	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026003A	08/03/2011 23:55	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026003A	08/03/2011 23:55	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026003A	08/03/2011 23:55	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026003A	08/03/2011 23:55	David K Beck	2
06133	Copper	SW-846 6020	1	112141026003A	08/03/2011 23:55	David K Beck	2
06135	Lead	SW-846 6020	1	112141026003A	08/03/2011 23:55	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026003C	08/03/2011 23:55	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026003A	08/03/2011 23:55	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026003B	08/03/2011 23:55	David K Beck	2
06142	Silver	SW-846 6020	1	112141026003A	08/03/2011 23:55	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026003A	08/03/2011 23:55	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026003A	08/03/2011 23:55	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026003A	08/03/2011 23:55	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711004	08/03/2011 19:55	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708007	08/03/2011 11:00	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026003	08/03/2011 11:17	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711004	08/03/2011 13:00	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

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Analysis Report

Sample Description: SL-125-SA6-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360509
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1208 SDG#: DE212-08DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,300		6.49	21.5	1
07914	Boron	7440-42-8	5.84		0.386	5.36	1
01650	Calcium	7440-70-2	21,700		2.68	21.5	1
01654	Iron	7439-89-6	22,300		2.80	21.5	1
01656	Lithium	7439-93-2	24.3		0.67	2.1	1
01657	Magnesium	7439-95-4	5,750		0.472	10.7	1
06958	Manganese	7439-96-5	265		0.0386	0.536	1
10145	Phosphorus	7723-14-0	465		0.375	10.7	1
01662	Potassium	7440-09-7	3,540		12.1	53.6	1
01667	Sodium	7440-23-5	197		6.38	107	1
07968	Strontium	7440-24-6	46.8		0.0268	0.536	1
06969	Tin	7440-31-5	2.79	J	0.343	10.7	1
06970	Titanium	7440-32-6	1,110		0.0762	1.07	1
10146	Zirconium	7440-67-7	7.40		0.493	5.36	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0944	J	0.0778	0.210	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.76		0.0842	0.421	2
06126	Barium	7440-39-3	78.4		0.112	0.421	2
06127	Beryllium	7440-41-7	0.603		0.0168	0.105	2
06128	Cadmium	7440-43-9	0.452		0.0463	0.105	2
06131	Chromium	7440-47-3	24.9		0.126	0.421	2
06132	Cobalt	7440-48-4	7.87		0.0210	0.105	2
06133	Copper	7440-50-8	12.6		0.0842	0.421	2
06135	Lead	7439-92-1	7.04		0.0107	0.210	2
06138	Molybdenum	7439-98-7	0.391		0.0526	0.105	2
06139	Nickel	7440-02-0	15.8		0.105	0.421	2
06141	Selenium	7782-49-2	0.206	J	0.0610	0.421	2
06142	Silver	7440-22-4	0.0382	J	0.0149	0.105	2
06145	Thallium	7440-28-0	0.285		0.0316	0.105	2
06148	Vanadium	7440-62-2	51.1		0.0231	0.105	2
06149	Zinc	7440-66-6	58.9		0.589	3.16	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0641	J	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-125-SA6-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360509
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1208 SDG#: DE212-08DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.30	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11626	28a Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
11625	Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112145708007	08/04/2011 02:20	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112145708007	08/04/2011 02:20	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112145708007	08/04/2011 10:08	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112145708007	08/04/2011 02:20	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112145708007	08/04/2011 02:20	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112145708007	08/04/2011 02:20	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112145708007	08/04/2011 02:20	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112145708007	08/04/2011 02:20	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112145708007	08/04/2011 02:20	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112145708007	08/04/2011 10:08	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112145708007	08/04/2011 02:20	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112145708007	08/04/2011 02:20	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112145708007	08/04/2011 02:20	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112145708007	08/04/2011 02:20	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112141026003A	08/03/2011 23:49	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026003A	08/03/2011 23:49	David K Beck	2
06126	Barium	SW-846 6020	1	112141026003D	08/03/2011 23:49	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026003A	08/03/2011 23:49	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026003A	08/03/2011 23:49	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026003A	08/03/2011 23:49	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026003A	08/03/2011 23:49	David K Beck	2
06133	Copper	SW-846 6020	1	112141026003A	08/03/2011 23:49	David K Beck	2
06135	Lead	SW-846 6020	1	112141026003A	08/03/2011 23:49	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026003C	08/03/2011 23:49	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026003A	08/03/2011 23:49	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026003B	08/03/2011 23:49	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA6-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360509
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1208 SDG#: DE212-08DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112141026003A	08/03/2011 23:49	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026003A	08/03/2011 23:49	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026003A	08/03/2011 23:49	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026003A	08/03/2011 23:49	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711004	08/03/2011 19:52	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708007	08/03/2011 11:00	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026003	08/03/2011 11:17	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711004	08/03/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11217621202A	08/05/2011 16:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11217284201A	08/09/2011 00:09	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11227243202A	08/16/2011 22:06	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11217621202A	08/05/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11217284201A	08/05/2011 16:00	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11216039402A	08/04/2011 20:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11227243202A	08/15/2011 21:15	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA6-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-20.0-21.0

LLI Sample # SW 6360510
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 08:15

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1209 SDG#: DE212-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	Diethylphthalate	84-66-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	Dimethylphthalate	131-11-3	19	U	19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-125-SA6-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-20.0-21.0

LLI Sample # SW 6360510
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 08:15

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1209 SDG#: DE212-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	19	U	19	190	1
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	Tetralin	119-64-2	190	U	190	190	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	6.1	J	3.8	9.6	5
10138	Acenaphthylene	208-96-8	2.4	J	1.9	9.6	5
10138	Anthracene	120-12-7	17		1.9	9.6	5
10138	Benzo(a)anthracene	56-55-3	50		3.8	9.6	5
10138	Benzo(a)pyrene	50-32-8	46		3.8	9.6	5
10138	Benzo(b)fluoranthene	205-99-2	65		3.8	9.6	5
10138	Benzo(g,h,i)perylene	191-24-2	24		3.8	9.6	5
10138	Benzo(k)fluoranthene	207-08-9	23		3.8	9.6	5
10138	Di-n-butylphthalate	84-74-2	56	J	35	100	5
10138	Chrysene	218-01-9	50		1.9	9.6	5
10138	Dibenz(a,h)anthracene	53-70-3	4.9	J	3.8	9.6	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	46	J	35	100	5
10138	Fluoranthene	206-44-0	73		3.8	9.6	5
10138	Fluorene	86-73-7	12		3.8	9.6	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	18		3.8	9.6	5
10138	1-Methylnaphthalene	90-12-0	19		3.8	9.6	5
10138	2-Methylnaphthalene	91-57-6	28		3.8	9.6	5
10138	Naphthalene	91-20-3	3.8	U	3.8	9.6	5
10138	N-Nitrosodimethylamine	62-75-9	3.8	U	3.8	9.6	5
10138	Phenanthrene	85-01-8	56		3.8	9.6	5
10138	Pyrene	129-00-0	68		3.8	9.6	5
	Reporting limits were raised due to interference from the sample matrix.						
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9	19.87
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.8	U	5.8	19	5
10225	Aroclor 5442	12642-23-8	5.8	U	5.8	19	5
10225	Aroclor 5460	11126-42-4	150		5.8	19	5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.8	5
10225	PCB-1221	11104-28-2	1.9	U	1.9	9.8	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-125-SA6-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-20.0-21.0

LLI Sample # SW 6360510
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 08:15

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1209 SDG#: DE212-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	1.9	U	1.9	9.8	5
10225	PCB-1242	53469-21-9	1.9	U	1.9	9.8	5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.8	5
10225	PCB-1254	11097-69-1	78		1.9	9.8	5
10225	PCB-1260	11096-82-5	2.2	U	2.2	9.8	5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.8	5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.8	5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580	1
10501	Isopropanol	67-63-0	120	U	120	580	1
10501	Methanol	67-56-1	120	U	120	580	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12	1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12	1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0	1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0	1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.6	U	4.6	14	10
10199	EFH (C15-C20)	n.a.	4.6	U	4.6	14	10
10199	EFH (C21-C30)	n.a.	31		4.6	14	10
10199	EFH (C30 - C40)	n.a.	120		4.6	14	10
10199	EFH (C8-C11)	n.a.	4.6	U	4.6	14	10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,200		6.89	22.8	1
07914	Boron	7440-42-8	1.81	J	0.410	5.70	1
01650	Calcium	7440-70-2	5,510		2.85	22.8	1
01654	Iron	7439-89-6	29,200		2.97	22.8	1
01656	Lithium	7439-93-2	23.9		0.71	2.3	1
01657	Magnesium	7439-95-4	4,960		0.501	11.4	1
06958	Manganese	7439-96-5	320		0.0410	0.570	1
10145	Phosphorus	7723-14-0	336		0.399	11.4	1
01662	Potassium	7440-09-7	2,450		12.9	57.0	1
01667	Sodium	7440-23-5	283		6.78	114	1
07968	Strontium	7440-24-6	27.5		0.0285	0.570	1
06969	Tin	7440-31-5	3.18	J	0.365	11.4	1
06970	Titanium	7440-32-6	1,140		0.0809	1.14	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-125-SA6-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-20.0-21.0

LLI Sample # SW 6360510
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 08:15

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1209 SDG#: DE212-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	5.77	0.524	5.70	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0843 U	0.0843	0.228	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	5.71	0.0911	0.456	2
06126	Barium	7440-39-3	85.7	0.121	0.456	2
06127	Beryllium	7440-41-7	0.572	0.0182	0.114	2
06128	Cadmium	7440-43-9	0.125	0.0501	0.114	2
06131	Chromium	7440-47-3	16.7	0.137	0.456	2
06132	Cobalt	7440-48-4	6.28	0.0228	0.114	2
06133	Copper	7440-50-8	8.65	0.0911	0.456	2
06135	Lead	7439-92-1	6.23	0.0116	0.228	2
06138	Molybdenum	7439-98-7	0.757	0.0570	0.114	2
06139	Nickel	7440-02-0	12.2	0.114	0.456	2
06141	Selenium	7782-49-2	0.0661 U	0.0661	0.456	2
06142	Silver	7440-22-4	0.0420 J	0.0162	0.114	2
06145	Thallium	7440-28-0	0.222	0.0342	0.114	2
06148	Vanadium	7440-62-2	38.0	0.0251	0.114	2
06149	Zinc	7440-66-6	48.9	0.638	3.42	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.233	0.0075	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3	0.94	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.5	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31 J	0.23	1.2	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.71	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-125-SA6-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-20.0-21.0

LLI Sample # SW 6360510
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 08:15

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1209 SDG#: DE212-09

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-125-SA6-SB-20.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11221SLE026	08/20/2011 00:23	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11222SLD026	08/19/2011 21:46	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11222SLD026	08/11/2011 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11221SLE026	08/10/2011 06:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11215A34A	08/04/2011 02:29	Linda C Pape	19.87
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201121125079	07/30/2011 14:48	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201121125079	07/30/2011 14:48	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112220019A	08/13/2011 20:22	Sarah M Snyder	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112220019A	08/10/2011 19:00	Sally L Appleyard	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112130034A	08/02/2011 21:42	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112130002A	08/01/2011 17:26	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112210035A	08/12/2011 15:08	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112220015A	08/13/2011 11:06	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112220015A	08/10/2011 17:45	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	112210035A	08/10/2011 06:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112130034A	08/02/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112130002A	08/01/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112145708007	08/04/2011 03:09	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112145708007	08/04/2011 03:09	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112145708007	08/04/2011 11:11	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112145708007	08/04/2011 03:09	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112145708007	08/04/2011 03:09	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112145708007	08/04/2011 03:09	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112145708007	08/04/2011 03:09	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112145708007	08/04/2011 03:09	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112145708007	08/04/2011 03:09	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112145708007	08/04/2011 11:11	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112145708007	08/04/2011 03:09	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112145708007	08/04/2011 03:09	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112145708007	08/04/2011 03:09	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112145708007	08/04/2011 03:09	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA6-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-20.0-21.0

LLI Sample # SW 6360510
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 08:15

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1209 SDG#: DE212-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112141026003A	08/04/2011 00:29	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026003A	08/04/2011 00:29	David K Beck	2
06126	Barium	SW-846 6020	1	112141026003D	08/04/2011 00:29	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026003A	08/04/2011 00:29	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026003A	08/04/2011 00:29	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026003A	08/04/2011 00:29	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026003A	08/04/2011 00:29	David K Beck	2
06133	Copper	SW-846 6020	1	112141026003A	08/04/2011 00:29	David K Beck	2
06135	Lead	SW-846 6020	1	112141026003A	08/04/2011 00:29	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026003C	08/04/2011 00:29	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026003A	08/04/2011 00:29	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026003B	08/04/2011 00:29	David K Beck	2
06142	Silver	SW-846 6020	1	112141026003A	08/04/2011 00:29	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026003A	08/04/2011 00:29	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026003A	08/04/2011 00:29	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026003A	08/04/2011 00:29	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711004	08/03/2011 19:56	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708007	08/03/2011 11:00	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026003	08/03/2011 11:17	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711004	08/03/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11217621202A	08/05/2011 18:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11217284201A	08/09/2011 04:00	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11227243202A	08/16/2011 22:19	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11217621202A	08/05/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11217284201A	08/05/2011 16:00	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11216039402A	08/04/2011 20:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11227243202A	08/15/2011 21:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-126-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SB-4.0-5.0

LLI Sample # SW 6360511
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 11:35

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1210 SDG#: DE212-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SB-4.0-5.0

LLI Sample # SW 6360511
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 11:35

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1210 SDG#: DE212-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	2.0		0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.69	J	0.35	1.8	1
10138	Anthracene	120-12-7	8.7		0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	2.9		0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	2.0		0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	2.0		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.93	J	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	8.6	J	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	13	J	6.4	19	1
10138	Chrysene	218-01-9	6.1		0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	6.4	19	1
10138	Fluoranthene	206-44-0	2.8		0.71	1.8	1
10138	Fluorene	86-73-7	3.7		0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	3.1		0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	3.1		0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	12		0.71	1.8	1
10138	Pyrene	129-00-0	18		0.71	1.8	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1	22.4
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SB-4.0-5.0

LLI Sample # SW 6360511
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 11:35

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1210 SDG#: DE212-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530	1
10501	Isopropanol	67-63-0	110	U	110	530	1
10501	Methanol	67-56-1	110	U	110	530	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11	1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11	1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3	1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3	1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3	1
10199	EFH (C30 - C40)	n.a.	0.71	J	0.43	1.3	1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,400		6.38	21.1	1
07914	Boron	7440-42-8	1.43	J	0.380	5.27	1
01650	Calcium	7440-70-2	1,660		2.64	21.1	1
01654	Iron	7439-89-6	15,400		2.75	21.1	1
01656	Lithium	7439-93-2	13.4		0.65	2.1	1
01657	Magnesium	7439-95-4	2,870		0.464	10.5	1
06958	Manganese	7439-96-5	133		0.0380	0.527	1
10145	Phosphorus	7723-14-0	77.8		0.369	10.5	1
01662	Potassium	7440-09-7	1,170		11.9	52.7	1
01667	Sodium	7440-23-5	80.2	J	6.27	105	1
07968	Strontium	7440-24-6	14.9		0.0264	0.527	1
06969	Tin	7440-31-5	2.86	J	0.337	10.5	1
06970	Titanium	7440-32-6	880		0.0749	1.05	1
10146	Zirconium	7440-67-7	3.66	J	0.485	5.27	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SB-4.0-5.0

LLI Sample # SW 6360511
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 11:35

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1210 SDG#: DE212-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0765 U	0.0765	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	3.58	0.0827	0.414	2
06126	Barium	7440-39-3	51.6	0.110	0.414	2
06127	Beryllium	7440-41-7	0.554	0.0165	0.103	2
06128	Cadmium	7440-43-9	0.0455 U	0.0455	0.103	2
06131	Chromium	7440-47-3	12.0	0.124	0.414	2
06132	Cobalt	7440-48-4	2.80	0.0207	0.103	2
06133	Copper	7440-50-8	3.81	0.0827	0.414	2
06135	Lead	7439-92-1	4.01	0.0105	0.207	2
06138	Molybdenum	7439-98-7	0.477	0.0517	0.103	2
06139	Nickel	7440-02-0	6.05	0.103	0.414	2
06141	Selenium	7782-49-2	0.0953 J	0.0600	0.414	2
06142	Silver	7440-22-4	0.0347 J	0.0147	0.103	2
06145	Thallium	7440-28-0	0.180	0.0310	0.103	2
06148	Vanadium	7440-62-2	25.2	0.0227	0.103	2
06149	Zinc	7440-66-6	27.1	0.579	3.10	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0189 J	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.86 U	0.86	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6 U	9.6	31.9	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27 J	0.21	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.19	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SB-4.0-5.0

LLI Sample # SW 6360511
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Suite 210
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E1210 SDG#: DE212-10

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-126-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11221SLE026	08/20/2011 00:48	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11222SLD026	08/19/2011 22:19	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11222SLD026	08/11/2011 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11221SLE026	08/10/2011 06:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11215A34A	08/04/2011 03:06	Linda C Pape	22.4
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201121125079	07/30/2011 14:49	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201121125079	07/30/2011 14:49	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112220019A	08/12/2011 17:23	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112220019A	08/10/2011 19:00	Sally L Appleyard	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112130034A	08/02/2011 21:57	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112130002A	08/01/2011 17:38	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112210035A	08/12/2011 09:55	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112220015A	08/13/2011 03:35	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112220015A	08/10/2011 17:45	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	112210035A	08/10/2011 06:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112130034A	08/02/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112130002A	08/01/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112145708007	08/04/2011 03:12	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112145708007	08/04/2011 03:12	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112145708007	08/04/2011 11:22	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112145708007	08/04/2011 03:12	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112145708007	08/04/2011 03:12	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112145708007	08/04/2011 03:12	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112145708007	08/04/2011 03:12	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112145708007	08/04/2011 03:12	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112145708007	08/04/2011 03:12	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112145708007	08/04/2011 11:22	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112145708007	08/04/2011 03:12	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112145708007	08/04/2011 03:12	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112145708007	08/04/2011 03:12	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112145708007	08/04/2011 03:12	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-126-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SB-4.0-5.0

LLI Sample # SW 6360511
LLI Group # 1259104
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Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E1210 SDG#: DE212-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112141026003A	08/04/2011 00:33	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026003A	08/04/2011 00:33	David K Beck	2
06126	Barium	SW-846 6020	1	112141026003D	08/04/2011 00:33	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026003A	08/04/2011 00:33	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026003A	08/04/2011 00:33	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026003A	08/04/2011 00:33	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026003A	08/04/2011 00:33	David K Beck	2
06133	Copper	SW-846 6020	1	112141026003A	08/04/2011 00:33	David K Beck	2
06135	Lead	SW-846 6020	1	112141026003A	08/04/2011 00:33	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026003C	08/04/2011 00:33	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026003A	08/04/2011 00:33	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026003B	08/04/2011 00:33	David K Beck	2
06142	Silver	SW-846 6020	1	112141026003A	08/04/2011 00:33	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026003A	08/04/2011 00:33	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026003A	08/04/2011 00:33	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026003A	08/04/2011 00:33	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711004	08/03/2011 19:59	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708007	08/03/2011 11:00	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026003	08/03/2011 11:17	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711004	08/03/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11217621202A	08/05/2011 18:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11217284201A	08/09/2011 04:23	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11227243202A	08/16/2011 22:33	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11217621202A	08/05/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11217284201A	08/05/2011 16:00	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11216039402B	08/04/2011 20:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11227243202A	08/15/2011 21:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SB-9.0-10.0

LLI Sample # SW 6360512
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 11:45

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1211 SDG#: DE212-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SB-9.0-10.0

LLI Sample # SW 6360512
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 11:45

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1211 SDG#: DE212-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	7.5	J	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	13	J	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.8	J	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1	22.28
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SB-9.0-10.0

LLI Sample # SW 6360512
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 11:45

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1211 SDG#: DE212-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550	1
10501	Isopropanol	67-63-0	110	U	110	550	1
10501	Methanol	67-56-1	110	U	110	550	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11	1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11	1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3	1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3	1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3	1
10199	EFH (C30 - C40)	n.a.	2.4		0.44	1.3	1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,400		6.63	21.9	1
07914	Boron	7440-42-8	1.98	J	0.394	5.48	1
01650	Calcium	7440-70-2	1,160		2.74	21.9	1
01654	Iron	7439-89-6	17,600		2.86	21.9	1
01656	Lithium	7439-93-2	16.2		0.68	2.2	1
01657	Magnesium	7439-95-4	3,870		0.482	11.0	1
06958	Manganese	7439-96-5	114		0.0394	0.548	1
10145	Phosphorus	7723-14-0	59.5		0.383	11.0	1
01662	Potassium	7440-09-7	1,460		12.4	54.8	1
01667	Sodium	7440-23-5	275		6.52	110	1
07968	Strontium	7440-24-6	10.5		0.0274	0.548	1
06969	Tin	7440-31-5	3.11	J	0.350	11.0	1
06970	Titanium	7440-32-6	997		0.0778	1.10	1
10146	Zirconium	7440-67-7	3.36	J	0.504	5.48	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SB-9.0-10.0

LLI Sample # SW 6360512
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 11:45

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1211 SDG#: DE212-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0779 U	0.0779	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	4.38	0.0843	0.421	2
06126	Barium	7440-39-3	38.8	0.112	0.421	2
06127	Beryllium	7440-41-7	0.574	0.0169	0.105	2
06128	Cadmium	7440-43-9	0.0463 U	0.0463	0.105	2
06131	Chromium	7440-47-3	15.3	0.126	0.421	2
06132	Cobalt	7440-48-4	17.6	0.0211	0.105	2
06133	Copper	7440-50-8	6.15	0.0843	0.421	2
06135	Lead	7439-92-1	5.81	0.0107	0.211	2
06138	Molybdenum	7439-98-7	0.342	0.0527	0.105	2
06139	Nickel	7440-02-0	7.57	0.105	0.421	2
06141	Selenium	7782-49-2	0.193 J	0.0611	0.421	2
06142	Silver	7440-22-4	0.0720 J	0.0150	0.105	2
06145	Thallium	7440-28-0	0.280	0.0316	0.105	2
06148	Vanadium	7440-62-2	31.2	0.0232	0.105	2
06149	Zinc	7440-66-6	35.5	0.590	3.16	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075 U	0.0075	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.8	0.86	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	32.9	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31 J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.18	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-126-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SB-9.0-10.0

LLI Sample # SW 6360512
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1211 SDG#: DE212-11

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-126-SA6-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11221SLE026	08/20/2011 01:13	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11222SLD026	08/19/2011 22:52	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11222SLD026	08/11/2011 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11221SLE026	08/10/2011 06:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11215A34A	08/04/2011 03:42	Linda C Pape	22.28
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201121125079	07/30/2011 14:51	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201121125079	07/30/2011 14:51	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112220019A	08/12/2011 17:42	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112220019A	08/10/2011 19:00	Sally L Appleyard	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112130034A	08/02/2011 22:12	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112130002A	08/01/2011 17:51	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112210035A	08/12/2011 10:40	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112220015A	08/13/2011 03:59	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112220015A	08/10/2011 17:45	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	112210035A	08/10/2011 06:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112130034A	08/02/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112130002A	08/01/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112145708007	08/04/2011 03:16	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112145708007	08/04/2011 03:16	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112145708007	08/04/2011 11:26	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112145708007	08/04/2011 03:16	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112145708007	08/04/2011 03:16	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112145708007	08/04/2011 03:16	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112145708007	08/04/2011 03:16	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112145708007	08/04/2011 03:16	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112145708007	08/04/2011 03:16	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112145708007	08/04/2011 11:26	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112145708007	08/04/2011 03:16	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112145708007	08/04/2011 03:16	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112145708007	08/04/2011 03:16	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112145708007	08/04/2011 03:16	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-126-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SB-9.0-10.0

LLI Sample # SW 6360512
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 11:45

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1211 SDG#: DE212-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112141026003A	08/04/2011 00:36	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026003A	08/04/2011 00:36	David K Beck	2
06126	Barium	SW-846 6020	1	112141026003D	08/04/2011 00:36	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026003A	08/04/2011 00:36	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026003A	08/04/2011 00:36	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026003A	08/04/2011 00:36	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026003A	08/04/2011 00:36	David K Beck	2
06133	Copper	SW-846 6020	1	112141026003A	08/04/2011 00:36	David K Beck	2
06135	Lead	SW-846 6020	1	112141026003A	08/04/2011 00:36	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026003C	08/04/2011 00:36	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026003A	08/04/2011 00:36	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026003B	08/04/2011 00:36	David K Beck	2
06142	Silver	SW-846 6020	1	112141026003A	08/04/2011 00:36	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026003A	08/04/2011 00:36	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026003A	08/04/2011 00:36	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026003A	08/04/2011 00:36	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711004	08/03/2011 20:01	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708007	08/03/2011 11:00	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026003	08/03/2011 11:17	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711004	08/03/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11217621202B	08/05/2011 19:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11217284201B	08/09/2011 04:46	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11227243202A	08/16/2011 22:53	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11217621202B	08/05/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11217284201B	08/05/2011 16:00	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11216039402B	08/04/2011 20:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11227243202A	08/15/2011 21:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

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Analysis Report

Sample Description: DUP10-SA6-QC-072911 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA6-QC-072911

LLI Sample # SW 6360513
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 08:00

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1212 SDG#: DE212-12FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzo(a)anthracene	56-55-3	50	J	19	190	1
04688	Benzo(a)pyrene	50-32-8	57	J	19	190	1
04688	Benzo(b)fluoranthene	205-99-2	85	J	19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	65	J	19	190	1
04688	Benzo(k)fluoranthene	207-08-9	28	J	19	190	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Chrysene	218-01-9	54	J	19	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	84,000		1,900	38,000	100
04688	Fluoranthene	206-44-0	89	J	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	36	J	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP10-SA6-QC-072911 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA6-QC-072911

LLI Sample # SW 6360513
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 08:00

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1212 SDG#: DE212-12FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenanthrene	85-01-8	21	J	19	190	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	Pyrene	129-00-0	95	J	19	190	1
04688	Tetralin	119-64-2	190	U	190	190	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: indeno(1,2,3-cd)pyrene						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Butylbenzylphthalate	85-68-7	8.2	J	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	14	J	6.8	20	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1	20.9
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	7.8		1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP10-SA6-QC-072911 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA6-QC-072911

LLI Sample # SW 6360513
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 08:00

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1212 SDG#: DE212-12FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	6.9		0.38	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570	1
10501	Isopropanol	67-63-0	110	U	110	570	1
10501	Methanol	67-56-1	110	U	110	570	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11	1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11	1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0	1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0	1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.5	U	4.5	14	10
10199	EFH (C15-C20)	n.a.	9.2	J	4.5	14	10
10199	EFH (C21-C30)	n.a.	63		4.5	14	10
10199	EFH (C30 - C40)	n.a.	130		4.5	14	10
10199	EFH (C8-C11)	n.a.	4.5	U	4.5	14	10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,400		6.67	22.1	1
07914	Boron	7440-42-8	1.30	J	0.397	5.52	1
01650	Calcium	7440-70-2	10,900		2.76	22.1	1
01654	Iron	7439-89-6	26,700		2.88	22.1	1
01656	Lithium	7439-93-2	16.7		0.68	2.2	1
01657	Magnesium	7439-95-4	4,650		0.485	11.0	1
06958	Manganese	7439-96-5	251		0.0397	0.552	1
10145	Phosphorus	7723-14-0	479		0.386	11.0	1
01662	Potassium	7440-09-7	2,310		12.5	55.2	1
01667	Sodium	7440-23-5	283		6.56	110	1
07968	Strontium	7440-24-6	34.7		0.0276	0.552	1
06969	Tin	7440-31-5	2.95	J	0.353	11.0	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP10-SA6-QC-072911 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA6-QC-072911

LLI Sample # SW 6360513
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 08:00

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1212 SDG#: DE212-12FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
06970	Titanium	7440-32-6	1,000		0.0783	1.10	1
10146	Zirconium	7440-67-7	4.91	J	0.508	5.52	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.110	J	0.0809	0.219	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.88		0.0874	0.437	2
06126	Barium	7440-39-3	101		0.116	0.437	2
06127	Beryllium	7440-41-7	0.382		0.0175	0.109	2
06128	Cadmium	7440-43-9	0.216		0.0481	0.109	2
06131	Chromium	7440-47-3	16.1		0.131	0.437	2
06132	Cobalt	7440-48-4	13.9		0.0219	0.109	2
06133	Copper	7440-50-8	22.1		0.0874	0.437	2
06135	Lead	7439-92-1	10.2		0.0111	0.219	2
06138	Molybdenum	7439-98-7	2.05		0.0546	0.109	2
06139	Nickel	7440-02-0	9.96		0.109	0.437	2
06141	Selenium	7782-49-2	0.117	J	0.0634	0.437	2
06142	Silver	7440-22-4	0.0386	J	0.0155	0.109	2
06145	Thallium	7440-28-0	0.171		0.0328	0.109	2
06148	Vanadium	7440-62-2	38.0		0.0240	0.109	2
06149	Zinc	7440-66-6	50.6		0.612	3.28	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.509		0.0080	0.113	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.92	U	0.92	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.33	J	0.23	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	10.1		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.0		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result

Sample Description: DUP10-SA6-QC-072911 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA6-QC-072911

LLI Sample # SW 6360513
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 08:00

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1212 SDG#: DE212-12FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11221SLE026	08/20/2011 01:38	Ryan P Byrne	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11221SLE026	08/20/2011 17:21	Brian K Graham	100
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11222SLD026	08/19/2011 23:24	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11222SLD026	08/11/2011 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11221SLE026	08/10/2011 06:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11216A34A	08/04/2011 14:14	Marie D John	20.9
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201121125079	07/30/2011 14:52	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201121125079	07/30/2011 14:53	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112220019A	08/13/2011 20:40	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112220019A	08/10/2011 19:00	Sally L Appleyard	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112130034A	08/02/2011 22:26	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112130002A	08/01/2011 18:04	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112210035A	08/12/2011 11:24	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112220015A	08/13/2011 11:29	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112220015A	08/10/2011 17:45	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	112210035A	08/10/2011 06:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112130034A	08/02/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112130002A	08/01/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112145708007	08/04/2011 03:19	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112145708007	08/04/2011 03:19	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112145708007	08/04/2011 11:29	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112145708007	08/04/2011 03:19	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112145708007	08/04/2011 03:19	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112145708007	08/04/2011 03:19	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112145708007	08/04/2011 03:19	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112145708007	08/04/2011 03:19	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112145708007	08/04/2011 03:19	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112145708007	08/04/2011 11:29	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112145708007	08/04/2011 03:19	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112145708007	08/04/2011 03:19	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112145708007	08/04/2011 03:19	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP10-SA6-QC-072911 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA6-QC-072911

LLI Sample # SW 6360513
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 08:00

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1212 SDG#: DE212-12FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112145708007	08/04/2011 03:19	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112141026003A	08/04/2011 00:39	David K Beck	2
06125	Arsenic	SW-846 6020	1	112141026003A	08/04/2011 00:39	David K Beck	2
06126	Barium	SW-846 6020	1	112141026003D	08/04/2011 00:39	David K Beck	2
06127	Beryllium	SW-846 6020	1	112141026003A	08/04/2011 00:39	David K Beck	2
06128	Cadmium	SW-846 6020	1	112141026003A	08/04/2011 00:39	David K Beck	2
06131	Chromium	SW-846 6020	1	112141026003A	08/04/2011 00:39	David K Beck	2
06132	Cobalt	SW-846 6020	1	112141026003A	08/04/2011 00:39	David K Beck	2
06133	Copper	SW-846 6020	1	112141026003A	08/04/2011 00:39	David K Beck	2
06135	Lead	SW-846 6020	1	112141026003A	08/04/2011 00:39	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112141026003C	08/04/2011 00:39	David K Beck	2
06139	Nickel	SW-846 6020	1	112141026003A	08/04/2011 00:39	David K Beck	2
06141	Selenium	SW-846 6020	1	112141026003B	08/04/2011 00:39	David K Beck	2
06142	Silver	SW-846 6020	1	112141026003A	08/04/2011 00:39	David K Beck	2
06145	Thallium	SW-846 6020	1	112141026003A	08/04/2011 00:39	David K Beck	2
06148	Vanadium	SW-846 6020	1	112141026003A	08/04/2011 00:39	David K Beck	2
06149	Zinc	SW-846 6020	1	112141026003A	08/04/2011 00:39	David K Beck	2
00159	Mercury	SW-846 7471A	1	112145711004	08/03/2011 20:02	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112145708007	08/03/2011 11:00	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112141026003	08/03/2011 11:17	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112145711004	08/03/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11217621202B	08/05/2011 20:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11217284201B	08/09/2011 06:18	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11227243202A	08/16/2011 23:06	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11217621202B	08/05/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11217284201B	08/05/2011 16:00	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11216039402B	08/04/2011 20:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11227243202A	08/15/2011 21:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

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Analysis Report

Sample Description: TB-072911 Water
SSFL Area IV Collocated Soil Sampling
TB-072911

LLI Sample # WW 6360514
LLI Group # 1259104
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 08:00

Submitted: 07/30/2011 09:30
Reported: 08/30/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1213 SDG#: DE212-13TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11215A20A	08/03/2011 15:25	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	11215A20A	08/03/2011 15:25	Linda C Pape	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259104
Reported: 08/30/11 at 01:15 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11221SLE026	Sample number(s): 6360499-6360508,6360510-6360513									
Acenaphthene	17	U	17.	170	ug/kg	98		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	103		75-122		
Aniline	170 U		170.	500	ug/kg	80		20-115		
Anthracene	17	U	17.	170	ug/kg	104		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	58		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	101		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	112		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	127		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	121		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	110		67-125		
Benzoic acid	170 U		170.	500	ug/kg	84		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	96		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	114		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	108		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	107		79-112		
Carbazole	17	U	17.	170	ug/kg	105		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	100		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	58		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	99		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	99		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	103		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	110		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	105		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	105		74-115		
Chrysene	17	U	17.	170	ug/kg	104		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	122		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	95		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	94		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	95		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	93		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	63		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	102		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	106		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	102		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	107		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	106		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	66		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	36		18-133		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259104
Reported: 08/30/11 at 01:15 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	102		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	105		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	112		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	111		75-117		
Fluoranthene	17	U	17.	170	ug/kg	102		78-116		
Fluorene	17	U	17.	170	ug/kg	108		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	107		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	100		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	89		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	98		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	121*		64-119		
Isophorone	17	U	17.	170	ug/kg	103		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	101		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	96		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	107		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	96		66-117		
Naphthalene	17	U	17.	170	ug/kg	97		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	109		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	98		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	68		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	106		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	102		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	88		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	97		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	105		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	108		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	118		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	88		51-117		
Phenanthrene	17	U	17.	170	ug/kg	97		77-113		
Phenol	17	U	17.	170	ug/kg	94		58-112		
Pyrene	17	U	17.	170	ug/kg	103		75-115		
Tetralin	170	U	170.	170	ug/kg	97		70-130		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	98		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	101		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	101		78-111		
Batch number: 11222SLD026	Sample number(s): 6360499-6360508,6360510-6360513									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	102		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	98		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	108		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	91		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	111		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	89		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	89		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	133*		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	131		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	107		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	91		53-138		
Diethylphthalate	15	J	6.0	18	ug/kg	124		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	110		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	121		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	102		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	105		71-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259104
Reported: 08/30/11 at 01:15 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	89		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	91		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	94		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	94		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	102		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	99		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	114		72-119		
Batch number: 11215A20A	Sample number(s): 6360514									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	118	118	75-135	0	30
Batch number: 11215A34A	Sample number(s): 6360503-6360508,6360510-6360512									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	78		67-119		
Batch number: 11216A34A	Sample number(s): 6360513									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	70		67-119		
Batch number: 112220019A	Sample number(s): 6360499-6360508,6360510-6360513									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	70	70	36-106	1	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	92		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	100		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112130002A	Sample number(s): 6360503-6360508,6360510-6360513									
Diethylene glycol	5.0	U	5.0	10	mg/kg	99		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	96		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	91		75-125		
Batch number: 112130034A	Sample number(s): 6360503-6360508,6360510-6360513									
Ethanol	100	U	100.	500	ug/kg	96		71-129		
Isopropanol	100	U	100.	500	ug/kg	93		75-125		
Methanol	100	U	100.	500	ug/kg	89		68-129		
Batch number: 112210020A	Sample number(s): 6360503-6360508									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	96		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	99		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	105		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	99		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	81		54-107		
Batch number: 112210035A	Sample number(s): 6360503-6360508,6360510-6360513									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	78		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	92		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	82		75-125		
Batch number: 112220015A	Sample number(s): 6360510-6360513									

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259104
Reported: 08/30/11 at 01:15 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	96		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	102		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	105		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	100		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	77		54-107		
Batch number: 112141026003A	Sample number(s): 6360499-6360513									
Antimony	0.0718	U	0.0718	0.194	mg/kg	65		10-224		
Arsenic	0.0777	U	0.0777	0.388	mg/kg	104		78-122		
Beryllium	0.0155	U	0.0155	0.0971	mg/kg	104		80-120		
Cadmium	0.0427	U	0.0427	0.0971	mg/kg	103		81-119		
Chromium	0.117	U	0.117	0.388	mg/kg	99		77-123		
Cobalt	0.0194	U	0.0194	0.0971	mg/kg	103		80-119		
Copper	0.0777	U	0.0777	0.388	mg/kg	100		78-122		
Lead	0.0099	U	0.0099	0.194	mg/kg	102		77-123		
Nickel	0.0971	U	0.0971	0.388	mg/kg	110		80-120		
Silver	0.0138	U	0.0138	0.0971	mg/kg	105		66-134		
Thallium	0.0291	U	0.0291	0.0971	mg/kg	102		75-124		
Vanadium	0.0214	U	0.0214	0.0971	mg/kg	108		76-124		
Zinc	0.544	U	0.544	2.91	mg/kg	101		79-121		
Batch number: 112141026003B	Sample number(s): 6360499-6360513									
Selenium	0.0563	U	0.0563	0.388	mg/kg	106		77-123		
Batch number: 112141026003C	Sample number(s): 6360499-6360513									
Molybdenum	0.0485	U	0.0485	0.0971	mg/kg	107		76-123		
Batch number: 112141026003D	Sample number(s): 6360499-6360513									
Barium	0.103	U	0.103	0.388	mg/kg	105		80-120		
Batch number: 112145708007	Sample number(s): 6360499-6360513									
Aluminum	10.4	J	5.99	19.8	mg/kg	137		42-158		
Boron	0.356	U	0.356	4.95	mg/kg	100		66-134		
Calcium	5.04	J	2.48	19.8	mg/kg	104		79-121		
Iron	6.50	J	2.58	19.8	mg/kg	120		51-149		
Lithium	0.61	U	0.61	2.0	mg/kg	92		80-120		
Magnesium	0.436	U	0.436	9.90	mg/kg	118		64-136		
Manganese	0.0356	U	0.0356	0.495	mg/kg	94		78-122		
Phosphorus	1.69	J	0.347	9.90	mg/kg	100		80-120		
Potassium	14.9	J	11.2	49.5	mg/kg	111		69-131		
Sodium	5.89	U	5.89	99.0	mg/kg	109		71-129		
Strontium	0.0248	U	0.0248	0.495	mg/kg	100		81-119		
Tin	1.59	J	0.317	9.90	mg/kg	94		74-126		
Titanium	0.0703	U	0.0703	0.990	mg/kg	170		40-186		
Zirconium	1.38	J	0.455	4.95	mg/kg	105		80-120		
Batch number: 112145711004	Sample number(s): 6360499-6360513									
Mercury	0.0070	U	0.0070	0.0990	mg/kg	94		72-128		
Batch number: 11217284201A	Sample number(s): 6360499-6360507,6360509-6360511									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	112		85-115		
Batch number: 11217284201B	Sample number(s): 6360512-6360513									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	112		85-115		
Batch number: 11217621202A	Sample number(s): 6360499-6360507,6360509-6360511									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		

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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259104
Reported: 08/30/11 at 01:15 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11217621202B	Sample number(s): 6360512-6360513									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
Batch number: 11227243202A	Sample number(s): 6360499-6360507,6360509-6360513									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	94		80-120		
Batch number: 11216039402A	Sample number(s): 6360499-6360506,6360509-6360510									
17a pH by 9045C						100		95-105		
Batch number: 11216039402B	Sample number(s): 6360511-6360513									
17a pH by 9045C						100		95-105		
Batch number: 11217162401B	Sample number(s): 6360499-6360513									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11221SLE026	Sample number(s): 6360499-6360508,6360510-6360513 UNSPK: 6360506								
Acenaphthene	92	96	75-115	4	30				
Acenaphthylene	101	104	81-110	3	30				
Aniline	67	61	18-116	9	30				
Anthracene	100	99	75-115	0	30				
Benzidine	52	40	35-141	26	30				
Benzo(a)anthracene	95	96	65-122	2	30				
Benzo(a)pyrene	98	99	57-126	2	30				
Benzo(b)fluoranthene	105	106	59-125	0	30				
Benzo(g,h,i)perylene	114	116	59-127	2	30				
Benzo(k)fluoranthene	97	96	56-132	2	30				
Benzoic acid	61	67	10-173	10	30				
Benzyl alcohol	89	86	67-115	4	30				
4-Bromophenyl-phenylether	99	100	67-129	1	30				
Butylbenzylphthalate	108	101	73-134	7	30				
Di-n-butylphthalate	99	100	67-123	1	30				
Carbazole	93	95	64-120	3	30				
4-Chloro-3-methylphenol	90	94	62-122	5	30				
4-Chloroaniline	43	49	13-107	15	30				
bis(2-Chloroethoxy)methane	95	97	75-104	2	30				
bis(2-Chloroethyl)ether	93	88	60-116	6	30				
bis(2-Chloroisopropyl)ether	93	91	55-142	2	30				
2-Chloronaphthalene	102	105	50-141	3	30				
2-Chlorophenol	97	94	73-121	4	30				
4-Chlorophenyl-phenylether	90	94	80-109	4	30				
Chrysene	100	93	62-128	7	30				
Dibenz(a,h)anthracene	110	115	65-125	4	30				
Dibenzofuran	93	95	71-112	2	30				
1,2-Dichlorobenzene	88	81	66-108	9	30				
1,3-Dichlorobenzene	89	79	63-109	11	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259104
Reported: 08/30/11 at 01:15 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,4-Dichlorobenzene	90	84	58-108	8	30				
3,3'-Dichlorobenzidine	55	57	28-109	4	30				
2,4-Dichlorophenol	94	94	66-123	0	30				
Diethylphthalate	98	101	66-118	3	30				
2,4-Dimethylphenol	94	97	68-118	3	30				
3,5-Dimethylphenol	100	103	71-127	3	30				
Dimethylphthalate	99	101	64-118	2	30				
4,6-Dinitro-2-methylphenol	83	87	11-126	4	30				
2,4-Dinitrophenol	61	62	20-143	2	30				
2,4-Dinitrotoluene	95	95	56-129	0	30				
2,6-Dinitrotoluene	96	104	69-123	8	30				
1,2-Diphenylhydrazine	104	101	71-129	3	30				
bis(2-Ethylhexyl)phthalate	106	103	63-122	3	30				
Fluoranthene	97	99	73-112	1	30				
Fluorene	98	99	63-121	1	30				
Hexachlorobenzene	102	103	77-114	1	30				
Hexachlorobutadiene	99	95	62-120	4	30				
Hexachlorocyclopentadiene	79	81	10-153	2	30				
Hexachloroethane	90	83	57-109	8	30				
Indeno(1,2,3-cd)pyrene	112	110	61-126	2	30				
Isophorone	95	96	73-102	1	30				
1-Methylnaphthalene	89	87	64-122	2	30				
2-Methylnaphthalene	91	93	76-114	3	30				
2-Methylphenol	96	91	75-111	5	30				
4-Methylphenol	88	85	59-123	3	30				
Naphthalene	87	88	72-116	1	30				
2-Nitroaniline	95	102	67-125	8	30				
3-Nitroaniline	90	87	59-122	3	30				
4-Nitroaniline	67	74	41-109	10	30				
Nitrobenzene	100	100	57-125	0	30				
2-Nitrophenol	94	91	56-127	3	30				
4-Nitrophenol	81	87	37-129	7	30				
N-Nitroso-di-n-propylamine	92	88	60-116	4	30				
N-Nitrosodimethylamine	92	91	47-116	1	30				
N-Nitrosodiphenylamine	96	99	71-122	3	30				
Di-n-octylphthalate	107	103	56-126	4	30				
Pentachlorophenol	52	86	28-127	50*	30				
Phenanthrene	96	95	65-125	1	30				
Phenol	88	88	58-126	1	30				
Pyrene	99	97	74-126	2	30				
Tetralin	142*	126	70-130	12	30				
1,2,4-Trichlorobenzene	93	91	72-115	2	30				
2,4,5-Trichlorophenol	92	102	58-129	11	30				
2,4,6-Trichlorophenol	94	98	56-134	4	30				
Batch number: 11222SLD026	Sample number(s): 6360499-6360508,6360510-6360513 UNSPK: 6360506								
Acenaphthene	-165*	-174*	63-105	9	30				
Acenaphthylene	87	88	67-114	1	30				
Anthracene	-1832 (2)	-1897 (2)	73-115	48*	30				
Benzo(a)anthracene	-2403 (2)	-2499 (2)	59-128	55*	30				
Benzo(a)pyrene	-1331	-1392	58-142	46*	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259104
Reported: 08/30/11 at 01:15 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
	(2)	(2)							
Benzo(b)fluoranthene	-2337	-2425	54-163	57*	30				
	(2)	(2)							
Benzo(g,h,i)perylene	-701	-736	33-141	32*	30				
	(2)	(2)							
Benzo(k)fluoranthene	-995	-1035	57-153	32*	30				
	(2)	(2)							
Butylbenzylphthalate	227*	229*	57-173	1	30				
Di-n-butylphthalate	93	96	65-148	1	30				
Chrysene	-1855	-1939	67-123	57*	30				
	(2)	(2)							
Dibenz(a,h)anthracene	-111*	-116*	22-133	7	30				
Diethylphthalate	123	122	70-136	1	30				
Dimethylphthalate	105	108	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	-9*	1*	39-167	5	30				
Fluoranthene	-8183	-8456	51-149	102*	30				
	(2)	(2)							
Fluorene	-190*	-200*	66-122	9	30				
Indeno(1,2,3-cd)pyrene	-651	-681	21-143	32*	30				
	(2)	(2)							
1-Methylnaphthalene	92	94	72-123	2	30				
2-Methylnaphthalene	92	93	64-103	0	30				
Naphthalene	95	94	61-102	1	30				
N-Nitrosodimethylamine	108	109	48-113	1	30				
Di-n-octylphthalate	150	152	40-192	1	30				
Phenanthrene	-6778	-7003	62-122	101*	30				
	(2)	(2)							
Pyrene	-4973	-5162	51-131	87*	30				
	(2)	(2)							
Batch number: 11215A34A	Sample number(s): 6360503-6360508,6360510-6360512 UNSPK: 6360506								
9a TPH by EPA 8015B Gas C5-C12	76	82	39-118	3	30				
Batch number: 11216A34A	Sample number(s): 6360513 UNSPK: P361772								
9a TPH by EPA 8015B Gas C5-C12	68	74	39-118	1	30				
Batch number: 112220019A	Sample number(s): 6360499-6360508,6360510-6360513 UNSPK: 6360506								
PCB-1016	84	87	29-146	3	50				
PCB-1260	88	93	39-149	6	50				
Batch number: 112130002A	Sample number(s): 6360503-6360508,6360510-6360513 UNSPK: 6360506								
Diethylene glycol	34*	32*	59-109	5	20				
Ethylene glycol	66	61*	63-107	9	20				
Propylene glycol	70	65	63-107	7	20				
Batch number: 112130034A	Sample number(s): 6360503-6360508,6360510-6360513 UNSPK: 6360506								
Ethanol	86	88	48-130	3	20				
Isopropanol	82	87	12-149	6	20				
Methanol	79	83	43-138	4	20				
Batch number: 112210020A	Sample number(s): 6360503-6360508 UNSPK: 6360506								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	121	179*	49-123	39*	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259104
Reported: 08/30/11 at 01:15 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
EFH (C21-C30)	177*	301*	49-123	22*	20				
EFH (C30 - C40)	132 (2)	164 (2)	49-123	4	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 112210035A	Sample number(s): 6360503-6360508,6360510-6360513 UNSPK: 6360506								
m-Terphenyl	72*	68*	75-125	5	20				
o-Terphenyl	87	82	75-125	6	20				
p-Terphenyl	69*	66*	75-125	5	20				
Batch number: 112220015A	Sample number(s): 6360510-6360513 UNSPK: P361772								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	0*	0*	49-123	0	20				
EFH (C21-C30)	578 (2)	601 (2)	49-123	2	20				
EFH (C30 - C40)	-325 (2)	-314 (2)	49-123	0	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 112141026003A	Sample number(s): 6360499-6360513 UNSPK: 6360506 BKG: 6360506								
Antimony	30*	37*	75-125	15	20	0.118 J	0.0863 J	31* (1)	20
Arsenic	99	163*	75-125	18	20	4.07	4.35	7	20
Beryllium	84	77	75-125	6	20	0.474	0.552	15 (1)	20
Cadmium	97	98	75-125	0	20	0.184	0.413	77* (1)	20
Chromium	141*	24*	75-125	43*	20	19.4	22.8	16	20
Cobalt	93	100	75-125	4	20	6.56	7.19	9	20
Copper	99	117	75-125	8	20	10.2	11.5	12	20
Lead	98	174*	75-125	21*	20	6.20	6.44	4	20
Nickel	130*	60*	75-125	32*	20	12.5	14.4	14	20
Silver	100	100	75-125	1	20	0.0217 J	0.0349 J	47* (1)	20
Thallium	95	88	75-125	6	20	0.240	0.261	8 (1)	20
Vanadium	78 (2)	-6 (2)	75-125	19	20	40.9	46.8	13	20
Zinc	69 (2)	-5 (2)	75-125	14	20	50.5	53.9	6	20
Batch number: 112141026003B	Sample number(s): 6360499-6360513 UNSPK: 6360506 BKG: 6360506								
Selenium	96	96	75-125	2	20	0.152 J	0.188 J	22* (1)	20
Batch number: 112141026003C	Sample number(s): 6360499-6360513 UNSPK: 6360506 BKG: 6360506								
Molybdenum	96	98	75-125	0	20	0.316	0.357	12 (1)	20
Batch number: 112141026003D	Sample number(s): 6360499-6360513 UNSPK: 6360506 BKG: 6360506								
Barium	217 (2)	166 (2)	75-125	6	20	69.3	71.6	3	20
Batch number: 112145708007	Sample number(s): 6360499-6360513 UNSPK: 6360506 BKG: 6360506								
Aluminum	-708 (2)	2535 (2)	75-125	36*	20	16,000	15,800	1	20
Boron	96	96	84-115	3	20	5.31	5.34	0 (1)	20
Calcium	-1906 (2)	376 (2)	75-125	42*	20	24,100	19,800	20	20
Iron	-5104 (2)	1909 (2)	75-125	34*	20	21,700	20,400	6	20
Lithium	102	111	82-114	8	20	22.2	22.2	0	20
Magnesium	-506 (2)	484 (2)	75-125	36*	20	5,480	5,260	4	20
Manganese	28 (2)	157 (2)	75-125	22*	20	249	242	3	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259104
Reported: 08/30/11 at 01:15 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Phosphorus	-39 (2)	65 (2)	75-125	21*	20	482	425	13	20
Potassium	44*	181*	75-125	31*	20	3,300	3,240	2	20
Sodium	94	99	75-125	6	20	207	180	14 (1)	20
Strontium	81	95	75-115	11	20	53.0	42.8	21*	20
Tin	91	89	80-110	1	20	2.71 J	2.55 J	6 (1)	20
Titanium	-8 (2)	359 (2)	75-125	30*	20	1,030	1,010	2	20
Zirconium	102	98	75-125	2	20	5.07	6.76	29* (1)	20
Batch number: 112145711004	Sample number(s): 6360499-6360513 UNSPK: 6360506 BKG: 6360506								
Mercury	72	62*	65-135	11	20	0.0722 J	0.0586 J	21* (1)	20
Batch number: 11217284201A	Sample number(s): 6360499-6360507,6360509-6360511 UNSPK: 6360506 BKG: 6360506								
7a Perchlorate EPA 314.0	102		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11217284201B	Sample number(s): 6360512-6360513 UNSPK: 6360512 BKG: 6360512								
7a Perchlorate EPA 314.0	107		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11217621202A	Sample number(s): 6360499-6360507,6360509-6360511 UNSPK: 6360506 BKG: 6360506								
11a Anions by 300.0 - Fluoride	81		80-120			1.7	1.6	7 (1)	20
Batch number: 11217621202B	Sample number(s): 6360512-6360513 UNSPK: 6360512 BKG: 6360512								
11a Anions by 300.0 - Fluoride	72*		80-120			5.3	6.5	20	20
Batch number: 11227243202A	Sample number(s): 6360499-6360507,6360509-6360513 UNSPK: 6360506 BKG: 6360506								
3a Cr VI by EPA 7199	93		75-125			0.23 J	0.21 J	13 (1)	20
Batch number: 11216039402A	Sample number(s): 6360499-6360506,6360509-6360510 BKG: 6360506								
17a pH by 9045C						8.25	8.30	1	3
Batch number: 11216039402B	Sample number(s): 6360511-6360513 BKG: 6360513								
17a pH by 9045C						10.1	10.0	1	3
Batch number: 11217162401B	Sample number(s): 6360499-6360513 BKG: 6360506								
28a Moisture Content by 160.3						8.6	7.6	12	20
Moisture Content by 160.3						8.6	7.6	12	20
Moisture Content by 160.3						8.6	7.6	12	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11221SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6360499	88	83	86	84	95	76
6360500	72	71	62	78	77	71
6360501	88	85	80	82	93	70
6360502	78	80	76	83	88	71

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259104
Reported: 08/30/11 at 01:15 PM

Surrogate Quality Control

6360503	98	95	92	101	98	81
6360504	82	82	80	88	81	85
6360505	92	90	77	86	94	72
6360506	90	89	97	88	93	89
6360507	95	93	91	92	95	87
6360508	90	91	98	91	93	77
6360510	100	97	71	91	88	76
6360511	93	95	74	93	88	77
6360512	94	93	82	87	82	73
6360513	93	94	71	86	89	76
Blank	87	86	102	95	89	96
LCS	100	98	101	96	94	83
MS	95	93	91	92	95	87
MSD	90	91	98	91	93	77
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11222SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6360499	102	93	133
6360500	34*	19*	45
6360501	110	95	153*
6360502	100	86	105
6360503	99	88	97
6360504	96	83	91
6360505	95	78	347*
6360506	100	85	94
6360507	105	92	103
6360508	103	90	99
6360510	103	84	110
6360511	94	76	112
6360512	103	89	102
6360513	106	90	103
Blank	97	89	112
LCS	103	94	109
MS	105	92	103
MSD	103	90	99
Limits:	40-130	45-130	45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11215A20A

	Trifluorotoluene-F
6360514	95
Blank	98
LCS	152*
LCSD	150*
Limits:	63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11215A34A

	Trifluorotoluene-F

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259104
Reported: 08/30/11 at 01:15 PM

Surrogate Quality Control

6360503	87
6360504	86
6360505	95
6360506	94
6360507	85
6360508	93
6360510	84
6360511	90
6360512	82
Blank	96
LCS	98
MS	85
MSD	93
Limits:	61-122

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11216A34A

	Trifluorotoluene-F
6360513	87
Blank	94
LCS	91
MS	88
MSD	88
Limits:	61-122

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112220019A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6360499	100	79
6360500	100	105
6360501	94	93
6360502	99	94
6360503	55	120
6360504	73	0*
6360505	82	171*
6360506	83	82
6360507	95	93
6360508	97	97
6360510	80	105
6360511	94	103
6360512	90	100
6360513	91	95
Blank	100	118
LCS	101	99
LCSD	103	96
MS	95	93
MSD	97	97
Limits:	53-139	45-120

Analysis Name: 19a Glycols by 8015B
Batch number: 112130002A

	Tetramethylene glycol

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259104
Reported: 08/30/11 at 01:15 PM

Surrogate Quality Control

6360503	83
6360504	89
6360505	77
6360506	82
6360507	88
6360508	87
6360510	75
6360511	78
6360512	82
6360513	82
Blank	109
LCS	103
MS	88
MSD	87
Limits:	29-137

Analysis Name: 18a Alcohols by 8015B
Batch number: 112130034A

	Acetone
6360503	97
6360504	89
6360505	88
6360506	88
6360507	85
6360508	84
6360510	76
6360511	84
6360512	83
6360513	88
Blank	97
LCS	99
MS	85
MSD	84
Limits:	42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112210020A

	Chlorobenzene	Orthoterphenyl
6360503	83	91
6360504	56	77
6360505	71	90
6360506	71	73
6360507	77	86
6360508	76	85
Blank	80	88
LCS	89	98
MS	77	86
MSD	76	85
Limits:	37-125	47-145

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112210035A

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259104
Reported: 08/30/11 at 01:15 PM

Surrogate Quality Control

	n-Triacontane-d62
6360503	92
6360504	66
6360505	74
6360506	54
6360507	71
6360508	70
6360510	70
6360511	77
6360512	76
6360513	77
Blank	79
LCS	80
MS	71
MSD	70
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112220015A

	Chlorobenzene	Orthoterphenyl
6360510	78	95
6360511	74	95
6360512	74	90
6360513	77	90
Blank	81	95
LCS	85	98
MS	61	69
MSD	82	92
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1259104 sample# 6360499-514

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	
Sampiers Signatures:														
SAMPLE NUMBER	**DATE**	**TIME**	**MATRIX**	**Preservative**	**Type & No. of Containers**									
SL-180-SA5DN-SB-4.0-5.0	7/29/11	0910	SOIL	NONE	2- 16 oz Jars	X	X	X	X	X	X	X	X	
SL-180-SA5DN-SB-9.0-10.0	7/29/11	0912	SOIL	NONE	2- 16 oz Jars	X	X	X	X	X	X	X	X	
SL-174-SA5DN-SB-4.0-5.0	7/29/11	1449	SOIL	NONE	2- 16 oz Jars	X	X	X	X	X	X	X	X	
SL-174-SA5DN-SB-9.0-10.0	7/29/11	1451	SOIL	NONE	2- 16 oz Jars	X	X	X	X	X	X	X	X	
Relinquished by: (*Signature*)	**Date/Time** 07/29/2011 / 1600		**Received for Laboratory by: (*Signature*)** LCS 7/30/11 0930											**Laboratory:** Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**		**Airbill No(s)** 9754 3341 0244,0255											

acct# 13013 Grp# 1259104 Sample# 6360499-514

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									VOCs	SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-122-SA6-SB-0.5	7/29/11	1425	SOIL	NONE	2-Encores										X									
SL-122-SA6-SB-0.0-0.5	7/29/11	1430	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-123-SA6-SB-4.5	7/29/11	0935	SOIL	NONE	2-Encores										X										
SL-123-SA6-SB-4.0-5.0	7/29/11	0940	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-123-SA6-SB-7.5	7/29/11	0945	SOIL	NONE	2-Encores										X										
SL-123-SA6-SB-7.0-8.0	7/29/11	0950	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-125-SA6-SB-4.5MS	7/29/11	0750	SOIL	NONE	6-Encores										X										MS/MSD
SL-125-SA6-SB-4.0-5.0MS	7/29/11	0755	SOIL	NONE	9-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	MS/MSD
SL-125-SA6-SB-20.5	7/29/11	0810	SOIL	NONE	2-Encores										X										
SL-125-SA6-SB-20.0-21.0	7/29/11	0815	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-126-SA6-SB-4.5	7/29/11	1130	SOIL	NONE	2-Encores										X										
SL-126-SA6-SB-4.0-5.0	7/29/11	1135	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-126-SA6-SB-9.5	7/29/11	1140	SOIL	NONE	2-Encores										X										
SL-126-SA6-SB-9.0-10.0	7/29/11	1145	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
DUP10-SA6-QC-072911	7/29/11	0800	SOIL	NONE	2-Encores										X										
DUP10-SA6-QC-072911	7/29/11	0800	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
TB-072911	7/29/11	0800	WATER	NONE	2-40mL Vials										X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	07/29/2011 / 1600	1130	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		9754 3341 0244,0255	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 22, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/30/2011
Group Number: 1259105
SDG: DX121
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-180-SA5DN-SB-4.0-5.0 Soil	6360515
SL-180-SA5DN-SB-9.0-10.0 Soil	6360516
SL-174-SA5DN-SB-4.0-5.0 Soil	6360517
SL-174-SA5DN-SB-9.0-10.0 Soil	6360518
SL-122-SA6-SB-0.0-0.5 Soil	6360519
SL-123-SA6-SB-4.0-5.0 Soil	6360520
SL-123-SA6-SB-7.0-8.0 Soil	6360521

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-180-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5DN-SB-4.0-5.0

LLI Sample # SW 6360515
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:10

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2111 SDG#: DX121-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-180-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5DN-SB-4.0-5.0

LLI Sample # SW 6360515
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:10

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2111 SDG#: DX121-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0169 JQ	0.0111	1.12	1
11031	12378-PeCDD	40321-76-4	0.0129 JB	0.0107	5.59	1
11031	123478-HxCDD	39227-28-6	0.0116 JQ	0.0107	5.59	1
11031	123678-HxCDD	57653-85-7	0.0392 JBQ	0.0109	5.59	1
11031	123789-HxCDD	19408-74-3	0.0363 JBQ	0.0104	5.59	1
11031	1234678-HpCDD	35822-46-9	0.728 JB	0.0128	5.59	1
11031	OCDD	3268-87-9	4.51 JB	0.0122	11.2	1
11031	2378-TCDF	51207-31-9	0.0126 J	0.0121	1.12	1
11031	12378-PeCDF	57117-41-6	0.0282 JBQ	0.00650	5.59	1
11031	23478-PeCDF	57117-31-4	0.0404 JB	0.00775	5.59	1
11031	123478-HxCDF	70648-26-9	0.0267 JB	0.00810	5.59	1
11031	123678-HxCDF	57117-44-9	0.0165 JBQ	0.00570	5.59	1
11031	123789-HxCDF	72918-21-9	0.0335 JBQ	0.0104	5.59	1
11031	234678-HxCDF	60851-34-5	0.0205 JBQ	0.00673	5.59	1
11031	1234678-HpCDF	67562-39-4	0.109 JB	0.00627	5.59	1
11031	1234789-HpCDF	55673-89-7	0.0568 JBQ	0.0187	5.59	1
11031	OCDF	39001-02-0	0.271 JBQ	0.0273	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	50	29 - 147
13C12-1234678-HpCDF	121	28 - 143
13C12-1234789-HpCDF	43	26 - 138
13C12-OCDF	34	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-180-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5DN-SB-4.0-5.0

LLI Sample # SW 6360515
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:10

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2111 SDG#: DX121-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-180-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5DN-SB-4.0-5.0

LLI Sample # SW 6360515
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:10

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2111 SDG#: DX121-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11223001	08/16/2011 19:19	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11223001	08/11/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-180-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5DN-SB-9.0-10.0

LLI Sample # SW 6360516
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:12

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2112 SDG#: DX121-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-180-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5DN-SB-9.0-10.0

LLI Sample # SW 6360516
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:12

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2112 SDG#: DX121-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0157 J	0.0109	1.17	1
11031	12378-PeCDD	40321-76-4	0.0413 JBQ	0.0109	5.87	1
11031	123478-HxCDD	39227-28-6	0.0402 J	0.0165	5.87	1
11031	123678-HxCDD	57653-85-7	0.124 JB	0.0168	5.87	1
11031	123789-HxCDD	19408-74-3	0.0977 JB	0.0162	5.87	1
11031	1234678-HpCDD	35822-46-9	2.57 JB	0.0152	5.87	1
11031	OCDD	3268-87-9	18.1 B	0.0119	11.7	1
11031	2378-TCDF	51207-31-9	0.0171 JQ	0.0125	1.17	1
11031	12378-PeCDF	57117-41-6	0.0257 JBQ	0.00599	5.87	1
11031	23478-PeCDF	57117-31-4	0.0428 JBQ	0.00778	5.87	1
11031	123478-HxCDF	70648-26-9	0.0292 JB	0.0103	5.87	1
11031	123678-HxCDF	57117-44-9	0.0321 JB	0.00766	5.87	1
11031	123789-HxCDF	72918-21-9	0.0311 JBQ	0.0134	5.87	1
11031	234678-HxCDF	60851-34-5	0.0407 JB	0.00910	5.87	1
11031	1234678-HpCDF	67562-39-4	0.293 JB	0.00563	5.87	1
11031	1234789-HpCDF	55673-89-7	0.0751 JB	0.0171	5.87	1
11031	OCDF	39001-02-0	0.623 JB	0.0284	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	49	29 - 147
13C12-1234678-HpCDF	118	28 - 143
13C12-1234789-HpCDF	44	26 - 138
13C12-OCDF	36	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-180-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA5DN-SB-9.0-10.0

LLI Sample # SW 6360516
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:12

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2112 SDG#: DX121-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-180-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5DN-SB-9.0-10.0

LLI Sample # SW 6360516
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:12

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2112 SDG#: DX121-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11223001	08/16/2011 20:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11223001	08/11/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-174-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5DN-SB-4.0-5.0

LLI Sample # SW 6360517
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:49

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2113 SDG#: DX121-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-174-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5DN-SB-4.0-5.0

LLI Sample # SW 6360517
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:49

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2113 SDG#: DX121-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0361 J	0.0129	1.13	1
11031	12378-PeCDD	40321-76-4	0.0511 JBQ	0.0162	5.65	1
11031	123478-HxCDD	39227-28-6	0.0561 J	0.0217	5.65	1
11031	123678-HxCDD	57653-85-7	0.230 JB	0.0219	5.65	1
11031	123789-HxCDD	19408-74-3	0.127 JB	0.0204	5.65	1
11031	1234678-HpCDD	35822-46-9	5.57 JB	0.0246	5.65	1
11031	OCDD	3268-87-9	50.9 B	0.0153	11.3	1
11031	2378-TCDF	51207-31-9	0.0177 U	0.0177	1.13	1
11031	12378-PeCDF	57117-41-6	0.0582 JB	0.00851	5.65	1
11031	23478-PeCDF	57117-31-4	0.0605 JBQ	0.0112	5.65	1
11031	123478-HxCDF	70648-26-9	0.0892 JBQ	0.0177	5.65	1
11031	123678-HxCDF	57117-44-9	0.0649 JBQ	0.0132	5.65	1
11031	123789-HxCDF	72918-21-9	0.0448 JB	0.0192	5.65	1
11031	234678-HxCDF	60851-34-5	0.0793 JBQ	0.0159	5.65	1
11031	1234678-HpCDF	67562-39-4	0.873 JB	0.00804	5.65	1
11031	1234789-HpCDF	55673-89-7	0.114 JB	0.0212	5.65	1
11031	OCDF	39001-02-0	1.93 JB	0.0216	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	107	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	118	28 - 143
13C12-1234789-HpCDF	51	26 - 138
13C12-OCDF	45	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-174-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-174-SA5DN-SB-4.0-5.0

LLI Sample # SW 6360517
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:49

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2113 SDG#: DX121-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-174-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5DN-SB-4.0-5.0

LLI Sample # SW 6360517
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:49

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2113 SDG#: DX121-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11223001	08/16/2011 21:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11223001	08/11/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-174-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5DN-SB-9.0-10.0

LLI Sample # SW 6360518
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:51

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2114 SDG#: DX121-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-174-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5DN-SB-9.0-10.0

LLI Sample # SW 6360518
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:51

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2114 SDG#: DX121-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0512	JQ	0.0106	1.14	1
11031	12378-PeCDD	40321-76-4	0.0634	JB	0.0145	5.68	1
11031	123478-HxCDD	39227-28-6	0.0715	JQ	0.0228	5.68	1
11031	123678-HxCDD	57653-85-7	0.296	JB	0.0231	5.68	1
11031	123789-HxCDD	19408-74-3	0.144	JB	0.0215	5.68	1
11031	1234678-HpCDD	35822-46-9	6.46	B	0.0216	5.68	1
11031	OCDD	3268-87-9	60.7	B	0.0137	11.4	1
11031	2378-TCDF	51207-31-9	0.0336	JQ	0.0139	1.14	1
11031	12378-PeCDF	57117-41-6	0.0845	JBQ	0.00875	5.68	1
11031	23478-PeCDF	57117-31-4	0.0924	JB	0.00990	5.68	1
11031	123478-HxCDF	70648-26-9	0.101	JB	0.0158	5.68	1
11031	123678-HxCDF	57117-44-9	0.0851	JB	0.0125	5.68	1
11031	123789-HxCDF	72918-21-9	0.0490	JB	0.0180	5.68	1
11031	234678-HxCDF	60851-34-5	0.103	JB	0.0145	5.68	1
11031	1234678-HpCDF	67562-39-4	0.989	JB	0.00575	5.68	1
11031	1234789-HpCDF	55673-89-7	0.142	JB	0.0147	5.68	1
11031	OCDF	39001-02-0	2.06	JB	0.0168	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	114	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	45	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-174-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-174-SA5DN-SB-9.0-10.0

LLI Sample # SW 6360518
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:51

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2114 SDG#: DX121-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-174-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5DN-SB-9.0-10.0

LLI Sample # SW 6360518
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:51

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2114 SDG#: DX121-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11223001	08/16/2011 22:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11223001	08/11/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-122-SA6-SB-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA6-SB-0.0-0.5

LLI Sample # SW 6360519
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:30

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2115 SDG#: DX121-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.65	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-122-SA6-SB-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA6-SB-0.0-0.5

LLI Sample # SW 6360519
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:30

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2115 SDG#: DX121-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0680	J	0.0112	0.983	1
11031	12378-PeCDD	40321-76-4	0.188	JB	0.0252	4.91	1
11031	123478-HxCDD	39227-28-6	0.234	J	0.0232	4.91	1
11031	123678-HxCDD	57653-85-7	0.650	JB	0.0239	4.91	1
11031	123789-HxCDD	19408-74-3	0.403	JB	0.0214	4.91	1
11031	1234678-HpCDD	35822-46-9	21.7	B	0.0285	4.91	1
11031	OCDD	3268-87-9	196	B	0.0242	9.83	1
11031	2378-TCDF	51207-31-9	2.76	C	0.151	0.983	1
11031	12378-PeCDF	57117-41-6	1.37	JB	0.0476	4.91	1
11031	23478-PeCDF	57117-31-4	2.60	JB	0.0545	4.91	1
11031	123478-HxCDF	70648-26-9	4.33	JB	0.0402	4.91	1
11031	123678-HxCDF	57117-44-9	1.48	JB	0.0335	4.91	1
11031	123789-HxCDF	72918-21-9	0.838	JB	0.0420	4.91	1
11031	234678-HxCDF	60851-34-5	1.38	JB	0.0378	4.91	1
11031	1234678-HpCDF	67562-39-4	10.1	B	0.0124	4.91	1
11031	1234789-HpCDF	55673-89-7	1.57	JB	0.0248	4.91	1
11031	OCDF	39001-02-0	23.0	B	0.0147	9.83	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	94	25 - 164
13C12-12378-PeCDD	101	25 - 181
13C12-123478-HxCDD	99	32 - 141
13C12-123678-HxCDD	95	28 - 130
13C12-123789-HxCDD	99	28 - 130
13C12-1234678-HpCDD	104	23 - 140
13C12-OCDD	105	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	104	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	93	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	127	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	69	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-122-SA6-SB-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA6-SB-0.0-0.5

LLI Sample # SW 6360519
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:30

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2115 SDG#: DX121-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-122-SA6-SB-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA6-SB-0.0-0.5

LLI Sample # SW 6360519
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 14:30

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2115 SDG#: DX121-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11223001	08/16/2011 23:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11223001	08/11/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-123-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA6-SB-4.0-5.0

LLI Sample # SW 6360520
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:40

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2116 SDG#: DX121-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-123-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA6-SB-4.0-5.0

LLI Sample # SW 6360520
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:40

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2116 SDG#: DX121-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.323	J	0.0128	1.06	1
11031	12378-PeCDD	40321-76-4	0.653	JB	0.0350	5.31	1
11031	123478-HxCDD	39227-28-6	3.30	J	0.0377	5.31	1
11031	123678-HxCDD	57653-85-7	7.47	B	0.0374	5.31	1
11031	123789-HxCDD	19408-74-3	2.31	JB	0.0360	5.31	1
11031	1234678-HpCDD	35822-46-9	327	B	0.0935	5.31	1
11031	OCDD	3268-87-9	6,810	EB	0.0556	10.6	1
11031	2378-TCDF	51207-31-9	0.277	J	0.0607	1.06	1
11031	12378-PeCDF	57117-41-6	0.459	JB	0.0253	5.31	1
11031	23478-PeCDF	57117-31-4	0.487	JB	0.0278	5.31	1
11031	123478-HxCDF	70648-26-9	1.22	JB	0.0403	5.31	1
11031	123678-HxCDF	57117-44-9	1.30	JB	0.0336	5.31	1
11031	123789-HxCDF	72918-21-9	0.521	JB	0.0384	5.31	1
11031	234678-HxCDF	60851-34-5	1.77	JB	0.0357	5.31	1
11031	1234678-HpCDF	67562-39-4	33.2	B	0.0230	5.31	1
11031	1234789-HpCDF	55673-89-7	3.86	JB	0.0388	5.31	1
11031	OCDF	39001-02-0	97.1	B	0.0181	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	109	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-123-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA6-SB-4.0-5.0

LLI Sample # SW 6360520
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:40

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2116 SDG#: DX121-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-123-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA6-SB-4.0-5.0

LLI Sample # SW 6360520
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:40

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2116 SDG#: DX121-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11223001	08/17/2011 03:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11223001	08/11/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-123-SA6-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA6-SB-7.0-8.0

LLI Sample # SW 6360521
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:50

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2117 SDG#: DX121-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-123-SA6-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA6-SB-7.0-8.0

LLI Sample # SW 6360521
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:50

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2117 SDG#: DX121-17*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.167	J	0.0124	1.09	1
11031	12378-PeCDD	40321-76-4	0.470	JB	0.0372	5.44	1
11031	123478-HxCDD	39227-28-6	1.55	J	0.0336	5.44	1
11031	123678-HxCDD	57653-85-7	8.89	B	0.0343	5.44	1
11031	123789-HxCDD	19408-74-3	3.68	JB	0.0341	5.44	1
11031	1234678-HpCDD	35822-46-9	339	B	0.0666	5.44	1
11031	OCDD	3268-87-9	2,780	B	0.0481	10.9	1
11031	2378-TCDF	51207-31-9	1.02	J	0.0487	1.09	1
11031	12378-PeCDF	57117-41-6	0.748	JB	0.0295	5.44	1
11031	23478-PeCDF	57117-31-4	1.29	JB	0.0289	5.44	1
11031	123478-HxCDF	70648-26-9	2.09	JB	0.0388	5.44	1
11031	123678-HxCDF	57117-44-9	1.13	JB	0.0362	5.44	1
11031	123789-HxCDF	72918-21-9	0.541	JB	0.0358	5.44	1
11031	234678-HxCDF	60851-34-5	1.54	JB	0.0326	5.44	1
11031	1234678-HpCDF	67562-39-4	18.8	B	0.0279	5.44	1
11031	1234789-HpCDF	55673-89-7	2.36	JB	0.0323	5.44	1
11031	OCDF	39001-02-0	52.2	B	0.0178	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-123-SA6-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA6-SB-7.0-8.0

LLI Sample # SW 6360521
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:50

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2117 SDG#: DX121-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-123-SA6-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA6-SB-7.0-8.0

LLI Sample # SW 6360521
LLI Group # 1259105
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 09:50

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 12:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2117 SDG#: DX121-17*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11223001	08/17/2011 04:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11223001	08/11/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259105
Reported: 08/22/11 at 12:56 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11217162401B	Sample number(s): 6360515-6360521								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11223001	Sample number(s): 6360515-6360521								
2378-TCDD	0.0111 U	0.0111	1.00	ng/kg	100		67-158		
12378-PeCDD	0.0239 J	0.0105	5.00	ng/kg	107		70-142		
123478-HxCDD	0.00970 U	0.00970	5.00	ng/kg	110		70-164		
123678-HxCDD	0.0237 J	0.0101	5.00	ng/kg	106		76-134		
123789-HxCDD	0.0270 J	0.00940	5.00	ng/kg	108		64-162		
1234678-HpCDD	0.353 J	0.0140	5.00	ng/kg	103		70-140		
OCDD	0.751 J	0.0154	10.0	ng/kg	104		78-144		
2378-TCDF	0.0122 U	0.0122	1.00	ng/kg	118		75-158		
12378-PeCDF	0.0220 J	0.00710	5.00	ng/kg	110		80-134		
23478-PeCDF	0.0422 J	0.00760	5.00	ng/kg	111		68-160		
123478-HxCDF	0.0198 J	0.00630	5.00	ng/kg	105		72-134		
123678-HxCDF	0.0114 J	0.00490	5.00	ng/kg	111		84-130		
123789-HxCDF	0.0321 J	0.00810	5.00	ng/kg	104		78-130		
234678-HxCDF	0.0231 J	0.00590	5.00	ng/kg	114		70-156		
1234678-HpCDF	0.0526 J	0.00400	5.00	ng/kg	102		82-122		
1234789-HpCDF	0.0314 J	0.00830	5.00	ng/kg	107		78-138		
OCDF	0.168 J	0.0193	10.0	ng/kg	106		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11217162401B	Sample number(s): 6360515-6360521 BKG: P360506								
Moisture Content by 160.3						8.6	7.6	12	20
Batch number: 11223001	Sample number(s): 6360515-6360521 UNSPK: P359582								
2378-TCDD	102	101	67-158	2	25				
12378-PeCDD	107	109	70-142	0	25				
123478-HxCDD	110	112	70-164	0	25				
123678-HxCDD	110	109	76-134	3	25				
123789-HxCDD	107	109	64-162	0	25				
1234678-HpCDD	104	108	70-140	2	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259105
Reported: 08/22/11 at 12:56 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
OCDD	108	111	78-144	1	25				
2378-TCDF	115	114	75-158	3	25				
12378-PeCDF	112	113	80-134	1	25				
23478-PeCDF	113	110	68-160	4	25				
123478-HxCDF	113	110	72-134	4	25				
123678-HxCDF	111	106	84-130	6	25				
123789-HxCDF	111	107	78-130	5	25				
234678-HxCDF	112	114	70-156	0	25				
1234678-HpCDF	109	113	82-122	2	25				
1234789-HpCDF	109	110	78-138	1	25				
OCDF	109	113	63-170	3	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11223001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6360515	71	73	61	85	69	50
6360516	73	69	60	80	64	49
6360517	75	81	63	81	66	57
6360518	73	75	64	80	67	62
6360519	94	88	79	93	81	81
6360520	87	83	72	82	76	75
6360521	75	79	70	71	77	75
Blank	79	74	78	97	79	65
MS	68	67	73	92	76	63
MSD	68	68	72	95	78	72
OPR	73	69	72	85	71	69
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6360515	121	43	34	87	85	86
6360516	118	44	36	84	82	84
6360517	118	51	45	94	84	82
6360518	114	52	45	86	81	79
6360519	127	70	69	101	99	95
6360520	101	67	70	93	87	88
6360521	74	72	66	76	79	78
Blank	108	59	56	85	87	85
MS	108	57	62	71	79	75
MSD	121	55	51	69	79	77
OPR	129	51	47	78	82	83
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259105
Reported: 08/22/11 at 12:56 PM

Surrogate Quality Control

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6360515	86	91	92	64	95
6360516	84	89	89	60	93
6360517	85	89	91	68	107
6360518	80	86	84	66	92
6360519	99	104	105	82	104
6360520	92	93	109	83	94
6360521	80	79	74	76	80
Blank	87	80	85	68	85
MS	78	79	88	62	87
MSD	80	77	83	66	87
OPR	84	83	80	63	86
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1259105 sample# 6360515-21

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								Other instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	
Samplers Signatures:														
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers									
SL-180-SA5DN-SB-4.0-5.0	7/29/11	0910	SOIL	NONE	2- 16 oz Jars	X	X	X	X	X	X	X	X	
SL-180-SA5DN-SB-9.0-10.0	7/29/11	0912	SOIL	NONE	2- 16 oz Jars	X	X	X	X	X	X	X	X	
SL-174-SA5DN-SB-4.0-5.0	7/29/11	1449	SOIL	NONE	2- 16 oz Jars	X	X	X	X	X	X	X	X	
SL-174-SA5DN-SB-9.0-10.0	7/29/11	1451	SOIL	NONE	2- 16 oz Jars	X	X	X	X	X	X	X	X	
Relinquished by: (*Signature*)	Date/Time 07/29/2011 / 1600	Received for Laboratory by: (*Signature*) LCS 7/30/11 0930												Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No(s) 9754 3341 0244,0255												

acct#13013 Grp# 1359105 Sample# 6360515-21

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-122-SA6-SB-0.5	7/29/11	1425	SOIL	NONE	2-Encores										X										
SL-122-SA6-SB-0.0-0.5	7/29/11	1430	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-123-SA6-SB-4.5	7/29/11	0935	SOIL	NONE	2-Encores										X										
SL-123-SA6-SB-4.0-5.0	7/29/11	0940	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-123-SA6-SB-7.5	7/29/11	0945	SOIL	NONE	2-Encores										X										
SL-123-SA6-SB-7.0-8.0	7/29/11	0950	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-125-SA6-SB-4.5MS	7/29/11	0750	SOIL	NONE	6-Encores										X										MS/MSD
SL-125-SA6-SB-4.0-5.0MS	7/29/11	0755	SOIL	NONE	9-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	MS/MSD
SL-125-SA6-SB-20.5	7/29/11	0810	SOIL	NONE	2-Encores										X										
SL-125-SA6-SB-20.0-21.0	7/29/11	0815	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-126-SA6-SB-4.5	7/29/11	1130	SOIL	NONE	2-Encores										X										
SL-126-SA6-SB-4.0-5.0	7/29/11	1135	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-126-SA6-SB-9.5	7/29/11	1140	SOIL	NONE	2-Encores										X										
SL-126-SA6-SB-9.0-10.0	7/29/11	1145	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
DUP10-SA6-QC-072911	7/29/11	0800	SOIL	NONE	2-Encores										X										
DUP10-SA6-QC-072911	7/29/11	0800	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
TB-072911	7/29/11	0800	WATER	NONE	2-40mL Vials										X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	07/29/2011 / 1600	LW 7/30/11 930	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		9754 3341 0244,0255	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 22, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 07/30/2011
Group Number: 1259106
SDG: DX122
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-125-SA6-SB-4.0-5.0 Soil	6360522
SL-125-SA6-SB-4.0-5.0MS Soil	6360523
SL-125-SA6-SB-4.0-5.0MSD Soil	6360524
SL-125-SA6-SB-20.0-21.0 Soil	6360525
SL-126-SA6-SB-4.0-5.0 Soil	6360526
SL-126-SA6-SB-9.0-10.0 Soil	6360527
DUP10-SA6-QC-072911 Soil	6360528

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-125-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360522
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2201 SDG#: DX122-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-125-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360522
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2201 SDG#: DX122-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0169 JQ	0.0103	1.09	1
11031	12378-PeCDD	40321-76-4	0.0673 JBQ	0.0119	5.47	1
11031	123478-HxCDD	39227-28-6	0.0819 JBQ	0.0277	5.47	1
11031	123678-HxCDD	57653-85-7	0.220 JB	0.0277	5.47	1
11031	123789-HxCDD	19408-74-3	0.136 JB	0.0249	5.47	1
11031	1234678-HpCDD	35822-46-9	12.2 B	0.0324	5.47	1
11031	OCDD	3268-87-9	117 B	0.0333	10.9	1
11031	2378-TCDF	51207-31-9	0.0248 JBQ	0.0151	1.09	1
11031	12378-PeCDF	57117-41-6	0.0808 JB	0.0123	5.47	1
11031	23478-PeCDF	57117-31-4	0.112 JB	0.0118	5.47	1
11031	123478-HxCDF	70648-26-9	0.151 JBQ	0.0240	5.47	1
11031	123678-HxCDF	57117-44-9	0.0740 JB	0.0228	5.47	1
11031	123789-HxCDF	72918-21-9	0.104 JB	0.0197	5.47	1
11031	234678-HxCDF	60851-34-5	0.113 JB	0.0189	5.47	1
11031	1234678-HpCDF	67562-39-4	0.791 JB	0.0201	5.47	1
11031	1234789-HpCDF	55673-89-7	0.125 JB	0.0222	5.47	1
11031	OCDF	39001-02-0	2.01 JB	0.0196	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360522
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2201 SDG#: DX122-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-125-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360522
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2201 SDG#: DX122-01BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11227001	08/19/2011 06:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11227001	08/15/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA6-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360523
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2201 SDG#: DX122-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-125-SA6-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360523
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2201 SDG#: DX122-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.2		0.0323	1.09	1
11031	12378-PeCDD	40321-76-4	148	B	0.0410	5.46	1
11031	123478-HxCDD	39227-28-6	106	B	0.0391	5.46	1
11031	123678-HxCDD	57653-85-7	103	B	0.0398	5.46	1
11031	123789-HxCDD	19408-74-3	101	B	0.0376	5.46	1
11031	1234678-HpCDD	35822-46-9	177	B	0.0991	5.46	1
11031	OCDD	3268-87-9	461	B	0.0315	10.9	1
11031	2378-TCDF	51207-31-9	26.1	B	0.0681	1.09	1
11031	12378-PeCDF	57117-41-6	110	B	0.0349	5.46	1
11031	23478-PeCDF	57117-31-4	106	B	0.0329	5.46	1
11031	123478-HxCDF	70648-26-9	109	B	0.0659	5.46	1
11031	123678-HxCDF	57117-44-9	106	B	0.0604	5.46	1
11031	123789-HxCDF	72918-21-9	106	B	0.0648	5.46	1
11031	234678-HxCDF	60851-34-5	103	B	0.0558	5.46	1
11031	1234678-HpCDF	67562-39-4	106	B	0.0376	5.46	1
11031	1234789-HpCDF	55673-89-7	101	B	0.0631	5.46	1
11031	OCDF	39001-02-0	208	B	0.0381	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	92	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	94	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	111	24 - 185
13C12-23478-PeCDF	112	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	72	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA6-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360523
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2201 SDG#: DX122-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA6-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360523
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2201 SDG#: DX122-01MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11227001	08/17/2011 21:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11227001	08/15/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA6-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360524
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2201 SDG#: DX122-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-125-SA6-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360524
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2201 SDG#: DX122-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.6		0.0382	1.09	1
11031	12378-PeCDD	40321-76-4	98.8	B	0.0340	5.45	1
11031	123478-HxCDD	39227-28-6	104	B	0.0503	5.45	1
11031	123678-HxCDD	57653-85-7	117	B	0.0595	5.45	1
11031	123789-HxCDD	19408-74-3	101	B	0.0473	5.45	1
11031	1234678-HpCDD	35822-46-9	112	B	0.0588	5.45	1
11031	OCDD	3268-87-9	320	B	0.0329	10.9	1
11031	2378-TCDF	51207-31-9	21.0	B	0.0643	1.09	1
11031	12378-PeCDF	57117-41-6	100	B	0.0292	5.45	1
11031	23478-PeCDF	57117-31-4	106	B	0.0402	5.45	1
11031	123478-HxCDF	70648-26-9	105	B	0.0536	5.45	1
11031	123678-HxCDF	57117-44-9	106	B	0.0514	5.45	1
11031	123789-HxCDF	72918-21-9	104	B	0.0515	5.45	1
11031	234678-HxCDF	60851-34-5	104	B	0.0526	5.45	1
11031	1234678-HpCDF	67562-39-4	103	B	0.0456	5.45	1
11031	1234789-HpCDF	55673-89-7	104	B	0.0556	5.45	1
11031	OCDF	39001-02-0	209	B	0.0383	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	120	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	120	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA6-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360524
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2201 SDG#: DX122-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA6-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-4.0-5.0

LLI Sample # SW 6360524
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 07:55

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2201 SDG#: DX122-01MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11227001	08/17/2011 22:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11227001	08/15/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

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Analysis Report

Sample Description: SL-125-SA6-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-20.0-21.0

LLI Sample # SW 6360525
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 08:15

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2202 SDG#: DX122-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-125-SA6-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-20.0-21.0

LLI Sample # SW 6360525
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 08:15

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2202 SDG#: DX122-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0223	U	0.0223	1.12	1
11031	12378-PeCDD	40321-76-4	0.118	JB	0.0245	5.60	1
11031	123478-HxCDD	39227-28-6	0.168	JB	0.0453	5.60	1
11031	123678-HxCDD	57653-85-7	0.574	JB	0.0467	5.60	1
11031	123789-HxCDD	19408-74-3	0.321	JBQ	0.0440	5.60	1
11031	1234678-HpCDD	35822-46-9	20.6	B	0.0566	5.60	1
11031	OCDD	3268-87-9	254	B	0.0346	11.2	1
11031	2378-TCDF	51207-31-9	0.520	JB	0.0979	1.12	1
11031	12378-PeCDF	57117-41-6	0.978	JB	0.0428	5.60	1
11031	23478-PeCDF	57117-31-4	0.245	JB	0.0405	5.60	1
11031	123478-HxCDF	70648-26-9	0.760	JB	0.0434	5.60	1
11031	123678-HxCDF	57117-44-9	0.306	JB	0.0411	5.60	1
11031	123789-HxCDF	72918-21-9	0.183	JB	0.0421	5.60	1
11031	234678-HxCDF	60851-34-5	0.466	JB	0.0395	5.60	1
11031	1234678-HpCDF	67562-39-4	3.06	JB	0.0315	5.60	1
11031	1234789-HpCDF	55673-89-7	0.449	JB	0.0351	5.60	1
11031	OCDF	39001-02-0	5.60	JB	0.0343	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	106	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	92	24 - 169
13C12-12378-PeCDF	100	24 - 185
13C12-23478-PeCDF	97	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA6-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-20.0-21.0

LLI Sample # SW 6360525
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 08:15

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2202 SDG#: DX122-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA6-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA6-SB-20.0-21.0

LLI Sample # SW 6360525
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 08:15

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2202 SDG#: DX122-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11227001	08/17/2011 23:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11227001	08/15/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SB-4.0-5.0

LLI Sample # SW 6360526
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 11:35

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2203 SDG#: DX122-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SB-4.0-5.0

LLI Sample # SW 6360526
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 11:35

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2203 SDG#: DX122-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0431 JQ	0.0249	1.05	1
11031	12378-PeCDD	40321-76-4	0.0454 JBQ	0.0178	5.26	1
11031	123478-HxCDD	39227-28-6	0.0317 JBQ	0.0138	5.26	1
11031	123678-HxCDD	57653-85-7	0.0495 JB	0.0141	5.26	1
11031	123789-HxCDD	19408-74-3	0.0521 JBQ	0.0141	5.26	1
11031	1234678-HpCDD	35822-46-9	0.361 JB	0.0218	5.26	1
11031	OCDD	3268-87-9	0.935 JB	0.0236	10.5	1
11031	2378-TCDF	51207-31-9	0.0209 U	0.0209	1.05	1
11031	12378-PeCDF	57117-41-6	0.0585 JB	0.0127	5.26	1
11031	23478-PeCDF	57117-31-4	0.0514 JBQ	0.0122	5.26	1
11031	123478-HxCDF	70648-26-9	0.0611 JBQ	0.0108	5.26	1
11031	123678-HxCDF	57117-44-9	0.0322 JB	0.00969	5.26	1
11031	123789-HxCDF	72918-21-9	0.0447 JBQ	0.0119	5.26	1
11031	234678-HxCDF	60851-34-5	0.0339 JBQ	0.0100	5.26	1
11031	1234678-HpCDF	67562-39-4	0.0826 JBQ	0.0116	5.26	1
11031	1234789-HpCDF	55673-89-7	0.172 JBQ	0.0178	5.26	1
11031	OCDF	39001-02-0	0.153 JBQ	0.0275	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	124	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	117	24 - 185
13C12-23478-PeCDF	111	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	65	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SB-4.0-5.0

LLI Sample # SW 6360526
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 11:35

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2203 SDG#: DX122-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SB-4.0-5.0

LLI Sample # SW 6360526
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 11:35

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2203 SDG#: DX122-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11227001	08/18/2011 00:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11227001	08/15/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SB-9.0-10.0

LLI Sample # SW 6360527
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 11:45

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2204 SDG#: DX122-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SB-9.0-10.0

LLI Sample # SW 6360527
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 11:45

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2204 SDG#: DX122-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0250 JQ	0.0227	1.09	1
11031	12378-PeCDD	40321-76-4	0.0461 JB	0.0220	5.46	1
11031	123478-HxCDD	39227-28-6	0.0976 JBQ	0.0172	5.46	1
11031	123678-HxCDD	57653-85-7	0.0682 JBQ	0.0174	5.46	1
11031	123789-HxCDD	19408-74-3	0.0284 JBQ	0.0148	5.46	1
11031	1234678-HpCDD	35822-46-9	0.330 JBQ	0.0219	5.46	1
11031	OCDD	3268-87-9	0.918 JB	0.0254	10.9	1
11031	2378-TCDF	51207-31-9	0.0460 JBQ	0.0244	1.09	1
11031	12378-PeCDF	57117-41-6	0.0404 JBQ	0.0179	5.46	1
11031	23478-PeCDF	57117-31-4	0.0627 JBQ	0.0173	5.46	1
11031	123478-HxCDF	70648-26-9	0.0460 JBQ	0.0120	5.46	1
11031	123678-HxCDF	57117-44-9	0.0311 JBQ	0.0106	5.46	1
11031	123789-HxCDF	72918-21-9	0.0647 JB	0.0118	5.46	1
11031	234678-HxCDF	60851-34-5	0.0366 JB	0.0101	5.46	1
11031	1234678-HpCDF	67562-39-4	0.0741 JB	0.0108	5.46	1
11031	1234789-HpCDF	55673-89-7	0.0732 JBQ	0.0159	5.46	1
11031	OCDF	39001-02-0	0.155 JBQ	0.0288	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	51	24 - 169
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	57	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-126-SA6-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SB-9.0-10.0

LLI Sample # SW 6360527
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 11:45

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2204 SDG#: DX122-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA6-SB-9.0-10.0

LLI Sample # SW 6360527
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 11:45

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2204 SDG#: DX122-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11227001	08/18/2011 01:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11227001	08/15/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP10-SA6-QC-072911 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA6-QC-072911

LLI Sample # SW 6360528
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 08:00

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2205 SDG#: DX122-05FD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP10-SA6-QC-072911 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA6-QC-072911

LLI Sample # SW 6360528
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 08:00

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2205 SDG#: DX122-05FD*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.113	J	0.0174	1.12	1
11031	12378-PeCDD	40321-76-4	0.197	JB	0.0352	5.59	1
11031	123478-HxCDD	39227-28-6	0.641	JB	0.0488	5.59	1
11031	123678-HxCDD	57653-85-7	2.24	JB	0.0478	5.59	1
11031	123789-HxCDD	19408-74-3	0.823	JB	0.0465	5.59	1
11031	1234678-HpCDD	35822-46-9	116	B	0.0969	5.59	1
11031	OCDD	3268-87-9	1,540	B	0.0555	11.2	1
11031	2378-TCDF	51207-31-9	0.754	JB	0.0809	1.12	1
11031	12378-PeCDF	57117-41-6	1.13	JB	0.0393	5.59	1
11031	23478-PeCDF	57117-31-4	0.357	JBQ	0.0448	5.59	1
11031	123478-HxCDF	70648-26-9	0.752	JB	0.0409	5.59	1
11031	123678-HxCDF	57117-44-9	0.412	JB	0.0378	5.59	1
11031	123789-HxCDF	72918-21-9	0.171	JB	0.0391	5.59	1
11031	234678-HxCDF	60851-34-5	0.594	JB	0.0350	5.59	1
11031	1234678-HpCDF	67562-39-4	8.48	B	0.0393	5.59	1
11031	1234789-HpCDF	55673-89-7	0.882	JB	0.0425	5.59	1
11031	OCDF	39001-02-0	23.2	B	0.0350	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP10-SA6-QC-072911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP10-SA6-QC-072911

LLI Sample # SW 6360528
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 08:00

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2205 SDG#: DX122-05FD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP10-SA6-QC-072911 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA6-QC-072911

LLI Sample # SW 6360528
LLI Group # 1259106
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 07/29/2011 08:00

Submitted: 07/30/2011 09:30
Reported: 08/22/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2205 SDG#: DX122-05FD*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11227001	08/18/2011 02:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11227001	08/15/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11217162401B	08/05/2011 18:47	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259106
Reported: 08/22/11 at 01:02 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11217162401B	Sample number(s): 6360522-6360528								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11227001	Sample number(s): 6360522-6360528								
2378-TCDD	0.0265 U	0.0265	1.00	ng/kg	108		67-158		
12378-PeCDD	0.0360 J	0.0142	5.00	ng/kg	101		70-142		
123478-HxCDD	0.0289 J	0.0122	5.00	ng/kg	102		70-164		
123678-HxCDD	0.0381 J	0.0127	5.00	ng/kg	98		76-134		
123789-HxCDD	0.0357 J	0.0123	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.350 J	0.0235	5.00	ng/kg	99		70-140		
OCDD	0.710 J	0.0280	10.0	ng/kg	99		78-144		
2378-TCDF	0.0326 J	0.0272	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0263 J	0.0130	5.00	ng/kg	99		80-134		
23478-PeCDF	0.0673 J	0.0128	5.00	ng/kg	98		68-160		
123478-HxCDF	0.0452 J	0.0135	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0344 J	0.0110	5.00	ng/kg	99		84-130		
123789-HxCDF	0.0602 J	0.0105	5.00	ng/kg	102		78-130		
234678-HxCDF	0.0392 J	0.00950	5.00	ng/kg	103		70-156		
1234678-HpCDF	0.0800 J	0.00780	5.00	ng/kg	98		82-122		
1234789-HpCDF	0.0569 J	0.0108	5.00	ng/kg	99		78-138		
OCDF	0.140 J	0.0308	10.0	ng/kg	100		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11217162401B	Sample number(s): 6360522-6360528 BKG: P360506								
Moisture Content by 160.3						8.6	7.6	12	20
Batch number: 11227001	Sample number(s): 6360522-6360528 UNSPK: 6360522								
2378-TCDD	97	95	67-158	2	25				
12378-PeCDD	135	91	70-142	40*	25				
123478-HxCDD	97	96	70-164	2	25				
123678-HxCDD	94	107	76-134	13	25				
123789-HxCDD	93	92	64-162	1	25				
1234678-HpCDD	151*	92	70-140	45*	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259106
Reported: 08/22/11 at 01:02 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
OCDD	157*	93	78-144	36*	25				
2378-TCDF	120	96	75-158	22	25				
12378-PeCDF	101	92	80-134	9	25				
23478-PeCDF	97	97	68-160	0	25				
123478-HxCDF	99	96	72-134	3	25				
123678-HxCDF	97	97	84-130	0	25				
123789-HxCDF	97	96	78-130	2	25				
234678-HxCDF	94	95	70-156	1	25				
1234678-HpCDF	96	94	82-122	3	25				
1234789-HpCDF	93	95	78-138	3	25				
OCDF	94	95	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11227001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6360522	76	72	55	56	69	69
6360523	82	112	68	81	81	77
6360524	81	87	72	73	73	76
6360525	75	97	62	64	63	67
6360526	75	111	68	74	69	63
6360527	62	62	57	63	66	60
6360528	81	64	65	67	71	67
Blank	74	101	55	69	75	74
MS	82	112	68	81	81	77
MSD	81	87	72	73	73	76
OPR	80	94	72	81	77	75
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6360522	66	65	61	81	81	78
6360523	91	64	72	89	92	92
6360524	75	71	73	120	84	72
6360525	68	67	61	106	76	75
6360526	89	67	65	124	85	85
6360527	82	61	57	70	72	71
6360528	65	68	64	79	80	82
Blank	87	69	50	117	90	88
MS	91	64	72	89	92	92
MSD	75	71	73	120	84	72
OPR	97	74	71	103	87	86
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259106
Reported: 08/22/11 at 01:02 PM

Surrogate Quality Control

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6360522	84	82	76	67	74
6360523	94	64	92	80	111
6360524	86	85	86	75	120
6360525	76	79	71	92	100
6360526	85	88	84	81	117
6360527	77	77	76	51	63
6360528	83	79	78	71	73
Blank	90	76	64	68	105
MS	94	64	92	80	111
MSD	86	85	86	75	120
OPR	89	92	90	81	97
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Grp#1259106 Sample# 6360522-28

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-122-SA6-SB-0.5	7/29/11	1425	SOIL	NONE	2-Encores										X										
SL-122-SA6-SB-0.0-0.5	7/29/11	1430	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-123-SA6-SB-4.5	7/29/11	0935	SOIL	NONE	2-Encores										X										
SL-123-SA6-SB-4.0-5.0	7/29/11	0940	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-123-SA6-SB-7.5	7/29/11	0945	SOIL	NONE	2-Encores										X										
SL-123-SA6-SB-7.0-8.0	7/29/11	0950	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-125-SA6-SB-4.5MS	7/29/11	0750	SOIL	NONE	6-Encores										X										MS/MSD
SL-125-SA6-SB-4.0-5.0MS	7/29/11	0755	SOIL	NONE	9-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	MS/MSD
SL-125-SA6-SB-20.5	7/29/11	0810	SOIL	NONE	2-Encores										X										
SL-125-SA6-SB-20.0-21.0	7/29/11	0815	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-126-SA6-SB-4.5	7/29/11	1130	SOIL	NONE	2-Encores										X										
SL-126-SA6-SB-4.0-5.0	7/29/11	1135	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
SL-126-SA6-SB-9.5	7/29/11	1140	SOIL	NONE	2-Encores										X										
SL-126-SA6-SB-9.0-10.0	7/29/11	1145	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
DUP10-SA6-QC-072911	7/29/11	0800	SOIL	NONE	2-Encores										X										
DUP10-SA6-QC-072911	7/29/11	0800	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
TB-072911	7/29/11	0800	WATER	NONE	2-40mL Vials										X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	07/29/2011 / 1600	LW 7/30/11 930	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		9754 3341 0244,0255	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

September 22, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 08/03/2011
Group Number: 1259584
SDG: DE214
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-160-SA5DN-SB-4.0-5.0 Soil	6363164
SL-162-SA5DN-SB-4.0-5.0 Soil	6363165
SL-162-SA5DN-SB-9.0-10.0 Soil	6363166
EB-SA6-SB-080211 Water	6363167
SL-128-SA6-SB-4.0-5.0 Soil	6363168
SL-128-SA6-SB-7.5-8.5 Soil	6363169
SL-145-SA6-SB-3.5-4.5 Soil	6363170
TB-080211 Water	6363171

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Chad A. Moline
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: SL-160-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5DN-SB-4.0-5.0

LLI Sample # SW 6363164
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 08:46

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16045 SDG#: DE214-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-160-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5DN-SB-4.0-5.0

LLI Sample # SW 6363164
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 08:46

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16045 SDG#: DE214-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,300		6.55	21.7		1
07914	Boron	7440-42-8	8.50		0.390	5.41		1
01650	Calcium	7440-70-2	4,750		2.71	21.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-160-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5DN-SB-4.0-5.0

LLI Sample # SW 6363164
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 08:46

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16045 SDG#: DE214-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	37,100	14.1	108		5
01656	Lithium	7439-93-2	40.6	0.67	2.2		1
01657	Magnesium	7439-95-4	7,670	0.476	10.8		1
06958	Manganese	7439-96-5	256	0.0390	0.541		1
10145	Phosphorus	7723-14-0	186	0.379	10.8		1
01662	Potassium	7440-09-7	2,800	12.2	54.1		1
01667	Sodium	7440-23-5	716	6.44	108		1
07968	Strontium	7440-24-6	32.1	0.0271	0.541		1
06969	Tin	7440-31-5	3.30 J	0.347	10.8		1
06970	Titanium	7440-32-6	1,420	0.0769	1.08		1
10146	Zirconium	7440-67-7	5.69	0.498	5.41		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.229	0.0809	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.0	0.0875	0.437		2
06126	Barium	7440-39-3	164	0.116	0.437		2
06127	Beryllium	7440-41-7	1.29	0.0175	0.109		2
06128	Cadmium	7440-43-9	0.0677 J	0.0481	0.109		2
06131	Chromium	7440-47-3	44.2	0.131	0.437		2
06132	Cobalt	7440-48-4	9.82	0.0219	0.109		2
06133	Copper	7440-50-8	17.2	0.0875	0.437		2
06135	Lead	7439-92-1	13.8	0.0112	0.219		2
06138	Molybdenum	7439-98-7	0.730	0.0547	0.109		2
06139	Nickel	7440-02-0	25.5	0.109	0.437		2
06141	Selenium	7782-49-2	0.180 J	0.0634	0.437		2
06142	Silver	7440-22-4	0.0931 J	0.0155	0.109		2
06145	Thallium	7440-28-0	0.420	0.0328	0.109		2
06148	Vanadium	7440-62-2	79.5	0.0241	0.109		2
06149	Zinc	7440-66-6	89.0	0.612	3.28		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073 U	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	12.8	0.91	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.66 J	0.23	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-160-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5DN-SB-4.0-5.0

LLI Sample # SW 6363164
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 08:46

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Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16045 SDG#: DE214-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.42	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11223SLD026	08/20/2011	07:03	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11221SLC026	08/18/2011	10:34	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11221SLC026	08/10/2011	06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11223SLD026	08/12/2011	06:15	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112270007A	08/17/2011	21:53	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112270007A	08/15/2011	16:15	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	112175708002	08/08/2011	17:04	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112175708002	08/12/2011	10:45	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112175708002	08/11/2011	16:35	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112175708002	08/11/2011	16:39	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	112175708002	08/08/2011	17:04	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112175708002	08/11/2011	16:35	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112175708002	08/08/2011	17:04	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112175708002	08/08/2011	17:04	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112175708002	08/11/2011	16:35	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112175708002	08/11/2011	16:35	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112175708002	08/08/2011	17:04	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112175708002	08/08/2011	17:04	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112175708002	08/08/2011	17:04	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112175708002	08/08/2011	17:04	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112171026001A	08/08/2011	10:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112171026001A	08/08/2011	10:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112171026001D	08/08/2011	10:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112171026001A	08/08/2011	10:47	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-160-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5DN-SB-4.0-5.0

LLI Sample # SW 6363164
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 08:46

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16045 SDG#: DE214-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112171026001A	08/08/2011 10:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112171026001A	08/08/2011 10:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112171026001A	08/08/2011 10:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112171026001A	08/08/2011 10:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112171026001A	08/08/2011 10:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112171026001C	08/08/2011 10:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112171026001A	08/08/2011 10:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112171026001B	08/08/2011 10:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112171026001A	08/08/2011 10:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112171026001A	08/08/2011 10:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112171026001A	08/08/2011 10:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112171026001A	08/08/2011 10:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112155711002	08/04/2011 11:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112175708002	08/06/2011 11:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112171026001	08/06/2011 11:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112155711002	08/04/2011 09:57	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11221621201A	08/09/2011 18:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11222284201A	08/15/2011 17:37	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11223243201A	08/17/2011 07:08	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11221621201A	08/09/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11222284201A	08/11/2011 15:45	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11216039404A	08/04/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11223243201A	08/11/2011 09:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401B	08/10/2011 22:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-162-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SB-4.0-5.0

LLI Sample # SW 6363165
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 14:00

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16245 SDG#: DE214-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-162-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SB-4.0-5.0

LLI Sample # SW 6363165
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 14:00

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16245 SDG#: DE214-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.2		0.74	1.9		1
10138	Acenaphthylene	208-96-8	2.9		0.37	1.9		1
10138	Anthracene	120-12-7	8.8		0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	7.8		0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	5.9		0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	7.1		0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	5.9		0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	6.2		0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	11	J	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	14	J	6.7	20		1
10138	Chrysene	218-01-9	8.5		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	5.7		0.74	1.9		1
10138	Diethylphthalate	84-66-2	12	J	6.7	20		1
10138	Dimethylphthalate	131-11-3	9.8	J	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	16	J	6.7	20		1
10138	Fluoranthene	206-44-0	10		0.74	1.9		1
10138	Fluorene	86-73-7	8.8		0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	5.9		0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	1.5	J	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	1.8	J	0.74	1.9		1
10138	Naphthalene	91-20-3	3.5		0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	2.1		0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.5	J	6.7	20		1
10138	Phenanthrene	85-01-8	14		0.74	1.9		1
10138	Pyrene	129-00-0	9.8		0.74	1.9		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.55	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-162-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SB-4.0-5.0

LLI Sample # SW 6363165
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 14:00

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16245 SDG#: DE214-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,500		6.61	21.9		1
07914	Boron	7440-42-8	12.6		0.393	5.46		1
01650	Calcium	7440-70-2	5,020		2.73	21.9		1
01654	Iron	7439-89-6	34,900		14.3	109		5
01656	Lithium	7439-93-2	30.8		0.68	2.2		1
01657	Magnesium	7439-95-4	8,470		0.481	10.9		1
06958	Manganese	7439-96-5	385		0.0393	0.546		1
10145	Phosphorus	7723-14-0	367		0.383	10.9		1
01662	Potassium	7440-09-7	6,070		12.4	54.6		1
01667	Sodium	7440-23-5	176		6.50	109		1
07968	Strontium	7440-24-6	38.5		0.0273	0.546		1
06969	Tin	7440-31-5	2.92	J	0.350	10.9		1
06970	Titanium	7440-32-6	1,440		0.0776	1.09		1
10146	Zirconium	7440-67-7	4.28	J	0.503	5.46		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.242		0.0817	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.46		0.0883	0.442		2
06126	Barium	7440-39-3	177		0.117	0.442		2
06127	Beryllium	7440-41-7	1.08		0.0177	0.110		2
06128	Cadmium	7440-43-9	0.189		0.0486	0.110		2
06131	Chromium	7440-47-3	41.8		0.132	0.442		2
06132	Cobalt	7440-48-4	14.2		0.0221	0.110		2
06133	Copper	7440-50-8	19.5		0.0883	0.442		2
06135	Lead	7439-92-1	11.2		0.0113	0.221		2
06138	Molybdenum	7439-98-7	0.583		0.0552	0.110		2
06139	Nickel	7440-02-0	27.5		0.110	0.442		2
06141	Selenium	7782-49-2	0.191	J	0.0640	0.442		2
06142	Silver	7440-22-4	0.0493	J	0.0157	0.110		2
06145	Thallium	7440-28-0	0.459		0.0331	0.110		2
06148	Vanadium	7440-62-2	80.8		0.0243	0.110		2
06149	Zinc	7440-66-6	99.3		0.618	3.31		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076	U	0.0076	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.1		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.8		0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-162-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SB-4.0-5.0

LLI Sample # SW 6363165
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 14:00

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16245 SDG#: DE214-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.71	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	10.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11223SLD026	08/24/2011	12:18	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11221SLC026	08/18/2011	11:07	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11221SLC026	08/10/2011	06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11223SLD026	08/12/2011	06:15	Katheryne V Sponheimer	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112200028A	08/10/2011	14:57	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112270007A	08/17/2011	22:11	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112270007A	08/15/2011	16:15	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112200028A	08/09/2011	09:30	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112175708002	08/08/2011	17:09	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112175708002	08/12/2011	10:49	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112175708002	08/11/2011	16:50	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112175708002	08/11/2011	16:54	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	112175708002	08/08/2011	17:09	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112175708002	08/11/2011	16:50	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112175708002	08/08/2011	17:09	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112175708002	08/08/2011	17:09	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112175708002	08/11/2011	16:50	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112175708002	08/11/2011	16:50	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112175708002	08/08/2011	17:09	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112175708002	08/08/2011	17:09	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112175708002	08/08/2011	17:09	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112175708002	08/08/2011	17:09	Eric L Eby	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-162-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SB-4.0-5.0

LLI Sample # SW 6363165
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 14:00

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16245 SDG#: DE214-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112171026001A	08/08/2011 10:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112171026001A	08/08/2011 10:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112171026001D	08/08/2011 10:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112171026001A	08/08/2011 10:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112171026001A	08/08/2011 10:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112171026001A	08/08/2011 10:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112171026001A	08/08/2011 10:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112171026001A	08/08/2011 10:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112171026001A	08/08/2011 10:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112171026001C	08/08/2011 10:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112171026001A	08/08/2011 10:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112171026001B	08/08/2011 10:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112171026001A	08/08/2011 10:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112171026001A	08/08/2011 10:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112171026001A	08/08/2011 10:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112171026001A	08/08/2011 10:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112155711002	08/04/2011 11:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112175708002	08/06/2011 11:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112171026001	08/06/2011 11:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112155711002	08/04/2011 09:57	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11221621201A	08/09/2011 19:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11222284201A	08/18/2011 14:00	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11223243201A	08/17/2011 07:23	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11221621201A	08/09/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11222284201A	08/11/2011 15:45	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11216039404A	08/04/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11223243201A	08/11/2011 09:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401B	08/10/2011 22:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-162-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SB-9.0-10.0

LLI Sample # SW 6363166
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 15:15

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16291 SDG#: DE214-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-162-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SB-9.0-10.0

LLI Sample # SW 6363166
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 15:15

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16291 SDG#: DE214-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	19	J	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,900		6.77	22.4		1
07914	Boron	7440-42-8	12.1		0.403	5.59		1
01650	Calcium	7440-70-2	4,480		2.80	22.4		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-162-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SB-9.0-10.0

LLI Sample # SW 6363166
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 15:15

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16291 SDG#: DE214-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	32,700		14.6	112		5
01656	Lithium	7439-93-2	30.9		0.69	2.2		1
01657	Magnesium	7439-95-4	7,640		0.492	11.2		1
06958	Manganese	7439-96-5	280		0.0403	0.559		1
10145	Phosphorus	7723-14-0	366		0.391	11.2		1
01662	Potassium	7440-09-7	3,830		12.6	55.9		1
01667	Sodium	7440-23-5	179		6.66	112		1
07968	Strontium	7440-24-6	37.8		0.0280	0.559		1
06969	Tin	7440-31-5	2.70	J	0.358	11.2		1
06970	Titanium	7440-32-6	1,550		0.0794	1.12		1
10146	Zirconium	7440-67-7	4.66	J	0.515	5.59		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.189	J	0.0844	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.78		0.0913	0.456		2
06126	Barium	7440-39-3	131		0.121	0.456		2
06127	Beryllium	7440-41-7	0.930		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.0916	J	0.0502	0.114		2
06131	Chromium	7440-47-3	39.4		0.137	0.456		2
06132	Cobalt	7440-48-4	12.4		0.0228	0.114		2
06133	Copper	7440-50-8	16.6		0.0913	0.456		2
06135	Lead	7439-92-1	10.5		0.0116	0.228		2
06138	Molybdenum	7439-98-7	0.475		0.0570	0.114		2
06139	Nickel	7440-02-0	23.6		0.114	0.456		2
06141	Selenium	7782-49-2	0.168	J	0.0662	0.456		2
06142	Silver	7440-22-4	0.0350	J	0.0162	0.114		2
06145	Thallium	7440-28-0	0.391		0.0342	0.114		2
06148	Vanadium	7440-62-2	75.8		0.0251	0.114		2
06149	Zinc	7440-66-6	82.7		0.639	3.42		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0079	U	0.0079	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.7		0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-162-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SB-9.0-10.0

LLI Sample # SW 6363166
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 15:15

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16291 SDG#: DE214-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.24	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11223SLD026	08/24/2011	12:43	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11221SLC026	08/18/2011	11:41	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11221SLC026	08/10/2011	06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11223SLD026	08/12/2011	06:15	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112270007A	08/17/2011	22:30	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112270007A	08/15/2011	16:15	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	112175708002	08/08/2011	17:21	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112175708002	08/12/2011	10:54	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112175708002	08/08/2011	17:21	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112175708002	08/11/2011	17:02	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	112175708002	08/08/2011	17:21	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112175708002	08/08/2011	17:21	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112175708002	08/08/2011	17:21	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112175708002	08/08/2011	17:21	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112175708002	08/08/2011	17:21	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112175708002	08/08/2011	17:21	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112175708002	08/08/2011	17:21	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112175708002	08/08/2011	17:21	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112175708002	08/08/2011	17:21	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112175708002	08/08/2011	17:21	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112171026001A	08/08/2011	10:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112171026001A	08/08/2011	10:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112171026001D	08/08/2011	10:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112171026001A	08/08/2011	10:54	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-162-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SB-9.0-10.0

LLI Sample # SW 6363166
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 15:15

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16291 SDG#: DE214-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112171026001A	08/08/2011 10:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112171026001A	08/08/2011 10:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112171026001A	08/08/2011 10:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112171026001A	08/08/2011 10:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112171026001A	08/08/2011 10:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112171026001C	08/08/2011 10:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112171026001A	08/08/2011 10:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112171026001B	08/08/2011 10:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112171026001A	08/08/2011 10:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112171026001A	08/08/2011 10:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112171026001A	08/08/2011 10:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112171026001A	08/08/2011 10:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112155711002	08/04/2011 12:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112175708002	08/06/2011 11:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112171026001	08/06/2011 11:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112155711002	08/04/2011 09:57	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11221621201A	08/09/2011 19:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11222284201A	08/15/2011 19:33	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11223243201A	08/17/2011 07:52	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11221621201A	08/09/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11222284201A	08/11/2011 15:45	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11216039404A	08/04/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11223243201A	08/11/2011 09:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401B	08/10/2011 22:19	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: EB-SA6-SB-080211 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-080211

LLI Sample # WW 6363167
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 13:00

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB802 SDG#: DE214-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB-SA6-SB-080211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-080211

LLI Sample # WW 6363167
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 13:00

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB802 SDG#: DE214-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	4.53		0.543	1.09		1
	The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	61		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1

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Sample Description: EB-SA6-SB-080211 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-080211

LLI Sample # WW 6363167
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 13:00

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB802 SDG#: DE214-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	30		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	30		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	Tetralin	119-64-2	5	U	5	5		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.051		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.051		1
10137	Anthracene	120-12-7	0.12		0.010	0.051		1
10137	Benzo(a)anthracene	56-55-3	0.015	J	0.010	0.051		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.051		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB-SA6-SB-080211 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-080211

LLI Sample # WW 6363167
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 13:00

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB802 SDG#: DE214-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Benzo(b)fluoranthene	205-99-2	0.013	J	0.010	0.051		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.051		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.051		1
10137	Butylbenzylphthalate	85-68-7	0.14	J	0.051	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.22	J	0.051	1.0		1
10137	Chrysene	218-01-9	0.014	J	0.010	0.051		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.051		1
10137	Diethylphthalate	84-66-2	0.086	J	0.051	1.0		1
10137	Dimethylphthalate	131-11-3	0.051	U	0.051	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.27	J	0.051	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.051		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.051		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.051		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.051		1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.051		1
10137	Naphthalene	91-20-3	0.044	J	0.031	0.051		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.051		1
10137	Di-n-octylphthalate	117-84-0	0.20	J	0.051	1.0		1
10137	Phenanthrene	85-01-8	0.031	U	0.031	0.051		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.051		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		ug/l		ug/l	ug/l	ug/l	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.34	J	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB-SA6-SB-080211 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-080211

LLI Sample # WW 6363167
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 13:00

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB802 SDG#: DE214-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	1.6		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-analyzed outside of the method required holding time, and LCS/LCSD recoveries are within the QC acceptance limits. Since the hold time had expired prior to the second analysis the original results are reported. Similar results were obtained in both trials.

HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	20b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.51		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.51		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.51		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.51		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.51		1
10227	PCB-1232	11141-16-5	0.21	U	0.21	0.51		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.51		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.51		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.51		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.51		1
10227	PCB-1262	37324-23-5	0.21	U	0.21	0.51		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.51		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	20	U	20	200		1
08278	Ethylene glycol	107-21-1	20	U	20	200		1
08278	Propylene glycol	57-55-6	20	U	20	200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB-SA6-SB-080211 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-080211

LLI Sample # WW 6363167
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 13:00

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB802 SDG#: DE214-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.084	U	0.084	0.26		1
10319	o-Terphenyl	84-15-1	0.084	U	0.084	0.26		1
10319	p-Terphenyl	92-94-4	0.084	U	0.084	0.26		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.097	U	0.097	0.58		1
10365	EFH (C15-C20)	n.a.	0.097	U	0.097	0.58		1
10365	EFH (C21-C30)	n.a.	0.097	U	0.097	0.58		1
10365	EFH (C30 - C40)	n.a.	0.097	U	0.097	0.58		1
10365	EFH (C8-C11)	n.a.	0.097	U	0.097	0.58		1
	The LCS/LCSD recoveries are outside the QC limits. There was no sample volume remaining to reextract; therefore, the data was reported.							
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0801	U	0.0801	0.200		1
08014	Boron	7440-42-8	0.0037	J	0.0022	0.0500		1
01750	Calcium	7440-70-2	0.0705	U	0.0705	0.200		1
01754	Iron	7439-89-6	0.0141	U	0.0141	0.200		1
01756	Lithium	7439-93-2	0.0076	U	0.0076	0.0200		1
01757	Magnesium	7439-95-4	0.0067	U	0.0067	0.100		1
07058	Manganese	7439-96-5	0.00044	U	0.00044	0.0050		1
10143	Phosphorus	7723-14-0	0.0047	U	0.0047	0.100		1
01762	Potassium	7440-09-7	0.0874	U	0.0874	0.500		1
01767	Sodium	7440-23-5	0.0647	U	0.0647	1.00		1
08068	Strontium	7440-24-6	0.00022	U	0.00022	0.0050		1
07069	Tin	7440-31-5	0.0043	U	0.0043	0.0200		1
07070	Titanium	7440-32-6	0.00046	U	0.00046	0.0100		1
10144	Zirconium	7440-67-7	0.0042	U	0.0042	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00042	U	0.00042	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00069	U	0.00069	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000080	U	0.000080	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00027	U	0.00027	0.0020		1
06042	Silver	7440-22-4	0.000098	U	0.000098	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00018	U	0.00018	0.00050		1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150		1

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Analysis Report

Sample Description: EB-SA6-SB-080211 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-080211

LLI Sample # WW 6363167
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 13:00

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB802 SDG#: DE214-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7470A**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000036 J	0.000026	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	16b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	17b pH by 9040B	n.a.	6.0	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260B	SW-846 8260B	1	Y112202AA	08/08/2011 23:52	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112211AA	08/09/2011 12:02	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y112202AA	08/08/2011 23:52	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E112211AA	08/09/2011 12:02	Jason M Long	1
10962	21b NDMA by 1625C	EPA 1625C	1	11221WAA026	08/12/2011 16:04	Matthew S Woods	1
04678	5b SVOCs with Tetralin 8270C	SW-846 8270C	1	11218WAB026	09/02/2011 03:26	Ryan P Byrne	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11218WAC026	08/29/2011 21:33	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11218WAB026	08/08/2011 10:00	Roza S Goslawska	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11218WAC026	08/08/2011 09:55	Roza S Goslawska	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11221WAA026	08/09/2011 10:50	Kelli M Barto	1

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Sample Description: **EB-SA6-SB-080211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-080211

LLI Sample # WW 6363167
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 13:00

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB802 SDG#: DE214-04EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11221A20A	08/10/2011 16:26	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11221A20A	08/10/2011 16:26	Laura M Krieger	1
10131	15b Energetics by 8330A	SW-846 8330A	1	112200026A	08/12/2011 07:50	James H Place	1
04144	20b Formaldehyde 8315A	SW-846 8315A	1	112160023A	08/06/2011 09:07	Michele D Hamilton	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	112200023A	08/12/2011 10:30	Sarah M Snyder	1
11117	PCB Waters Extraction	SW-846 3510C	1	112200023A	08/09/2011 04:30	Sherry L Morrow	1
01013	Formaldehyde Extraction	SW-846 8315A	1	112160023A	08/05/2011 11:40	Denise L Trimby	1
11122	Energetics Extraction	SW-846 8330	1	112200026A	08/09/2011 12:30	Kelli M Barto	1
06624	18b Alcohols by 8015B	SW-846 8015B	1	112170037A	08/05/2011 19:11	Elizabeth J Marin	1
08278	19b Glycols by 8015B	SW-846 8015B modified	1	112210001A	08/09/2011 13:26	Dustin A Underkoffler	1
10319	22b Terphenyls by 8015B	SW-846 8015B	1	112170011A	08/07/2011 00:17	Tracy A Cole	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112170012A	08/07/2011 02:38	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	112170012A	08/05/2011 18:00	Kathryn I DeHaven	1
10304	Terphenyls water prep	SW-846 3510C	1	112170011A	08/05/2011 18:00	Kathryn I DeHaven	1
01743	Aluminum	SW-846 6010B	1	112151848004	08/05/2011 05:44	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	112151848004	08/05/2011 05:44	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	112151848004	08/05/2011 05:44	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	112151848004	08/05/2011 05:44	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	112151848004	08/05/2011 05:44	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	112151848004	08/05/2011 05:44	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	112151848004	08/05/2011 05:44	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	112151848004	08/05/2011 05:44	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	112151848004	08/05/2011 05:44	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	112151848004	08/05/2011 05:44	Tara L Snyder	1
08068	Strontium	SW-846 6010B	1	112151848004	08/05/2011 05:44	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	112151848004	08/05/2011 05:44	Tara L Snyder	1
07070	Titanium	SW-846 6010B	1	112151848004	08/05/2011 05:44	Tara L Snyder	1
10144	Zirconium	SW-846 6010B	1	112151848004	08/05/2011 05:44	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	112156050002A	08/05/2011 07:02	David K Beck	1
06025	Arsenic	SW-846 6020	1	112156050002A	08/05/2011 07:02	David K Beck	1
06026	Barium	SW-846 6020	1	112156050002D	08/05/2011 07:02	David K Beck	1
06027	Beryllium	SW-846 6020	1	112156050002A	08/05/2011 07:02	David K Beck	1
06028	Cadmium	SW-846 6020	1	112156050002A	08/05/2011 07:02	David K Beck	1
06031	Chromium	SW-846 6020	1	112156050002A	08/05/2011 07:02	David K Beck	1
06032	Cobalt	SW-846 6020	1	112156050002A	08/05/2011 07:02	David K Beck	1
06033	Copper	SW-846 6020	1	112156050002A	08/05/2011 07:02	David K Beck	1
06035	Lead	SW-846 6020	1	112156050002A	08/05/2011 07:02	David K Beck	1
06038	Molybdenum	SW-846 6020	1	112156050002C	08/05/2011 07:02	David K Beck	1
06039	Nickel	SW-846 6020	1	112156050002A	08/05/2011 07:02	David K Beck	1
06041	Selenium	SW-846 6020	1	112156050002B	08/05/2011 07:02	David K Beck	1
06042	Silver	SW-846 6020	1	112156050002A	08/05/2011 07:02	David K Beck	1
06045	Thallium	SW-846 6020	1	112156050002A	08/05/2011 07:02	David K Beck	1
06048	Vanadium	SW-846 6020	1	112156050002A	08/05/2011 07:02	David K Beck	1
06049	Zinc	SW-846 6020	1	112156050002A	08/05/2011 07:02	David K Beck	1
00259	Mercury	SW-846 7470A	1	112165713006	08/05/2011 08:33	Damary Valentin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **EB-SA6-SB-080211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-080211

LLI Sample # WW 6363167
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 13:00

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB802 SDG#: DE214-04EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	112151848004	08/04/2011 09:48	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	112156050002	08/04/2011 09:45	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	112165713006	08/04/2011 16:15	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11215196603C	08/03/2011 23:11	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11215196603C	08/03/2011 23:11	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11215281101A	08/04/2011 16:44	Elyse P Brunstetter	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11215281401A	08/03/2011 11:54	Elyse P Brunstetter	1
08255	16b Cyanide by 9012B	SW-846 9012B	1	11220117101B	08/08/2011 15:19	Venia B McFadden	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11220117101B	08/08/2011 09:20	Nancy J Shoop	1
00200	17b pH by 9040B	SW-846 9040B	1	11217020001A	08/05/2011 20:50	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-128-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SB-4.0-5.0

LLI Sample # SW 6363168
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 12:25

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12845 SDG#: DE214-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SL-128-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SB-4.0-5.0

LLI Sample # SW 6363168
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 12:25

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12845 SDG#: DE214-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.88	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.0	J	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.2	J	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.98	J	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.94	J	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	1.3	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	J	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	1.3	J	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.89	J	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	1.0	J	0.71	1.8		1
10138	Pyrene	129-00-0	1.3	J	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25.77
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	5.7		1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1

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Sample Description: SL-128-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SB-4.0-5.0

LLI Sample # SW 6363168
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 12:25

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12845 SDG#: DE214-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	7.1		0.35	1.8		1
10225	PCB-1260	11096-82-5	5.0		0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.61	J	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	2.1		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,200		6.28	20.8		1
07914	Boron	7440-42-8	6.33		0.374	5.19		1
01650	Calcium	7440-70-2	2,470		2.60	20.8		1
01654	Iron	7439-89-6	17,400		2.71	20.8		1
01656	Lithium	7439-93-2	22.1		0.64	2.1		1
01657	Magnesium	7439-95-4	3,700		0.457	10.4		1
06958	Manganese	7439-96-5	239		0.0374	0.519		1
10145	Phosphorus	7723-14-0	223		0.363	10.4		1
01662	Potassium	7440-09-7	2,070		11.7	51.9		1
01667	Sodium	7440-23-5	70.1	J	6.18	104		1
07968	Strontium	7440-24-6	19.1		0.0260	0.519		1
06969	Tin	7440-31-5	2.52	J	0.332	10.4		1
06970	Titanium	7440-32-6	949		0.0737	1.04		1
10146	Zirconium	7440-67-7	1.09	J	0.478	5.19		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-128-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SB-4.0-5.0

LLI Sample # SW 6363168
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 12:25

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12845 SDG#: DE214-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0838 J	0.0768	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	13.3	0.0831	0.415		2
06126	Barium	7440-39-3	94.3	0.110	0.415		2
06127	Beryllium	7440-41-7	0.692	0.0166	0.104		2
06128	Cadmium	7440-43-9	0.120	0.0457	0.104		2
06131	Chromium	7440-47-3	16.9	0.125	0.415		2
06132	Cobalt	7440-48-4	5.53	0.0208	0.104		2
06133	Copper	7440-50-8	6.95	0.0831	0.415		2
06135	Lead	7439-92-1	5.24	0.0106	0.208		2
06138	Molybdenum	7439-98-7	0.881	0.0519	0.104		2
06139	Nickel	7440-02-0	11.5	0.104	0.415		2
06141	Selenium	7782-49-2	0.109 J	0.0602	0.415		2
06142	Silver	7440-22-4	0.0643 J	0.0147	0.104		2
06145	Thallium	7440-28-0	0.253	0.0312	0.104		2
06148	Vanadium	7440-62-2	33.1	0.0228	0.104		2
06149	Zinc	7440-66-6	48.8	0.581	3.12		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073 U	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.0	0.87	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6 U	9.6	32.1		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21 U	0.21	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.10	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: SL-128-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SB-4.0-5.0

LLI Sample # SW 6363168
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 12:25

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14420 Albemarle Point Place
Suite 210
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12845 SDG#: DE214-05

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-128-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11223SLD026	08/24/2011 13:08	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11221SLC026	08/18/2011 12:14	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11221SLC026	08/10/2011 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11223SLD026	08/12/2011 06:15	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11216A34A	08/04/2011 18:44	Marie D John	25.77
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201121525102	08/03/2011 15:58	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201121525102	08/03/2011 15:58	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112270007A	09/21/2011 14:36	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112270007A	08/15/2011 16:15	JoElla L Rice	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112150028A	08/04/2011 22:08	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112160008A	08/04/2011 14:57	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112220032A	08/12/2011 23:19	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112220015A	08/13/2011 04:22	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112220015A	08/10/2011 17:45	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	112220032A	08/11/2011 06:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112150028A	08/04/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112160008A	08/04/2011 00:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112175708002	08/08/2011 17:25	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112175708002	08/12/2011 11:06	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112175708002	08/08/2011 17:25	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112175708002	08/08/2011 17:25	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112175708002	08/08/2011 17:25	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112175708002	08/08/2011 17:25	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112175708002	08/08/2011 17:25	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112175708002	08/08/2011 17:25	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112175708002	08/08/2011 17:25	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112175708002	08/08/2011 17:25	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112175708002	08/08/2011 17:25	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112175708002	08/08/2011 17:25	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112175708002	08/08/2011 17:25	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112175708002	08/08/2011 17:25	Eric L Eby	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-128-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SB-4.0-5.0

LLI Sample # SW 6363168
LLI Group # 1259584
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Project Name: SSFL Area IV Collocated Soil Sampling

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12845 SDG#: DE214-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112171026001A	08/08/2011 11:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112171026001A	08/08/2011 11:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112171026001D	08/08/2011 11:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112171026001A	08/08/2011 11:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112171026001A	08/08/2011 11:03	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112171026001A	08/08/2011 11:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112171026001A	08/08/2011 11:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112171026001A	08/08/2011 11:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112171026001A	08/08/2011 11:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112171026001C	08/08/2011 11:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112171026001A	08/08/2011 11:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112171026001B	08/08/2011 11:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112171026001A	08/08/2011 11:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112171026001A	08/08/2011 11:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112171026001A	08/08/2011 11:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112171026001A	08/08/2011 11:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112155711002	08/04/2011 12:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112175708002	08/06/2011 11:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112171026001	08/06/2011 11:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112155711002	08/04/2011 09:57	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11221621201A	08/09/2011 19:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11222284201A	08/15/2011 19:56	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11223243201A	08/17/2011 08:06	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11221621201A	08/09/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11222284201A	08/11/2011 15:45	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11216039404A	08/04/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11223243201A	08/11/2011 09:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401B	08/10/2011 22:19	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-128-SA6-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SB-7.5-8.5

LLI Sample # SW 6363169
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 12:35

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12878 SDG#: DE214-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SL-128-SA6-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SB-7.5-8.5

LLI Sample # SW 6363169
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 12:35

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12878 SDG#: DE214-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	5.1		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	5.0		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	7.7		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	3.0		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	2.4		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	5.7		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.6	J	6.6	20		1
10138	Fluoranthene	206-44-0	4.9		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.2		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	6.5		0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.54
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1

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Sample Description: SL-128-SA6-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SB-7.5-8.5

LLI Sample # SW 6363169
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 12:35

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12878 SDG#: DE214-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.84	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	3.2		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	8.9		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,800		6.58	21.8		1
07914	Boron	7440-42-8	6.77		0.392	5.44		1
01650	Calcium	7440-70-2	2,610		2.72	21.8		1
01654	Iron	7439-89-6	21,800		2.84	21.8		1
01656	Lithium	7439-93-2	28.3		0.67	2.2		1
01657	Magnesium	7439-95-4	5,370		0.479	10.9		1
06958	Manganese	7439-96-5	764		0.0392	0.544		1
10145	Phosphorus	7723-14-0	428		0.381	10.9		1
01662	Potassium	7440-09-7	2,900		12.3	54.4		1
01667	Sodium	7440-23-5	130		6.47	109		1
07968	Strontium	7440-24-6	17.5		0.0272	0.544		1
06969	Tin	7440-31-5	2.75	J	0.348	10.9		1
06970	Titanium	7440-32-6	1,160		0.0772	1.09		1
10146	Zirconium	7440-67-7	0.770	J	0.500	5.44		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-128-SA6-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SB-7.5-8.5

LLI Sample # SW 6363169
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 12:35

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12878 SDG#: DE214-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0920 J	0.0797	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.85	0.0862	0.431		2
06126	Barium	7440-39-3	101	0.114	0.431		2
06127	Beryllium	7440-41-7	0.543	0.0172	0.108		2
06128	Cadmium	7440-43-9	0.147	0.0474	0.108		2
06131	Chromium	7440-47-3	18.3	0.129	0.431		2
06132	Cobalt	7440-48-4	6.86	0.0215	0.108		2
06133	Copper	7440-50-8	8.52	0.0862	0.431		2
06135	Lead	7439-92-1	5.53	0.0110	0.215		2
06138	Molybdenum	7439-98-7	0.579	0.0539	0.108		2
06139	Nickel	7440-02-0	12.7	0.108	0.431		2
06141	Selenium	7782-49-2	0.135 J	0.0625	0.431		2
06142	Silver	7440-22-4	0.0364 J	0.0153	0.108		2
06145	Thallium	7440-28-0	0.272	0.0323	0.108		2
06148	Vanadium	7440-62-2	38.2	0.0237	0.108		2
06149	Zinc	7440-66-6	64.9	0.603	3.23		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073 U	0.0073	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3	0.88	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.29	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-128-SA6-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SB-7.5-8.5

LLI Sample # SW 6363169
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 12:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12878 SDG#: DE214-06

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-128-SA6-SB-8.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11223SLD026	08/24/2011 13:33	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11221SLC026	08/18/2011 12:47	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11221SLC026	08/10/2011 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11223SLD026	08/12/2011 06:15	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11216A34A	08/04/2011 19:20	Marie D John	23.54
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201121525102	08/03/2011 15:59	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201121525102	08/03/2011 15:59	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112270007A	08/18/2011 00:21	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112270007A	08/15/2011 16:15	JoElla L Rice	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112150028A	08/04/2011 22:22	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112160008A	08/04/2011 15:10	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112220032A	08/13/2011 00:04	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112220015A	08/13/2011 07:32	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112220015A	08/10/2011 17:45	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	112220032A	08/11/2011 06:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112150028A	08/04/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112160008A	08/04/2011 00:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112175708002	08/08/2011 17:29	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112175708002	08/12/2011 11:10	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112175708002	08/08/2011 17:29	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112175708002	08/08/2011 17:29	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112175708002	08/08/2011 17:29	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112175708002	08/08/2011 17:29	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112175708002	08/08/2011 17:29	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112175708002	08/08/2011 17:29	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112175708002	08/08/2011 17:29	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112175708002	08/08/2011 17:29	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112175708002	08/08/2011 17:29	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112175708002	08/08/2011 17:29	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112175708002	08/08/2011 17:29	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112175708002	08/08/2011 17:29	Eric L Eby	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-128-SA6-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SB-7.5-8.5

LLI Sample # SW 6363169
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 12:35

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12878 SDG#: DE214-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112171026001A	08/08/2011 11:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112171026001A	08/08/2011 11:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112171026001D	08/08/2011 11:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112171026001A	08/08/2011 11:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112171026001A	08/08/2011 11:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112171026001A	08/08/2011 11:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112171026001A	08/08/2011 11:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112171026001A	08/08/2011 11:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112171026001A	08/08/2011 11:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112171026001C	08/08/2011 11:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112171026001A	08/08/2011 11:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112171026001B	08/08/2011 11:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112171026001A	08/08/2011 11:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112171026001A	08/08/2011 11:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112171026001A	08/08/2011 11:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112171026001A	08/08/2011 11:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112155711002	08/04/2011 12:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112175708002	08/06/2011 11:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112171026001	08/06/2011 11:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112155711002	08/04/2011 09:57	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11221621201A	08/09/2011 19:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11222284201A	08/15/2011 20:19	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11223243201A	08/17/2011 08:20	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11221621201A	08/09/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11222284201A	08/11/2011 15:45	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11216039404A	08/04/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11223243201A	08/11/2011 09:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401B	08/10/2011 22:19	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-145-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA6-SB-3.5-4.5

LLI Sample # SW 6363170
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 08:28

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14534 SDG#: DE214-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-145-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA6-SB-3.5-4.5

LLI Sample # SW 6363170
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 08:28

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14534 SDG#: DE214-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.47	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.73	J	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.9
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-145-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA6-SB-3.5-4.5

LLI Sample # SW 6363170
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 08:28

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14534 SDG#: DE214-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	1.0	J	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,700		6.32	20.9		1
07914	Boron	7440-42-8	6.76		0.376	5.23		1
01650	Calcium	7440-70-2	2,500		2.61	20.9		1
01654	Iron	7439-89-6	21,700		2.73	20.9		1
01656	Lithium	7439-93-2	26.2		0.65	2.1		1
01657	Magnesium	7439-95-4	4,660		0.460	10.5		1
06958	Manganese	7439-96-5	326		0.0376	0.523		1
10145	Phosphorus	7723-14-0	443		0.366	10.5		1
01662	Potassium	7440-09-7	3,530		11.8	52.3		1
01667	Sodium	7440-23-5	56.2	J	6.22	105		1
07968	Strontium	7440-24-6	17.5		0.0261	0.523		1
06969	Tin	7440-31-5	2.56	J	0.334	10.5		1
06970	Titanium	7440-32-6	1,120		0.0742	1.05		1
10146	Zirconium	7440-67-7	0.996	J	0.481	5.23		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-145-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA6-SB-3.5-4.5

LLI Sample # SW 6363170
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 08:28

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14534 SDG#: DE214-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0995 J	0.0766	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.78	0.0828	0.414		2
06126	Barium	7440-39-3	126	0.110	0.414		2
06127	Beryllium	7440-41-7	0.688	0.0166	0.104		2
06128	Cadmium	7440-43-9	0.203	0.0455	0.104		2
06131	Chromium	7440-47-3	22.9	0.124	0.414		2
06132	Cobalt	7440-48-4	7.44	0.0207	0.104		2
06133	Copper	7440-50-8	11.3	0.0828	0.414		2
06135	Lead	7439-92-1	5.89	0.0106	0.207		2
06138	Molybdenum	7439-98-7	0.634	0.0518	0.104		2
06139	Nickel	7440-02-0	15.4	0.104	0.414		2
06141	Selenium	7782-49-2	0.161 J	0.0600	0.414		2
06142	Silver	7440-22-4	0.0540 J	0.0147	0.104		2
06145	Thallium	7440-28-0	0.344	0.0311	0.104		2
06148	Vanadium	7440-62-2	43.9	0.0228	0.104		2
06149	Zinc	7440-66-6	68.8	0.580	3.11		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075 U	0.0075	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3	0.84	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7 U	9.7	32.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	2.1	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.40	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-145-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA6-SB-3.5-4.5

LLI Sample # SW 6363170
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 08:28

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14534 SDG#: DE214-07

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-145-SA6-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11223SLD026	08/24/2011 13:58	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11221SLC026	08/18/2011 13:20	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11221SLC026	08/10/2011 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11223SLD026	08/12/2011 06:15	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11216A34A	08/04/2011 19:57	Marie D John	23.9
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201121525102	08/03/2011 16:00	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201121525102	08/03/2011 16:01	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112270007A	08/18/2011 00:40	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112270007A	08/15/2011 16:15	JoElla L Rice	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112150028A	08/04/2011 22:37	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112160008A	08/04/2011 15:22	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112220032A	08/13/2011 00:48	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112220015A	08/13/2011 04:46	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112220015A	08/10/2011 17:45	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	112220032A	08/11/2011 06:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112150028A	08/04/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112160008A	08/04/2011 00:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112175708002	08/08/2011 17:34	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112175708002	08/12/2011 11:14	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112175708002	08/08/2011 17:34	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112175708002	08/08/2011 17:34	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112175708002	08/08/2011 17:34	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112175708002	08/08/2011 17:34	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112175708002	08/08/2011 17:34	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112175708002	08/08/2011 17:34	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112175708002	08/08/2011 17:34	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112175708002	08/08/2011 17:34	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112175708002	08/08/2011 17:34	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112175708002	08/08/2011 17:34	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112175708002	08/08/2011 17:34	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112175708002	08/08/2011 17:34	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-145-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA6-SB-3.5-4.5

LLI Sample # SW 6363170
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 08:28

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14534 SDG#: DE214-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112171026001A	08/08/2011 11:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112171026001A	08/08/2011 11:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112171026001D	08/08/2011 11:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112171026001A	08/08/2011 11:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112171026001A	08/08/2011 11:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112171026001A	08/08/2011 11:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112171026001A	08/08/2011 11:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112171026001A	08/08/2011 11:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112171026001A	08/08/2011 11:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112171026001C	08/08/2011 11:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112171026001A	08/08/2011 11:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112171026001B	08/08/2011 11:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112171026001A	08/08/2011 11:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112171026001A	08/08/2011 11:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112171026001A	08/08/2011 11:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112171026001A	08/08/2011 11:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112155711002	08/04/2011 12:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112175708002	08/06/2011 11:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112171026001	08/06/2011 11:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112155711002	08/04/2011 09:57	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11221621201A	08/09/2011 20:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11222284201A	08/15/2011 20:42	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11223243201A	08/17/2011 08:35	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11221621201A	08/09/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11222284201A	08/11/2011 15:45	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11216039404A	08/04/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11223243201A	08/11/2011 09:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401B	08/10/2011 22:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-080211 Water
SSFL Area IV Collocated Soil Sampling
TB-080211

LLI Sample # WW 6363171
LLI Group # 1259584
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 14:30

Submitted: 08/03/2011 10:05
Reported: 09/22/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB802 SDG#: DE214-08TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11221A20A	08/10/2011	16:04	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11221A20A	08/10/2011	16:04	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259584
Reported: 09/22/11 at 10:48 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: E112211AA	Sample number(s): 6363167									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	101	111	80-123	9	30
Batch number: Y112202AA	Sample number(s): 6363167									
Acetone	6	U	6.	20	ug/l	119	139	49-234	15	30
Benzene	0.5	U	0.5	5	ug/l	105	105	79-120	0	30
Bromobenzene	1	U	1.	5	ug/l	104	105	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	106	107	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	101	100	80-120	1	30
Bromoform	1	U	1.	5	ug/l	98	96	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	81	82	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	103	113	66-151	9	30
n-Butylbenzene	1	U	1.	5	ug/l	109	112	74-120	2	30
sec-Butylbenzene	1	U	1.	5	ug/l	112	115	78-120	2	30
tert-Butylbenzene	1	U	1.	5	ug/l	103	105	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	98	98	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	104	105	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	79	80	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	95	99	56-129	4	30
Chloroform	0.8	U	0.8	5	ug/l	103	104	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	79	80	60-129	2	30
2-Chlorotoluene	1	U	1.	5	ug/l	106	108	80-120	2	30
4-Chlorotoluene	1	U	1.	5	ug/l	109	108	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	99	100	38-136	2	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	106	107	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	99	99	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	102	103	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	100	100	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	108	109	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	106	108	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	105	106	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	65	64	47-120	1	30
1,1-Dichloroethane	1	U	1.	5	ug/l	101	101	79-120	0	30
1,2-Dichloroethane	1	U	1.	5	ug/l	104	104	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	97	99	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	103	105	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	100	100	80-120	0	30
1,2-Dichloropropane	1	U	1.	5	ug/l	101	103	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	103	105	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	96	97	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	100	100	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	98	99	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	97	97	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	107	107	79-120	1	30
Freon 113	2	U	2.	10	ug/l	98	96	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	80	82	77-120	2	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259584
Reported: 09/22/11 at 10:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachlorobutadiene	2	U	2.	5	ug/l	97	99	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	105	111	65-136	6	30
Isopropylbenzene	1	U	1.	5	ug/l	110	110	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	110	111	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	99	100	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	101	103	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	102	97	80-120	5	30
n-Propylbenzene	1	U	1.	5	ug/l	112	113	80-120	1	30
Styrene	1	U	1.	5	ug/l	108	108	80-120	0	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	103	103	80-120	0	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	108	108	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	99	100	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	105	104	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	106	108	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	100	100	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	99	101	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	105	104	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	101	103	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	89	89	64-129	0	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	105	108	80-120	3	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	111	113	74-120	2	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	112	113	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	81	83	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	108	107	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	106	107	80-120	1	30
Batch number: 11218WAB026	Sample number(s): 6363167									
Aniline	1	U	1.	5	ug/l	82	83	38-116	2	30
Benzidine	20	U	20.	60	ug/l	46	56	34-117	18	30
Benzoic acid	6	U	6.	15	ug/l	35	25	10-69	32*	30
Benzyl alcohol	5	U	5.	15	ug/l	89	84	66-97	6	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	101	99	75-115	2	30
Carbazole	1	U	1.	5	ug/l	101	100	75-120	1	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	97	96	70-123	2	30
4-Chloroaniline	1	U	1.	5	ug/l	67	76	24-128	13	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	100	99	74-124	2	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	100	97	77-108	3	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	96	95	62-127	1	30
2-Chloronaphthalene	2	U	2.	5	ug/l	89	89	54-132	0	30
2-Chlorophenol	1	U	1.	5	ug/l	95	90	71-114	5	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	96	98	77-114	2	30
Dibenzofuran	1	U	1.	5	ug/l	96	99	75-117	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	89	87	55-118	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	88	84	61-111	5	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	88	84	53-119	4	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	73	79	37-117	8	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	103	97	77-117	6	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	101	97	72-110	4	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	113	111	70-130	2	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	63*	65	65-126	3	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	46*	51*	52-131	10	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	98	102	76-119	3	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	101	102	76-118	1	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	104	103	68-127	1	30
Hexachlorobenzene	1	U	1.	5	ug/l	104	101	75-119	3	30
Hexachlorobutadiene	1	U	1.	5	ug/l	87	85	57-124	3	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	54	52	36-118	3	30
Hexachloroethane	1	U	1.	5	ug/l	82	80	52-113	3	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259584
Reported: 09/22/11 at 10:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isophorone	1	U	1.	5	ug/l	102	100	74-117	2	30
2-Methylphenol	1	U	1.	5	ug/l	99	96	58-110	4	30
4-Methylphenol	2	U	2.	5	ug/l	95	93	49-108	3	30
2-Nitroaniline	1	U	1.	5	ug/l	99	102	75-120	4	30
3-Nitroaniline	1	U	1.	5	ug/l	95	98	74-113	3	30
4-Nitroaniline	1	U	1.	5	ug/l	74	79	59-100	6	30
Nitrobenzene	1	U	1.	5	ug/l	99	99	75-109	0	30
2-Nitrophenol	1	U	1.	5	ug/l	95	90	76-118	5	30
4-Nitrophenol	10	U	10.	30	ug/l	38	36	16-78	7	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	98	97	69-110	0	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	99	97	67-136	2	30
Pentachlorophenol	3	U	3.	15	ug/l	85	81	53-110	5	30
Phenol	1	U	1.	5	ug/l	59	55	21-67	8	30
Tetralin	5	U	5.	5	ug/l	91	71	70-130	25	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	91	89	71-112	2	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	90	89	79-107	2	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	93	90	76-120	4	30
Batch number: 11218WAC026	Sample number(s): 6363167									
Acenaphthene	0.010	U	0.010	0.050	ug/l	107	105	74-109	2	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	103	102	70-110	1	30
Anthracene	0.010	U	0.010	0.050	ug/l	107	105	66-111	2	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	107	106	72-114	1	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	103	103	60-127	0	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	116	116	58-151	0	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	86	85	57-131	1	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	108	105	59-130	2	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	109	104	40-138	5	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	126	126	56-148	0	30
Chrysene	0.010	U	0.010	0.050	ug/l	103	101	76-116	2	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	90	89	55-134	1	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	100	97	37-148	4	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	114	103	40-119	11	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	115	122	57-154	6	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	112	110	75-116	2	30
Fluorene	0.010	U	0.010	0.050	ug/l	109	108	75-114	1	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	89	88	53-158	1	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	99	99	71-117	0	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	99	98	75-115	1	30
Naphthalene	0.030	U	0.030	0.050	ug/l	100	100	72-109	0	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	72	71	36-89	2	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	125	131	57-145	4	30
Phenanthrene	0.030	U	0.030	0.050	ug/l	102	100	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	104	102	69-118	2	30
Batch number: 11221SLC026	Sample number(s): 6363164-6363166,6363168-6363170									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	94		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	90		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	92		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	99		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	86		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	107		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	80		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	80		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	113		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	113		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	99		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	84		53-138		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259584
Reported: 09/22/11 at 10:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Diethylphthalate	6.0	U	6.0	18	ug/kg	92		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	101		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	106		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	97		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	97		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	82		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	85		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	87		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	82		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	86		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	90		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	102		72-119		
Batch number: 11221WAA026	Sample number(s): 6363167									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	94	97	70-130	3	30
Batch number: 11223SLD026	Sample number(s): 6363164-6363166,6363168-6363170									
Aniline	170 U		170.	500	ug/kg	68		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	48		15-121		
Benzoic acid	170 U		170.	500	ug/kg	65		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	80		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	118*		73-114		
Carbazole	17	U	17.	170	ug/kg	96		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	101		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	65		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	99		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	91		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	83		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	115		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	98		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		74-115		
Dibenzofuran	17	U	17.	170	ug/kg	103		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	81		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	80		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	77		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	55		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	106		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	107		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	111		83-120		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	60		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	30		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	106		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	112		71-125		
Hexachlorobenzene	17	U	17.	170	ug/kg	113		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	100		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	84		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	82		61-109		
Isophorone	17	U	17.	170	ug/kg	101		69-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259584
Reported: 09/22/11 at 10:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Methylphenol	33	U	33.	170	ug/kg	94		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	88		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	107		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	97		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	78		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	106		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	96		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	83		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	90		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	103		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	89		51-117		
Phenol	17	U	17.	170	ug/kg	88		58-112		
Tetralin	170	U	170.	170	ug/kg	86		70-130		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	96		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	99		78-111		
Batch number: 11216A34A	Sample number(s): 6363168-6363170									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	70		67-119		
Batch number: 11221A20A	Sample number(s): 6363167,6363171									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	100	75-135	9	30
Batch number: 112200026A	Sample number(s): 6363167									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	110	110	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	123*	107	50-122	14	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	123*	107	50-122	14	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	110	110	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	98	99	80-120	1	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	110	110	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	95	95	65-125	0	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	96	97	75-121	1	30
Nitroglycerin	5.2	U	5.2	15	ug/l	108	113	80-120	4	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	74-120	0	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	110*	110*	69-107	0	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	99	100	80-120	1	30
PETN	6.0	U	6.0	18	ug/l	133*	133*	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	89	89	70-125	0	30
Tetryl	0.40	U	0.40	0.60	ug/l	70*	72	72-141	3	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	87	86	53-129	1	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	76-109	0	30
Batch number: 112160023A	Sample number(s): 6363167									
20b Formaldehyde 8315A	10	U	10.	50	ug/l	106	94	69-130	12	30
Batch number: 112200028A	Sample number(s): 6363165									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	108		85-115		
Batch number: 112200023A	Sample number(s): 6363167									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	68	82	35-84	19	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	92	88	51-128	4	30
PCB-1221	0.10	U	0.10	0.50	ug/l					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259584
Reported: 09/22/11 at 10:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	98	92	56-135	6	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 112270007A	Sample number(s): 6363164-6363166,6363168-6363170									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	83	72	36-106	14	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	91		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	105		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112150028A	Sample number(s): 6363168-6363170									
Ethanol	100	U	100.	500	ug/kg	95		71-129		
Isopropanol	100	U	100.	500	ug/kg	93		75-125		
Methanol	100	U	100.	500	ug/kg	85		68-129		
Batch number: 112160008A	Sample number(s): 6363168-6363170									
Diethylene glycol	5.0	U	5.0	10	mg/kg	99		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	95		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	89		75-125		
Batch number: 112170037A	Sample number(s): 6363167									
Ethanol	200	U	200.	1,000	ug/l	112		66-132		
Isopropanol	200	U	200.	1,000	ug/l	104		75-125		
Methanol	200	U	200.	1,000	ug/l	100		71-140		
Batch number: 112210001A	Sample number(s): 6363167									
Diethylene glycol	20	U	20.	200	mg/l	110	130*	78-126	17	20
Ethylene glycol	20	U	20.	200	mg/l	111	126*	80-124	13	20
Propylene glycol	20	U	20.	200	mg/l	105	125*	80-120	17	20
Batch number: 112170011A	Sample number(s): 6363167									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	75	80	75-125	7	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	89	95	75-125	7	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	79	84	75-125	6	20
Batch number: 112170012A	Sample number(s): 6363167									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	48*	50*	69-125	4	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	49*	49*	77-125	0	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	48*	46*	68-124	5	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	51*	46*	80-121	10	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259584
Reported: 09/22/11 at 10:48 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C8-C11)	0.10 U	0.10	0.60	mg/l	44*	44*	46-103	0	30
Batch number: 112220015A	Sample number(s): 6363168-6363170								
EFH (C12-C14)	0.40 U	0.40	1.2	mg/kg	96		71-118		
EFH (C15-C20)	0.40 U	0.40	1.2	mg/kg	102		76-122		
EFH (C21-C30)	0.40 U	0.40	1.2	mg/kg	105		69-132		
EFH (C30 - C40)	0.40 U	0.40	1.2	mg/kg	100		67-127		
EFH (C8-C11)	0.40 U	0.40	1.2	mg/kg	77		54-107		
Batch number: 112220032A	Sample number(s): 6363168-6363170								
m-Terphenyl	1.5 U	1.5	3.5	mg/kg	75		75-125		
o-Terphenyl	1.5 U	1.5	3.5	mg/kg	90		75-125		
p-Terphenyl	1.5 U	1.5	3.5	mg/kg	78		75-125		
Batch number: 112151848004	Sample number(s): 6363167								
Aluminum	0.0801 U	0.0801	0.200	mg/l	100	100	90-112	0	20
Boron	0.0024 J	0.0022	0.0500	mg/l	97	97	89-110	0	20
Calcium	0.0705 U	0.0705	0.200	mg/l	100	100	90-112	1	20
Iron	0.0141 U	0.0141	0.200	mg/l	101	101	90-112	0	20
Lithium	0.0076 U	0.0076	0.0200	mg/l	99	98	80-120	1	20
Magnesium	0.0067 U	0.0067	0.100	mg/l	100	100	89-110	1	20
Manganese	0.00044 U	0.00044	0.0050	mg/l	103	103	90-110	0	20
Phosphorus	0.0047 U	0.0047	0.100	mg/l	102	101	80-120	1	20
Potassium	0.0874 U	0.0874	0.500	mg/l	98	98	85-115	0	20
Sodium	0.0647 U	0.0647	1.00	mg/l	95	94	87-114	1	20
Strontium	0.00022 U	0.00022	0.0050	mg/l	102	101	90-110	1	20
Tin	0.0043 U	0.0043	0.0200	mg/l	98	98	90-110	1	20
Titanium	0.00046 U	0.00046	0.0100	mg/l	100	100	90-113	0	20
Zirconium	0.0069 J	0.0042	0.0500	mg/l	100	100	80-120	0	20
Batch number: 112155711002	Sample number(s): 6363164-6363166,6363168-6363170								
Mercury	0.0070 U	0.0070	0.100	mg/kg	95		72-128		
Batch number: 112156050002A	Sample number(s): 6363167								
Antimony	0.00042 U	0.00042	0.0010	mg/l	100	108	87-110	7	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	107	104	86-111	2	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	103	106	90-113	3	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	106	104	90-114	2	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	95	96	90-118	1	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	101	100	87-113	1	20
Copper	0.00038 U	0.00038	0.0020	mg/l	103	100	90-113	2	20
Lead	0.000080 U	0.00008 0	0.0010	mg/l	106	107	90-115	2	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	108	105	90-113	3	20
Silver	0.000098 U	0.00009 8	0.00050	mg/l	106	104	90-115	2	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	102	105	89-116	2	20
Vanadium	0.00018 U	0.00018	0.00050	mg/l	103	103	89-116	0	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	104	104	90-116	1	20
Batch number: 112156050002B	Sample number(s): 6363167								
Selenium	0.00027 U	0.00027	0.0020	mg/l	99	98	85-114	1	20
Batch number: 112156050002C	Sample number(s): 6363167								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	104	103	89-115	1	20
Batch number: 112156050002D	Sample number(s): 6363167								
Barium	0.00069 U	0.00069	0.0020	mg/l	103	106	88-113	3	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259584
Reported: 09/22/11 at 10:48 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112165713006	Sample number(s): 6363167								
Mercury	0.000026 U	0.00002 6	0.00020	mg/l	112	109	80-120	2	20
Batch number: 112171026001A	Sample number(s): 6363164-6363166,6363168-6363170								
Antimony	0.0740 U	0.0740	0.200	mg/kg	81		10-224		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	108		78-122		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	104		80-120		
Cadmium	0.0440 U	0.0440	0.100	mg/kg	106		81-119		
Chromium	0.120 U	0.120	0.400	mg/kg	113		77-123		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	102		80-119		
Copper	0.0800 U	0.0800	0.400	mg/kg	105		78-122		
Lead	0.0102 U	0.0102	0.200	mg/kg	100		77-123		
Nickel	0.100 U	0.100	0.400	mg/kg	109		80-120		
Silver	0.0142 U	0.0142	0.100	mg/kg	103		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	102		75-124		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	119		76-124		
Zinc	0.560 U	0.560	3.00	mg/kg	107		79-121		
Batch number: 112171026001B	Sample number(s): 6363164-6363166,6363168-6363170								
Selenium	0.0580 U	0.0580	0.400	mg/kg	103		77-123		
Batch number: 112171026001C	Sample number(s): 6363164-6363166,6363168-6363170								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	106		76-123		
Batch number: 112171026001D	Sample number(s): 6363164-6363166,6363168-6363170								
Barium	0.106 U	0.106	0.400	mg/kg	106		80-120		
Batch number: 112175708002	Sample number(s): 6363164-6363166,6363168-6363170								
Aluminum	6.05 U	6.05	20.0	mg/kg	152		42-158		
Boron	0.499 J	0.360	5.00	mg/kg	110		66-134		
Calcium	7.85 J	2.50	20.0	mg/kg	106		79-121		
Iron	3.78 J	2.61	20.0	mg/kg	132		51-149		
Lithium	0.62 U	0.62	2.0	mg/kg	102		80-120		
Magnesium	0.440 U	0.440	10.0	mg/kg	125		64-136		
Manganese	0.0360 U	0.0360	0.500	mg/kg	101		78-122		
Phosphorus	0.944 J	0.350	10.0	mg/kg	109		80-120		
Potassium	11.3 U	11.3	50.0	mg/kg	117		69-131		
Sodium	5.95 U	5.95	100	mg/kg	115		71-129		
Strontium	0.0480 J	0.0250	0.500	mg/kg	108		81-119		
Tin	1.71 J	0.320	10.0	mg/kg	99		74-126		
Titanium	0.0710 U	0.0710	1.00	mg/kg	182		40-186		
Zirconium	0.460 U	0.460	5.00	mg/kg	105		80-120		
Batch number: 11215196603C	Sample number(s): 6363167								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	108	108	90-110	0	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	101	101	90-110	0	20
Batch number: 11215281101A	Sample number(s): 6363167								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	97	110	85-115	13	20
Batch number: 11215281401A	Sample number(s): 6363167								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	94		90-110		
Batch number: 11220117101B	Sample number(s): 6363167								
16b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	95	96	90-110	1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259584
Reported: 09/22/11 at 10:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11221621201A	Sample number(s): 6363164-6363166,6363168-6363170									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	105		90-110		
Batch number: 11222284201A	Sample number(s): 6363164-6363166,6363168-6363170									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	97		85-115		
Batch number: 11223243201A	Sample number(s): 6363164-6363166,6363168-6363170									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	92		80-120		
Batch number: 11216039404A	Sample number(s): 6363164-6363166,6363168-6363170									
17a pH by 9045C						100		95-105		
Batch number: 11217020001A	Sample number(s): 6363167									
17b pH by 9040B						100	100	90-110	0	3
Batch number: 11222162401B	Sample number(s): 6363164-6363166,6363168-6363170									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11221SLC026	Sample number(s): 6363164-6363166,6363168-6363170 UNSPK: P359559								
Acenaphthene	92	94	63-105	2	30				
Acenaphthylene	93	95	67-114	2	30				
Anthracene	97	99	73-115	2	30				
Benzo(a)anthracene	102	105	59-128	3	30				
Benzo(a)pyrene	89	92	58-142	3	30				
Benzo(b)fluoranthene	116	118	54-163	2	30				
Benzo(g,h,i)perylene	47	47	33-141	0	30				
Benzo(k)fluoranthene	88	90	57-153	2	30				
Butylbenzylphthalate	125	128	57-173	3	30				
Di-n-butylphthalate	129	128	65-148	1	30				
Chrysene	101	103	67-123	2	30				
Dibenz(a,h)anthracene	62	63	22-133	1	30				
Diethylphthalate	85	88	70-136	4	30				
Dimethylphthalate	105	107	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	118	119	39-167	0	30				
Fluoranthene	105	110	51-149	5	30				
Fluorene	101	102	66-122	1	30				
Indeno(1,2,3-cd)pyrene	56	57	21-143	2	30				
1-Methylnaphthalene	88	89	72-123	1	30				
2-Methylnaphthalene	87	66	64-103	27	30				
Naphthalene	90	91	61-102	1	30				
N-Nitrosodimethylamine	95	91	48-113	4	30				
Di-n-octylphthalate	109	111	40-192	2	30				
Phenanthrene	96	97	62-122	1	30				
Pyrene	103	107	51-131	3	30				
Batch number: 11223SLD026	Sample number(s): 6363164-6363166,6363168-6363170 UNSPK: P361772								
Aniline	81	75	18-116	8	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259584
Reported: 09/22/11 at 10:48 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzidine	22*	23*	35-141	7	30				
Benzoic acid	84	31	10-173	91*	30				
Benzyl alcohol	109	95	67-115	13	30				
4-Bromophenyl-phenylether	94	101	67-129	7	30				
Carbazole	105	103	64-120	1	30				
4-Chloro-3-methylphenol	112	95	62-122	17	30				
4-Chloroaniline	86	64	13-107	30	30				
bis(2-Chloroethoxy)methane	96	99	75-104	3	30				
bis(2-Chloroethyl)ether	92	93	60-116	1	30				
bis(2-Chloroisopropyl)ether	78	83	55-142	7	30				
2-Chloronaphthalene	111	109	50-141	2	30				
2-Chlorophenol	102	97	73-121	5	30				
4-Chlorophenyl-phenylether	89	89	80-109	0	30				
Dibenzofuran	90	92	71-112	2	30				
1,2-Dichlorobenzene	67	73	66-108	9	30				
1,3-Dichlorobenzene	60*	69	63-109	13	30				
1,4-Dichlorobenzene	62	71	58-108	13	30				
3,3'-Dichlorobenzidine	85	90	28-109	6	30				
2,4-Dichlorophenol	101	96	66-123	5	30				
2,4-Dimethylphenol	103	97	68-118	6	30				
3,5-Dimethylphenol	115	102	71-127	12	30				
4,6-Dinitro-2-methylphenol	63	56	11-126	12	30				
2,4-Dinitrophenol	39	33	20-143	16	30				
2,4-Dinitrotoluene	96	92	56-129	4	30				
2,6-Dinitrotoluene	98	99	69-123	1	30				
1,2-Diphenylhydrazine	126	133*	71-129	6	30				
Hexachlorobenzene	88	97	77-114	10	30				
Hexachlorobutadiene	66	75	62-120	12	30				
Hexachlorocyclopentadiene	48	51	10-153	5	30				
Hexachloroethane	64	72	57-109	12	30				
Isophorone	102	100	73-102	2	30				
2-Methylphenol	118*	104	75-111	12	30				
4-Methylphenol	113	100	59-123	13	30				
2-Nitroaniline	101	101	67-125	0	30				
3-Nitroaniline	94	92	59-122	2	30				
4-Nitroaniline	92	77	41-109	17	30				
Nitrobenzene	92	97	57-125	5	30				
2-Nitrophenol	87	85	56-127	2	30				
4-Nitrophenol	96	88	37-129	8	30				
N-Nitroso-di-n-propylamine	102	100	60-116	2	30				
N-Nitrosodiphenylamine	100	106	71-122	5	30				
Pentachlorophenol	79	85	28-127	7	30				
Phenol	115	100	58-126	14	30				
Tetralin	0*	0*	70-130	0	30				
1,2,4-Trichlorobenzene	72	78	72-115	8	30				
2,4,5-Trichlorophenol	94	93	58-129	1	30				
2,4,6-Trichlorophenol	92	95	56-134	3	30				
Batch number: 11216A34A	Sample number(s): 6363168-6363170 UNSPK: P361772								
9a TPH by EPA 8015B Gas C5-C12	68	74	39-118	1	30				
Batch number: 112200028A	Sample number(s): 6363165 UNSPK: P355050								
6a Perchlorate EPA 6850	107	115	80-120	7	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259584
Reported: 09/22/11 at 10:48 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112270007A	Sample number(s): 6363164-6363166,6363168-6363170 UNSPK: P361772								
PCB-1016	80	85	29-146	5	50				
PCB-1260	77	90	39-149	13	50				
Batch number: 112150028A	Sample number(s): 6363168-6363170 UNSPK: P361772								
Ethanol	83	83	48-130	0	20				
Isopropanol	80	86	12-149	7	20				
Methanol	75	77	43-138	4	20				
Batch number: 112160008A	Sample number(s): 6363168-6363170 UNSPK: P361772								
Diethylene glycol	36*	49*	59-109	31*	20				
Ethylene glycol	55*	72	63-107	28*	20				
Propylene glycol	57*	75	63-107	26*	20				
Batch number: 112170037A	Sample number(s): 6363167 UNSPK: 6363167								
Ethanol	108	108	62-145	0	20				
Isopropanol	100	104	73-131	4	20				
Methanol	104	100	52-159	4	20				
Batch number: 112220015A	Sample number(s): 6363168-6363170 UNSPK: P361772								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	0*	0*	49-123	0	20				
EFH (C21-C30)	578 (2)	601 (2)	49-123	2	20				
EFH (C30 - C40)	-325 (2)	-314 (2)	49-123	0	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 112220032A	Sample number(s): 6363168-6363170 UNSPK: P361772								
m-Terphenyl	70*	73*	75-125	5	20				
o-Terphenyl	86	91	75-125	6	20				
p-Terphenyl	74*	76	75-125	4	20				
Batch number: 112155711002	Sample number(s): 6363164-6363166,6363168-6363170 UNSPK: P361772 BKG: P361772								
Mercury	100	97	65-135	1	20	0.0129 J	0.0083 J	43* (1)	20
Batch number: 112171026001A	Sample number(s): 6363164-6363166,6363168-6363170 UNSPK: P361772 BKG: P361772								
Antimony	42*	44*	75-125	4	20	0.148 J	0.139 J	6 (1)	20
Arsenic	139*	143*	75-125	1	20	5.14	5.84	13	20
Beryllium	108	116	75-125	4	20	0.719	0.785	9	20
Cadmium	130*	138*	75-125	5	20	0.283	0.326	14 (1)	20
Chromium	119	111	75-125	2	20	24.6	25.6	4	20
Cobalt	118	125	75-125	5	20	7.54	8.34	10	20
Copper	128*	137*	75-125	3	20	12.4	14.0	12	20
Lead	159*	165*	75-125	1	20	8.45	13.7	48*	20
Nickel	122	134*	75-125	4	20	17.5	18.1	4	20
Silver	123	131*	75-125	6	20	0.0469 J	0.0441 J	6 (1)	20
Thallium	112	132*	75-125	10	20	0.309	0.321	4 (1)	20
Vanadium	108 (2)	130 (2)	75-125	4	20	45.1	48.3	7	20
Zinc	174 (2)	180 (2)	75-125	1	20	68.9	77.0	11	20
Batch number: 112171026001B	Sample number(s): 6363164-6363166,6363168-6363170 UNSPK: P361772 BKG: P361772								
Selenium	111	118	75-125	6	20	0.120 J	0.119 J	1 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259584
Reported: 09/22/11 at 10:48 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112171026001C	Sample number(s): 6363164-6363166,6363168-6363170					UNSPK: P361772	BKG: P361772		
Molybdenum	119	127*	75-125	6	20	0.510	0.645	23*	20
Batch number: 112171026001D	Sample number(s): 6363164-6363166,6363168-6363170					UNSPK: P361772	BKG: P361772		
Barium	218 (2)	304 (2)	75-125	6	20	124	139	11	20
Batch number: 112175708002	Sample number(s): 6363164-6363166,6363168-6363170					UNSPK: P361772	BKG: P361772		
Aluminum	831 (2)	950 (2)	75-125	1	20	18,900	18,600	2	20
Boron	102	100	84-115	1	20	7.37	7.80	6 (1)	20
Calcium	-790 (2)	139 (2)	75-125	23*	20	16,900	13,900	20	20
Iron	-1590 (2)	-1481 (2)	75-125	1	20	21,000	20,700	2	20
Lithium	98	99	82-114	1	20	21.3	20.4	5	20
Magnesium	171 (2)	256 (2)	75-125	3	20	4,370	4,680	7	20
Manganese	116 (2)	87 (2)	75-125	4	20	288	327	13	20
Phosphorus	65*	93	75-125	7	20	303	300	1	20
Potassium	124	163*	75-125	9	20	2,680	2,810	5	20
Sodium	105	110	75-125	5	20	89.7 J	90.8 J	1 (1)	20
Strontium	97	100	75-115	3	20	29.3	28.1	4	20
Tin	88	89	80-110	1	20	2.59 J	2.43 J	6 (1)	20
Titanium	132 (2)	194 (2)	75-125	5	20	1,140	1,100	4	20
Zirconium	96	97	75-125	1	20	1.84 J	1.79 J	3 (1)	20
Batch number: 11215281401A	Sample number(s): 6363167					UNSPK: P363101	BKG: P363101		
3b Cr VI by EPA 7199	92		59-135			5.0 U	5.0 U	0 (1)	20
Batch number: 11221621201A	Sample number(s): 6363164-6363166,6363168-6363170					UNSPK: 6363164	BKG: 6363164		
11a Anions by 300.0 - Fluoride	101		80-120			11.4	14.7	26*	20
Batch number: 11222284201A	Sample number(s): 6363164-6363166,6363168-6363170					UNSPK: 6363164	BKG: 6363164		
7a Perchlorate EPA 314.0	37*		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11223243201A	Sample number(s): 6363164-6363166,6363168-6363170					UNSPK: P361772	BKG: P361772		
3a Cr VI by EPA 7199	85		75-125			0.55 J	0.86 J	45* (1)	20
Batch number: 11216039404A	Sample number(s): 6363164-6363166,6363168-6363170						BKG: 6363170		
17a pH by 9045C						7.40	7.43	0	3
Batch number: 11222162401B	Sample number(s): 6363164-6363166,6363168-6363170						BKG: 6363166		
Moisture Content by 160.3						13.2	12.8	3	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E112211AA

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259584
Reported: 09/22/11 at 10:48 AM

Surrogate Quality Control

	Toluene-d8
6363167	100
Blank	100
LCS	100
LCSD	101
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260B
Batch number: Y112202AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6363167	99	101	100	99
Blank	101	103	101	96
LCS	100	104	102	103
LCSD	100	103	102	102
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11218WAB026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6363167	54	36	84	90	91	86
Blank	54	49	84	91	90	88
LCS	64	54	87	94	92	82
LCSD	57	49	84	92	92	82
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11218WAC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6363167	105	97	105
Blank	94	92	103
LCS	111	96	102
LCSD	110	94	100
Limits:	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11221SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6363164	93	85	103
6363165	104	98	155*
6363166	92	81	109
6363168	85	79	99
6363169	99	90	107
6363170	96	88	116
Blank	95	88	106
LCS	93	85	97
MS	100	90	99
MSD	99	74	98

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259584
Reported: 09/22/11 at 10:48 AM

Surrogate Quality Control

Limits: 40-130 45-130 45-135

Analysis Name: 21b NDMA by 1625C
Batch number: 11221WAA026

	N-Nitrosodimethylamine-d6
6363167	172*
Blank	84
LCS	90
LCSD	93
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11223SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6363164	86	86	74	81	78	78
6363165	85	84	84	78	79	78
6363166	88	83	90	69	68	81
6363168	86	83	91	72	76	82
6363169	87	84	88	76	81	81
6363170	86	83	86	74	78	82
Blank	90	89	108	87	93	94
LCS	88	91	91	94	90	87
MS	113	102	82	88	81	78
MSD	101	102	80	91	89	80
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11216A34A

	Trifluorotoluene-F
6363168	89
6363169	84
6363170	89
Blank	94
LCS	91
MS	88
MSD	88
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11221A20A

	Trifluorotoluene-F
6363167	94
6363171	90
Blank	91
LCS	129
LCSD	131
Limits:	63-135

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259584
Reported: 09/22/11 at 10:48 AM

Surrogate Quality Control

Analysis Name: 20b Formaldehyde 8315A
Batch number: 112160023A

	Butyraldehyde
6363167	134
Blank	104
LCS	109
LCSD	90
Limits:	45-145

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 112200023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6363167	94	102
Blank	86	109
LCS	93	51
LCSD	90	86
Limits:	30-150	45-120

Analysis Name: 15b Energetics by 8330A
Batch number: 112200026A

	2-Nitro-m-xylene
6363167	97
Blank	102
LCS	101
LCSD	101
Limits:	50-134

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112270007A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6363164	85	91
6363165	89	89
6363166	88	93
6363168	100	91
6363169	90	94
6363170	97	110
Blank	96	117
LCS	95	102
LCSD	97	110
MS	91	91
MSD	94	97
Limits:	53-139	45-120

Analysis Name: 18a Alcohols by 8015B
Batch number: 112150028A

	Acetone
6363168	89
6363169	88

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259584
Reported: 09/22/11 at 10:48 AM

Surrogate Quality Control

6363170	89
Blank	94
LCS	94
MS	80
MSD	87
Limits:	42-138

Analysis Name: 19a Glycols by 8015B
Batch number: 112160008A

	Tetramethylene glycol
6363168	83
6363169	85
6363170	85
Blank	110
LCS	117
MS	90
MSD	87
Limits:	29-137

Analysis Name: 22b Terphenyls by 8015B
Batch number: 112170011A

	n-Triacontane-d62
6363167	79
Blank	81
LCS	75
LCSD	78
Limits:	50-150

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 112170012A

	Chlorobenzene	Orthoterphenyl
6363167	82	108
Blank	88	92
LCS	47	49*
LCSD	46	50*
Limits:	28-152	52-131

Analysis Name: 18b Alcohols by 8015B
Batch number: 112170037A

	Acetone
6363167	115
Blank	112
LCS	116
MS	126
MSD	129
Limits:	54-147

Analysis Name: 19b Glycols by 8015B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259584
Reported: 09/22/11 at 10:48 AM

Surrogate Quality Control

Batch number: 112210001A

	Tetramethylene glycol
6363167	116
Blank	120*
LCS	111
LCSD	124*
Limits:	77-119

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112220015A

	Chlorobenzene	Orthoterphenyl
6363168	74	88
6363169	81	94
6363170	81	93
Blank	81	95
LCS	85	98
MS	61	69
MSD	82	92
Limits:	37-125	47-145

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112220032A

	n-Triacontane-d62
6363168	73
6363169	71
6363170	75
Blank	77
LCS	76
MS	67
MSD	74
Limits:	50-150

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1259584 6363164-71

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/8020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	
Samplers Signatures:															
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers										
SL-160-SA5DN-SB-4.0-5.0	8.2.11	0846	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		
SL-160-SA5DN-SB-4.0-5.0	8.2.11	0846	SOIL	NONE	1-SS sleeve			X	X						
SL-162-SA5DN-SB-4.0-5.0	8.2.11	1400	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	
SL-162-SA5DN-SB-4.0-5.0	8.2.11	1400	SOIL	NONE	1-SS sleeve			X	X						
SL-162-SA5DN-SB-9.0-10.0	8.2.11	1515	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		
SL-162-SA5DN-SB-9.0-10.0	8.2.11	1515	SOIL	NONE	1-SS sleeve			X	X						
Relinquished by: (*Signature*)	Date/Time 08/02/2011 / 1630		Received for Laboratory by: (*Signature*)												Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8754 3340 3334; 8754 3340 3345												

13013 1259584 63631164-71

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 3270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB-SA6-SB-080211	8/2/11	1300	WATER	NONE	10-1 liter ambers			X	X	X							X			X	X		X			
EB-SA6-SB-080211	8/2/11	1300	WATER	NONE	1-500 mL poly		X				X	X	X													
EB-SA6-SB-080211	8/2/11	1300	WATER	HNO3	1-500 mL poly	X																				
EB-SA6-SB-080211	8/2/11	1300	WATER	NaOH	1-500 mL glass																	X				
EB-SA6-SB-080211	8/2/11	1300	WATER	NONE	1-250 mL glass														X							
EB-SA6-SB-080211	8/2/11	1300	WATER	HCl	11-40 mL vials									X	X	X									X	
EB-SA6-SB-080211	8/2/11	1300	WATER	NONE	4-40 mL vials													X						X		
SL-128-SA6-SB-4.5	8/2/11	1220	SOIL	NONE	2-Encores											X										
SL-128-SA6-SB-4.0-5.0	8/2/11	1225	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X				X						X	X	X	
SL-128-SA6-SB-8.0	8/2/11	1230	SOIL	NONE	2-Encores											X										
SL-128-SA6-SB-7.5-8.5	8/2/11	1235	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X				X						X	X	X	
SL-145-SA6-SB-4.0	8/2/11	0825	SOIL	NONE	2-Encores											X										
SL-145-SA6-SB-3.5-4.5	8/2/11	0828	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X				X						X	X	X	
TB-080211	8/2/11	1430	WATER	HCl	2-40 mL vials											X										

Relinquished by: (*Signature*)	Date/Time 08/01/2011 / 1630	Received for Laboratory by: (*Signature*)
Received by: (*Signature*)	Date/Time 8/1/11 1630	Airbill No.(s) 8754 3340 3334; 8754 3340 3345

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 25, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 08/03/2011
Group Number: 1259585
SDG: DX123
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-160-SA5DN-SB-4.0-5.0 Soil	6363172
SL-162-SA5DN-SB-4.0-5.0 Soil	6363173
SL-162-SA5DN-SB-9.0-10.0 Soil	6363174
EB-SA6-SB-080211 Water	6363175
SL-128-SA6-SB-4.0-5.0 Soil	6363176
SL-128-SA6-SB-7.5-8.5 Soil	6363177
SL-145-SA6-SB-3.5-4.5 Soil	6363178

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: SL-160-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5DN-SB-4.0-5.0

LLI Sample # SW 6363172
LLI Group # 1259585
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 08:46

Submitted: 08/03/2011 10:05
Reported: 08/25/2011 12:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D6045 SDG#: DX123-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-160-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5DN-SB-4.0-5.0

LLI Sample # SW 6363172
LLI Group # 1259585
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 08:46

Submitted: 08/03/2011 10:05
Reported: 08/25/2011 12:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D6045 SDG#: DX123-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0214 JBQ	0.0173	1.11	1
11031	12378-PeCDD	40321-76-4	0.0179 JBQ	0.0179	5.54	1
11031	123478-HxCDD	39227-28-6	0.0144 U	0.0144	5.54	1
11031	123678-HxCDD	57653-85-7	0.0207 JBQ	0.0151	5.54	1
11031	123789-HxCDD	19408-74-3	0.0490 JBQ	0.0135	5.54	1
11031	1234678-HpCDD	35822-46-9	0.305 JB	0.0193	5.54	1
11031	OCDD	3268-87-9	0.896 JB	0.0298	11.1	1
11031	2378-TCDF	51207-31-9	0.0173 JBQ	0.0164	1.11	1
11031	12378-PeCDF	57117-41-6	0.0293 JBQ	0.0109	5.54	1
11031	23478-PeCDF	57117-31-4	0.0411 JBQ	0.0116	5.54	1
11031	123478-HxCDF	70648-26-9	0.0343 JBQ	0.00946	5.54	1
11031	123678-HxCDF	57117-44-9	0.0316 JBQ	0.00800	5.54	1
11031	123789-HxCDF	72918-21-9	0.0438 JBQ	0.0114	5.54	1
11031	234678-HxCDF	60851-34-5	0.0225 JB	0.00912	5.54	1
11031	1234678-HpCDF	67562-39-4	0.0524 JB	0.00608	5.54	1
11031	1234789-HpCDF	55673-89-7	0.0455 JB	0.0125	5.54	1
11031	OCDF	39001-02-0	0.176 JBQ	0.0304	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	47	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-160-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5DN-SB-4.0-5.0

LLI Sample # SW 6363172
LLI Group # 1259585
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 08:46

Submitted: 08/03/2011 10:05
Reported: 08/25/2011 12:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D6045 SDG#: DX123-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-160-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5DN-SB-4.0-5.0

LLI Sample # SW 6363172
LLI Group # 1259585
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 08:46

Submitted: 08/03/2011 10:05
Reported: 08/25/2011 12:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D6045 SDG#: DX123-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11227002	08/18/2011 22:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11227002	08/15/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401B	08/10/2011 22:19	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-162-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SB-4.0-5.0

LLI Sample # SW 6363173
LLI Group # 1259585
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 14:00

Submitted: 08/03/2011 10:05
Reported: 08/25/2011 12:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D6245 SDG#: DX123-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-162-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SB-4.0-5.0

LLI Sample # SW 6363173
LLI Group # 1259585
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 14:00

Submitted: 08/03/2011 10:05
Reported: 08/25/2011 12:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D6245 SDG#: DX123-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0174	U	0.0174	1.10	1
11031	12378-PeCDD	40321-76-4	0.0438	JB	0.0231	5.50	1
11031	123478-HxCDD	39227-28-6	0.0164	U	0.0164	5.50	1
11031	123678-HxCDD	57653-85-7	0.0792	JBQ	0.0175	5.50	1
11031	123789-HxCDD	19408-74-3	0.168	JB	0.0151	5.50	1
11031	1234678-HpCDD	35822-46-9	0.395	JB	0.0258	5.50	1
11031	OCDD	3268-87-9	1.56	JB	0.0318	11.0	1
11031	2378-TCDF	51207-31-9	0.0211	U	0.0211	1.10	1
11031	12378-PeCDF	57117-41-6	0.0989	JB	0.0140	5.50	1
11031	23478-PeCDF	57117-31-4	0.0534	JB	0.0153	5.50	1
11031	123478-HxCDF	70648-26-9	0.0249	JBQ	0.0144	5.50	1
11031	123678-HxCDF	57117-44-9	0.0243	JBQ	0.0118	5.50	1
11031	123789-HxCDF	72918-21-9	0.311	JB	0.0172	5.50	1
11031	234678-HxCDF	60851-34-5	0.0323	JBQ	0.0134	5.50	1
11031	1234678-HpCDF	67562-39-4	0.0600	JBQ	0.00769	5.50	1
11031	1234789-HpCDF	55673-89-7	0.0411	JBQ	0.0161	5.50	1
11031	OCDF	39001-02-0	0.185	JBQ	0.0479	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	54	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	40	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-162-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SB-4.0-5.0

LLI Sample # SW 6363173
LLI Group # 1259585
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 14:00

Submitted: 08/03/2011 10:05
Reported: 08/25/2011 12:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D6245 SDG#: DX123-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-162-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SB-4.0-5.0

LLI Sample # SW 6363173
LLI Group # 1259585
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 14:00

Submitted: 08/03/2011 10:05
Reported: 08/25/2011 12:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D6245 SDG#: DX123-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11227002	08/18/2011 23:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11227002	08/15/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401B	08/10/2011 22:19	Scott W Freisher	1

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Analysis Report

Sample Description: SL-162-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SB-9.0-10.0

LLI Sample # SW 6363174
LLI Group # 1259585
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 15:15

Submitted: 08/03/2011 10:05
Reported: 08/25/2011 12:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D6291 SDG#: DX123-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-162-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SB-9.0-10.0

LLI Sample # SW 6363174
LLI Group # 1259585
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 15:15

Submitted: 08/03/2011 10:05
Reported: 08/25/2011 12:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D6291 SDG#: DX123-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0286 JBQ	0.0191	1.14	1
11031	12378-PeCDD	40321-76-4	0.0214 U	0.0214	5.69	1
11031	123478-HxCDD	39227-28-6	0.0162 U	0.0162	5.69	1
11031	123678-HxCDD	57653-85-7	0.0564 JB	0.0164	5.69	1
11031	123789-HxCDD	19408-74-3	0.0745 JB	0.0164	5.69	1
11031	1234678-HpCDD	35822-46-9	0.330 JB	0.0256	5.69	1
11031	OCDD	3268-87-9	1.15 JB	0.0338	11.4	1
11031	2378-TCDF	51207-31-9	0.0264 U	0.0264	1.14	1
11031	12378-PeCDF	57117-41-6	0.0331 JBQ	0.0145	5.69	1
11031	23478-PeCDF	57117-31-4	0.0426 JBQ	0.0154	5.69	1
11031	123478-HxCDF	70648-26-9	0.0268 JB	0.0126	5.69	1
11031	123678-HxCDF	57117-44-9	0.0250 JB	0.0104	5.69	1
11031	123789-HxCDF	72918-21-9	0.0851 JB	0.0142	5.69	1
11031	234678-HxCDF	60851-34-5	0.0272 JB	0.0120	5.69	1
11031	1234678-HpCDF	67562-39-4	0.0710 JB	0.00806	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0247 JB	0.0166	5.69	1
11031	OCDF	39001-02-0	0.189 JBQ	0.0397	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	50	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-162-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SB-9.0-10.0

LLI Sample # SW 6363174
LLI Group # 1259585
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 15:15

Submitted: 08/03/2011 10:05
Reported: 08/25/2011 12:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D6291 SDG#: DX123-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-162-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SB-9.0-10.0

LLI Sample # SW 6363174
LLI Group # 1259585
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 15:15

Submitted: 08/03/2011 10:05
Reported: 08/25/2011 12:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D6291 SDG#: DX123-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11227002	08/19/2011 00:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11227002	08/15/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401B	08/10/2011 22:19	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB-SA6-SB-080211 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-080211

LLI Sample # WW 6363175
LLI Group # 1259585
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 13:00

Submitted: 08/03/2011 10:05
Reported: 08/25/2011 12:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DB802 SDG#: DX123-14EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.141	U	0.141	2.07	1
10915	12378-PeCDD	40321-76-4	0.169	U	0.169	10.4	1
10915	123478-HxCDD	39227-28-6	0.127	U	0.127	10.4	1
10915	123678-HxCDD	57653-85-7	0.255	JBQ	0.132	10.4	1
10915	123789-HxCDD	19408-74-3	0.189	JBQ	0.118	10.4	1
10915	1234678-HpCDD	35822-46-9	3.60	JBQ	0.181	10.4	1
10915	OCDD	3268-87-9	7.82	JB	0.226	20.7	1
10915	2378-TCDF	51207-31-9	0.136	JQ	0.133	2.07	1
10915	12378-PeCDF	57117-41-6	0.117	JBQ	0.0969	10.4	1
10915	23478-PeCDF	57117-31-4	0.0972	U	0.0972	10.4	1
10915	123478-HxCDF	70648-26-9	0.177	JBQ	0.0557	10.4	1
10915	123678-HxCDF	57117-44-9	0.0534	U	0.0534	10.4	1
10915	123789-HxCDF	72918-21-9	0.0584	JBQ	0.0577	10.4	1
10915	234678-HxCDF	60851-34-5	0.0529	U	0.0529	10.4	1
10915	1234678-HpCDF	67562-39-4	0.333	JB	0.0620	10.4	1
10915	1234789-HpCDF	55673-89-7	0.121	JBQ	0.0716	10.4	1
10915	OCDF	39001-02-0	0.709	JBQ	0.182	20.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	89	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	95	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	99	28 - 130
13C12-1234678-HpCDD	99	23 - 140
13C12-OCDD	101	17 - 157
13C12-2378-TCDF	95	24 - 169
13C12-12378-PeCDF	102	24 - 185
13C12-23478-PeCDF	98	21 - 178
13C12-123478-HxCDF	98	26 - 152
13C12-123678-HxCDF	99	26 - 123
13C12-234678-HxCDF	99	28 - 136
13C12-123789-HxCDF	102	29 - 147
13C12-1234678-HpCDF	104	28 - 143
13C12-1234789-HpCDF	102	26 - 138
13C12-OCDF	100	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA6-SB-080211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB-080211

LLI Sample # WW 6363175
LLI Group # 1259585
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 13:00

Submitted: 08/03/2011 10:05
Reported: 08/25/2011 12:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DB802 SDG#: DX123-14EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11220001	08/11/2011 11:47	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11220001	08/08/2011 08:10	Ginelle L Haines	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-128-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SB-4.0-5.0

LLI Sample # SW 6363176
LLI Group # 1259585
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 12:25

Submitted: 08/03/2011 10:05
Reported: 08/25/2011 12:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2845 SDG#: DX123-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-128-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SB-4.0-5.0

LLI Sample # SW 6363176
LLI Group # 1259585
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 12:25

Submitted: 08/03/2011 10:05
Reported: 08/25/2011 12:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2845 SDG#: DX123-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0160 U	0.0160	1.04	1
11031	12378-PeCDD	40321-76-4	0.0392 JBQ	0.0165	5.21	1
11031	123478-HxCDD	39227-28-6	0.0391 JBQ	0.0222	5.21	1
11031	123678-HxCDD	57653-85-7	0.222 JB	0.0227	5.21	1
11031	123789-HxCDD	19408-74-3	0.117 JB	0.0205	5.21	1
11031	1234678-HpCDD	35822-46-9	4.38 JB	0.0411	5.21	1
11031	OCDD	3268-87-9	40.1 B	0.0249	10.4	1
11031	2378-TCDF	51207-31-9	0.0201 JBQ	0.0174	1.04	1
11031	12378-PeCDF	57117-41-6	0.0559 JBQ	0.0148	5.21	1
11031	23478-PeCDF	57117-31-4	0.294 JBQ	0.0145	5.21	1
11031	123478-HxCDF	70648-26-9	0.847 JB	0.0363	5.21	1
11031	123678-HxCDF	57117-44-9	0.185 JB	0.0313	5.21	1
11031	123789-HxCDF	72918-21-9	0.0953 JB	0.0398	5.21	1
11031	234678-HxCDF	60851-34-5	0.157 JB	0.0341	5.21	1
11031	1234678-HpCDF	67562-39-4	1.43 JB	0.0151	5.21	1
11031	1234789-HpCDF	55673-89-7	0.199 JB	0.0267	5.21	1
11031	OCDF	39001-02-0	1.48 JB	0.0351	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	52	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-128-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SB-4.0-5.0

LLI Sample # SW 6363176
LLI Group # 1259585
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 12:25

Submitted: 08/03/2011 10:05
Reported: 08/25/2011 12:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2845 SDG#: DX123-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-128-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SB-4.0-5.0

LLI Sample # SW 6363176
LLI Group # 1259585
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 12:25

Submitted: 08/03/2011 10:05
Reported: 08/25/2011 12:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2845 SDG#: DX123-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11227002	08/19/2011 01:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11227002	08/15/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401B	08/10/2011 22:19	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-128-SA6-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SB-7.5-8.5

LLI Sample # SW 6363177
LLI Group # 1259585
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 12:35

Submitted: 08/03/2011 10:05
Reported: 08/25/2011 12:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2878 SDG#: DX123-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-128-SA6-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SB-7.5-8.5

LLI Sample # SW 6363177
LLI Group # 1259585
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 12:35

Submitted: 08/03/2011 10:05
Reported: 08/25/2011 12:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2878 SDG#: DX123-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0137 U	0.0137	1.07	1
11031	12378-PeCDD	40321-76-4	0.0419 JBQ	0.0173	5.35	1
11031	123478-HxCDD	39227-28-6	0.0316 JB	0.0196	5.35	1
11031	123678-HxCDD	57653-85-7	0.152 JB	0.0192	5.35	1
11031	123789-HxCDD	19408-74-3	0.144 JBQ	0.0199	5.35	1
11031	1234678-HpCDD	35822-46-9	2.66 JB	0.0356	5.35	1
11031	OCDD	3268-87-9	31.5 B	0.0227	10.7	1
11031	2378-TCDF	51207-31-9	0.0477 JBQ	0.0226	1.07	1
11031	12378-PeCDF	57117-41-6	0.0833 JBQ	0.0138	5.35	1
11031	23478-PeCDF	57117-31-4	0.224 JB	0.0148	5.35	1
11031	123478-HxCDF	70648-26-9	0.592 JB	0.0409	5.35	1
11031	123678-HxCDF	57117-44-9	0.155 JB	0.0337	5.35	1
11031	123789-HxCDF	72918-21-9	0.121 JBQ	0.0390	5.35	1
11031	234678-HxCDF	60851-34-5	0.169 JB	0.0360	5.35	1
11031	1234678-HpCDF	67562-39-4	1.27 JB	0.0121	5.35	1
11031	1234789-HpCDF	55673-89-7	0.144 JB	0.0215	5.35	1
11031	OCDF	39001-02-0	1.21 JB	0.0364	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	52	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-128-SA6-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SB-7.5-8.5

LLI Sample # SW 6363177
LLI Group # 1259585
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 12:35

Submitted: 08/03/2011 10:05
Reported: 08/25/2011 12:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2878 SDG#: DX123-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-128-SA6-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA6-SB-7.5-8.5

LLI Sample # SW 6363177
LLI Group # 1259585
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 12:35

Submitted: 08/03/2011 10:05
Reported: 08/25/2011 12:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2878 SDG#: DX123-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11227002	08/19/2011 02:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11227002	08/15/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401B	08/10/2011 22:19	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-145-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA6-SB-3.5-4.5

LLI Sample # SW 6363178
LLI Group # 1259585
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 08:28

Submitted: 08/03/2011 10:05
Reported: 08/25/2011 12:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4534 SDG#: DX123-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-145-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA6-SB-3.5-4.5

LLI Sample # SW 6363178
LLI Group # 1259585
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 08:28

Submitted: 08/03/2011 10:05
Reported: 08/25/2011 12:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4534 SDG#: DX123-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0142 U	0.0142	1.06	1
11031	12378-PeCDD	40321-76-4	0.0335 JBQ	0.0140	5.30	1
11031	123478-HxCDD	39227-28-6	0.0141 JBQ	0.0125	5.30	1
11031	123678-HxCDD	57653-85-7	0.0242 JBQ	0.0127	5.30	1
11031	123789-HxCDD	19408-74-3	0.0504 JB	0.0121	5.30	1
11031	1234678-HpCDD	35822-46-9	0.247 JBQ	0.0171	5.30	1
11031	OCDD	3268-87-9	0.711 JB	0.0233	10.6	1
11031	2378-TCDF	51207-31-9	0.0154 JBQ	0.0137	1.06	1
11031	12378-PeCDF	57117-41-6	0.0219 JB	0.00947	5.30	1
11031	23478-PeCDF	57117-31-4	0.0392 JBQ	0.00990	5.30	1
11031	123478-HxCDF	70648-26-9	0.0196 JB	0.00883	5.30	1
11031	123678-HxCDF	57117-44-9	0.0239 JB	0.00721	5.30	1
11031	123789-HxCDF	72918-21-9	0.0509 JBQ	0.0100	5.30	1
11031	234678-HxCDF	60851-34-5	0.0125 JBQ	0.0101	5.30	1
11031	1234678-HpCDF	67562-39-4	0.0462 JBQ	0.00527	5.30	1
11031	1234789-HpCDF	55673-89-7	0.0211 JBQ	0.0110	5.30	1
11031	OCDF	39001-02-0	0.110 JBQ	0.0228	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	60	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	54	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-145-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA6-SB-3.5-4.5

LLI Sample # SW 6363178
LLI Group # 1259585
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 08:28

Submitted: 08/03/2011 10:05
Reported: 08/25/2011 12:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4534 SDG#: DX123-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-145-SA6-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA6-SB-3.5-4.5

LLI Sample # SW 6363178
LLI Group # 1259585
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/02/2011 08:28

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Reported: 08/25/2011 12:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4534 SDG#: DX123-17*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11227002	08/19/2011 03:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11227002	08/15/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11222162401B	08/10/2011 22:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259585
Reported: 08/25/11 at 12:08 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11222162401B	Sample number(s): 6363172-6363174,6363176-6363178									
Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11220001	Sample number(s): 6363175									
2378-TCDD	0.152	U	0.152	2.00	pg/l	94		67-158		
12378-PeCDD	0.290	J	0.185	10.0	pg/l	99		70-142		
123478-HxCDD	0.145	U	0.145	10.0	pg/l	103		70-164		
123678-HxCDD	0.448	J	0.147	10.0	pg/l	101		76-134		
123789-HxCDD	0.265	J	0.137	10.0	pg/l	99		64-162		
1234678-HpCDD	3.70	J	0.288	10.0	pg/l	100		70-140		
OCDD	9.52	J	0.333	20.0	pg/l	105		78-144		
2378-TCDF	0.166	U	0.166	2.00	pg/l	97		75-158		
12378-PeCDF	0.198	J	0.117	10.0	pg/l	101		80-134		
23478-PeCDF	0.517	J	0.106	10.0	pg/l	100		68-160		
123478-HxCDF	0.230	J	0.0795	10.0	pg/l	104		72-134		
123678-HxCDF	0.0744	U	0.0744	10.0	pg/l	104		84-130		
123789-HxCDF	0.242	J	0.0847	10.0	pg/l	102		78-130		
234678-HxCDF	0.227	J	0.0757	10.0	pg/l	103		70-156		
1234678-HpCDF	0.669	J	0.0925	10.0	pg/l	109		82-122		
1234789-HpCDF	0.287	J	0.106	10.0	pg/l	101		78-138		
OCDF	1.03	J	0.216	20.0	pg/l	104		63-170		
Batch number: 11227002	Sample number(s): 6363172-6363174,6363176-6363178									
2378-TCDD	0.0389	J	0.0170	1.00	ng/kg	100		67-158		
12378-PeCDD	0.117	J	0.0168	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0633	J	0.0158	5.00	ng/kg	100		70-164		
123678-HxCDD	0.0625	J	0.0158	5.00	ng/kg	97		76-134		
123789-HxCDD	0.0795	J	0.0147	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.291	J	0.0203	5.00	ng/kg	95		70-140		
OCDD	0.620	J	0.0210	10.0	ng/kg	98		78-144		
2378-TCDF	0.0485	J	0.0151	1.00	ng/kg	100		75-158		
12378-PeCDF	0.135	J	0.0141	5.00	ng/kg	97		80-134		
23478-PeCDF	0.133	J	0.0138	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0930	J	0.0122	5.00	ng/kg	99		72-134		
123678-HxCDF	0.0813	J	0.0107	5.00	ng/kg	98		84-130		
123789-HxCDF	0.0433	J	0.0134	5.00	ng/kg	98		78-130		
234678-HxCDF	0.0641	J	0.0109	5.00	ng/kg	97		70-156		
1234678-HpCDF	0.0805	J	0.00830	5.00	ng/kg	97		82-122		
1234789-HpCDF	0.0937	J	0.0128	5.00	ng/kg	95		78-138		
OCDF	0.171	J	0.0247	10.0	ng/kg	97		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259585
Reported: 08/25/11 at 12:08 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11222162401B	Sample number(s): 6363172-6363174,6363176-6363178					BKG: P363166			
Moisture Content by 160.3						13.2	12.8	3	20
Batch number: 11227002	Sample number(s): 6363172-6363174,6363176-6363178					UNSPK: P361790			
2378-TCDD	97	97	67-158	1	25				
12378-PeCDD	110	99	70-142	10	25				
123478-HxCDD	96	98	70-164	2	25				
123678-HxCDD	93	94	76-134	1	25				
123789-HxCDD	95	97	64-162	2	25				
1234678-HpCDD	101	93	70-140	5	25				
OCDD	99	70*	78-144	8	25				
2378-TCDF	95	95	75-158	1	25				
12378-PeCDF	93	96	80-134	3	25				
23478-PeCDF	93	94	68-160	1	25				
123478-HxCDF	95	97	72-134	2	25				
123678-HxCDF	96	97	84-130	1	25				
123789-HxCDF	96	96	78-130	1	25				
234678-HxCDF	95	95	70-156	0	25				
1234678-HpCDF	94	96	82-122	2	25				
1234789-HpCDF	93	93	78-138	1	25				
OCDF	94	95	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11220001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6363175	89	98	98	99	99	102
Blank	85	92	94	96	98	90
OPR	81	88	89	88	93	88
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6363175	104	102	100	93	95	93
Blank	79	74	69	80	84	81
OPR	83	76	69	80	83	81
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259585
Reported: 08/25/11 at 12:08 PM

Surrogate Quality Control

6363175	99	99	101	95	102
Blank	84	70	63	92	90
OPR	83	72	67	85	91
Limits:	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11227002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6363172	67	68	67	76	68	57
6363173	72	64	61	73	64	54
6363174	72	70	69	79	69	61
6363176	71	75	68	76	69	66
6363177	74	72	65	73	67	64
6363178	72	67	67	78	60	62
Blank	61	65	62	70	66	61
MS	103	102	69	70	72	72
MSD	82	80	75	78	75	70
OPR	69	74	66	71	70	68
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6363172	94	53	47	74	79	77
6363173	91	48	40	74	78	75
6363174	100	55	50	81	84	84
6363176	95	59	52	84	79	77
6363177	90	58	52	81	79	80
6363178	96	52	54	76	86	84
Blank	88	62	58	74	78	77
MS	75	70	66	97	83	83
MSD	81	70	67	85	83	83
OPR	84	68	66	82	80	79
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6363172	77	77	73	63	77
6363173	80	74	69	64	76
6363174	84	83	81	66	78
6363176	80	82	79	65	80
6363177	80	81	78	65	81
6363178	83	84	80	65	76
Blank	78	76	80	59	69
MS	83	82	80	95	107
MSD	82	86	81	77	83
OPR	80	86	82	62	75
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1259585 636872-78

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Lee Zeller

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	Other Instructions and Notes
SL-160-SA5DN-SB-4.0-5.0	8.2.11	0846	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		
SL-160-SA5DN-SB-4.0-5.0	8.2.11	0846	SOIL	NONE	1-SS sleeve			X	X						
SL-162-SA5DN-SB-4.0-5.0	8.2.11	1400	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	
SL-162-SA5DN-SB-4.0-5.0	8.2.11	1400	SOIL	NONE	1-SS sleeve			X	X						
SL-162-SA5DN-SB-9.0-10.0	8.2.11	1515	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		
SL-162-SA5DN-SB-9.0-10.0	8.2.11	1515	SOIL	NONE	1-SS sleeve			X	X						

Relinquished by: (*Signature*)	Date/Time 08/02/2011 / 1630	Received for Laboratory by: (*Signature*)	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 8/3/11 1005	Airbill No.(s) 8754 3340 3334; 8754 3340 3345	

13013 1259585 6363172-78

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Pamela Hartman

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS								Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 3270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
EB-SA6-SB-080211	8/2/11	1300	WATER	NONE	10-1 liter ambers			X	X	X							X			X	X		X		
EB-SA6-SB-080211	8/2/11	1300	WATER	NONE	1-500 mL poly		X				X	X	X												
EB-SA6-SB-080211	8/2/11	1300	WATER	HNO3	1-500 mL poly	X																			
EB-SA6-SB-080211	8/2/11	1300	WATER	NaOH	1-500 mL glass																	X			
EB-SA6-SB-080211	8/2/11	1300	WATER	NONE	1-250 mL glass														X						
EB-SA6-SB-080211	8/2/11	1300	WATER	HCl	11-40 mL vials									X	X	X									X
EB-SA6-SB-080211	8/2/11	1300	WATER	NONE	4-40 mL vials													X					X		
SL-128-SA6-SB-4.5	8/2/11	1220	SOIL	NONE	2-Encores											X									
SL-128-SA6-SB-4.0-5.0	8/2/11	1225	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X				X						X	X	X
SL-128-SA6-SB-8.0	8/2/11	1230	SOIL	NONE	2-Encores											X									
SL-128-SA6-SB-7.5-8.5	8/2/11	1235	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X				X						X	X	X
SL-145-SA6-SB-4.0	8/2/11	0825	SOIL	NONE	2-Encores											X									
SL-145-SA6-SB-3.5-4.5	8/2/11	0828	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X				X						X	X	X
TB-080211	8/2/11	1430	WATER	HCl	2-40 mL vials											X									

Relinquished by: (*Signature*) — Date/Time: 08/01/2011 / 1630 — Received for Laboratory by: (*Signature*)

Received by: (*Signature*) — Date/Time: 8/2/11 1000 — Airbill No.(s): 8754 3340 3334; 8754 3340 3345

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

September 05, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 08/04/2011
Group Number: 1259850
SDG: DE215
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-002-SA6-SB-4.0-5.0 Soil	6364584
SL-002-SA6-SB-9.0-10.0 Soil	6364585
SL-003-SA6-SB-4.0-5.0 Soil	6364586
SL-003-SA6-SB-8.5-9.5 Soil	6364587
SL-004-SA6-SB-1.5-2.5 Soil	6364588
SL-011-SA6-SB-0.5-1.5 Soil	6364589
EB23-SA5DN-SB-080311 Water	6364590
SL-188-SA5DN-SB-4.0-5.0 Soil	6364591
SL-188-SA5DN-SB-9.0-10.0 Soil	6364592
SL-193-SA5DN-SB-4.0-5.0 Soil	6364593
SL-193-SA5DN-SB-9.0-10.0 Soil	6364594

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-002-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA6-SB-4.0-5.0

LLI Sample # SW 6364584
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 14:30

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1501 SDG#: DE215-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-002-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA6-SB-4.0-5.0

LLI Sample # SW 6364584
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 14:30

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1501 SDG#: DE215-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	190	U	190	190		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.9		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.8		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	4.9		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.81	J	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.5	J	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	1.8	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.8	J	6.8	20		1
10138	Fluoranthene	206-44-0	2.3		0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.84	J	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	2.9		0.75	1.9		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.6	U	5.6	19		5
10225	Aroclor 5442	12642-23-8	5.6	U	5.6	19		5
10225	Aroclor 5460	11126-42-4	5.6	U	5.6	19		5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.6		5
10225	PCB-1221	11104-28-2	1.9	U	1.9	9.6		5
10225	PCB-1232	11141-16-5	1.9	U	1.9	9.6		5
10225	PCB-1242	53469-21-9	1.9	U	1.9	9.6		5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.6		5
10225	PCB-1254	11097-69-1	1.9	U	1.9	9.6		5
10225	PCB-1260	11096-82-5	73		2.2	9.6		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-002-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA6-SB-4.0-5.0

LLI Sample # SW 6364584
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 14:30

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1501 SDG#: DE215-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.6		5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.6		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,400		6.76	22.3		1
07914	Boron	7440-42-8	8.10		0.402	5.59		1
01650	Calcium	7440-70-2	19,500		2.79	22.3		1
01654	Iron	7439-89-6	23,700		2.92	22.3		1
01656	Lithium	7439-93-2	24.4		0.69	2.2		1
01657	Magnesium	7439-95-4	4,810		0.492	11.2		1
06958	Manganese	7439-96-5	257		0.0402	0.559		1
10145	Phosphorus	7723-14-0	277		0.391	11.2		1
01662	Potassium	7440-09-7	2,490		12.6	55.9		1
01667	Sodium	7440-23-5	172		6.65	112		1
07968	Strontium	7440-24-6	49.6		0.0279	0.559		1
06969	Tin	7440-31-5	2.55	J	0.358	11.2		1
06970	Titanium	7440-32-6	1,060		0.0793	1.12		1
10146	Zirconium	7440-67-7	1.17	J	0.514	5.59		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.101	J	0.0819	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.38		0.0885	0.443		2
06126	Barium	7440-39-3	102		0.117	0.443		2
06127	Beryllium	7440-41-7	0.882		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.183		0.0487	0.111		2
06131	Chromium	7440-47-3	23.1		0.133	0.443		2
06132	Cobalt	7440-48-4	6.70		0.0221	0.111		2
06133	Copper	7440-50-8	9.92		0.0885	0.443		2
06135	Lead	7439-92-1	8.29		0.0113	0.221		2
06138	Molybdenum	7439-98-7	0.959		0.0553	0.111		2
06139	Nickel	7440-02-0	12.4		0.111	0.443		2
06141	Selenium	7782-49-2	0.121	J	0.0642	0.443		2
06142	Silver	7440-22-4	0.0516	J	0.0157	0.111		2
06145	Thallium	7440-28-0	0.315		0.0332	0.111		2
06148	Vanadium	7440-62-2	47.8		0.0243	0.111		2
06149	Zinc	7440-66-6	77.3		0.620	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0990	J	0.0079	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.7		0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA6-SB-4.0-5.0

LLI Sample # SW 6364584
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 14:30

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1501 SDG#: DE215-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.50	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11223SLE026	08/27/2011 22:15	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11223SLG026	08/27/2011 02:05	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11223SLG026	08/12/2011 06:45	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11223SLE026	08/12/2011 06:15	Katheryne V Sponheimer	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112200028A	08/10/2011 15:03	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112270031A	08/18/2011 02:13	Sarah M Snyder	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112270031A	08/16/2011 12:10	Denise L Trimby	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112200028A	08/09/2011 09:30	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112215708003	08/12/2011 06:46	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112215708003	08/12/2011 06:46	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112215708003	08/12/2011 06:46	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112215708003	08/12/2011 06:46	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112215708003	08/12/2011 06:46	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112215708003	08/12/2011 06:46	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112215708003	08/12/2011 06:46	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112215708003	08/12/2011 06:46	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112215708003	08/12/2011 06:46	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-002-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA6-SB-4.0-5.0

LLI Sample # SW 6364584
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 14:30

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1501 SDG#: DE215-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	112215708003	08/12/2011 06:46	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112215708003	08/12/2011 06:46	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112215708003	08/12/2011 06:46	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112215708003	08/12/2011 06:46	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112215708003	08/12/2011 06:46	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112211026002A	08/11/2011 11:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112211026002A	08/11/2011 11:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112211026002D	08/11/2011 11:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112211026002A	08/11/2011 11:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112211026002A	08/11/2011 11:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112211026002A	08/11/2011 11:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112211026002A	08/11/2011 11:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112211026002A	08/11/2011 11:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112211026002A	08/11/2011 11:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112211026002C	08/11/2011 11:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112211026002A	08/11/2011 11:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112211026002B	08/11/2011 11:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112211026002A	08/11/2011 11:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112211026002A	08/11/2011 11:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112211026002A	08/11/2011 11:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112211026002A	08/11/2011 11:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112215711002	08/10/2011 19:29	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112215708003	08/10/2011 09:04	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112211026002	08/10/2011 10:18	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112215711002	08/10/2011 11:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11221621201B	08/09/2011 21:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11222284202A	08/16/2011 00:09	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11223243202A	08/16/2011 21:02	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11221621201B	08/09/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11222284202A	08/11/2011 16:00	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11221039401A	08/09/2011 20:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11223243202A	08/11/2011 10:55	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162402B	08/10/2011 21:55	Scott W Freisher	1

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Analysis Report

Sample Description: SL-002-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA6-SB-9.0-10.0

LLI Sample # SW 6364585
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 14:33

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1502 SDG#: DE215-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-002-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA6-SB-9.0-10.0

LLI Sample # SW 6364585
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 14:33

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1502 SDG#: DE215-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	190	U	190	190		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.65	J	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.89	J	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.98	J	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.3		0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	1.3	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	1.5	J	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.80	J	0.74	1.9		1
10138	Pyrene	129-00-0	1.2	J	0.74	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	19		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-002-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA6-SB-9.0-10.0

LLI Sample # SW 6364585
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 14:33

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1502 SDG#: DE215-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,400		6.42	21.2		1
07914	Boron	7440-42-8	5.42		0.382	5.30		1
01650	Calcium	7440-70-2	3,520		2.65	21.2		1
01654	Iron	7439-89-6	21,500		2.77	21.2		1
01656	Lithium	7439-93-2	22.9		0.66	2.1		1
01657	Magnesium	7439-95-4	4,030		0.467	10.6		1
06958	Manganese	7439-96-5	218		0.0382	0.530		1
10145	Phosphorus	7723-14-0	198		0.371	10.6		1
01662	Potassium	7440-09-7	2,020		12.0	53.0		1
01667	Sodium	7440-23-5	142		6.31	106		1
07968	Strontium	7440-24-6	21.4		0.0265	0.530		1
06969	Tin	7440-31-5	2.77	J	0.339	10.6		1
06970	Titanium	7440-32-6	1,080		0.0753	1.06		1
10146	Zirconium	7440-67-7	0.488	U	0.488	5.30		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.110	J	0.0800	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.05		0.0865	0.432		2
06126	Barium	7440-39-3	141		0.115	0.432		2
06127	Beryllium	7440-41-7	0.923		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.200		0.0476	0.108		2
06131	Chromium	7440-47-3	27.0		0.130	0.432		2
06132	Cobalt	7440-48-4	7.29		0.0216	0.108		2
06133	Copper	7440-50-8	9.88		0.0865	0.432		2
06135	Lead	7439-92-1	9.02		0.0110	0.216		2
06138	Molybdenum	7439-98-7	1.14		0.0541	0.108		2
06139	Nickel	7440-02-0	15.0		0.108	0.432		2
06141	Selenium	7782-49-2	0.127	J	0.0627	0.432		2
06142	Silver	7440-22-4	0.0617	J	0.0154	0.108		2
06145	Thallium	7440-28-0	0.374		0.0324	0.108		2
06148	Vanadium	7440-62-2	53.5		0.0238	0.108		2
06149	Zinc	7440-66-6	88.0		0.605	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0112	J	0.0074	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.6		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA6-SB-9.0-10.0

LLI Sample # SW 6364585
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 14:33

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1502 SDG#: DE215-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.76	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	10.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11223SLE026	08/27/2011 23:32	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11223SLG026	08/27/2011 02:38	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11223SLG026	08/12/2011 06:45	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11223SLE026	08/12/2011 06:15	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112270031A	08/18/2011 02:31	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112270031A	08/16/2011 12:10	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112215708003	08/12/2011 06:58	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112215708003	08/12/2011 06:58	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112215708003	08/12/2011 06:58	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112215708003	08/12/2011 06:58	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112215708003	08/12/2011 06:58	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112215708003	08/12/2011 06:58	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112215708003	08/12/2011 06:58	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112215708003	08/12/2011 06:58	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112215708003	08/12/2011 06:58	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112215708003	08/12/2011 06:58	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112215708003	08/12/2011 06:58	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112215708003	08/12/2011 06:58	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112215708003	08/12/2011 06:58	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112215708003	08/12/2011 06:58	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112211026002A	08/11/2011 11:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112211026002A	08/11/2011 11:51	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA6-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA6-SB-9.0-10.0

LLI Sample # SW 6364585
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 14:33

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1502 SDG#: DE215-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112211026002D	08/11/2011 11:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112211026002A	08/11/2011 11:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112211026002A	08/11/2011 11:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112211026002A	08/11/2011 11:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112211026002A	08/11/2011 11:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112211026002A	08/11/2011 11:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112211026002A	08/11/2011 11:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112211026002C	08/11/2011 11:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112211026002A	08/11/2011 11:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112211026002B	08/11/2011 11:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112211026002A	08/11/2011 11:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112211026002A	08/11/2011 11:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112211026002A	08/11/2011 11:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112211026002A	08/11/2011 11:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112215711002	08/10/2011 19:30	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112215708003	08/10/2011 09:04	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112211026002	08/10/2011 10:18	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112215711002	08/10/2011 11:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11221621201B	08/09/2011 20:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11222284202A	08/16/2011 01:19	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11223243202A	08/16/2011 21:16	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11221621201B	08/09/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11222284202A	08/11/2011 16:00	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11221039401A	08/09/2011 20:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11223243202A	08/11/2011 10:55	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162402B	08/10/2011 21:55	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-003-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA6-SB-4.0-5.0

LLI Sample # SW 6364586
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 08:40

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1503 SDG#: DE215-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-003-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA6-SB-4.0-5.0

LLI Sample # SW 6364586
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 08:40

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1503 SDG#: DE215-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	200	U	200	200		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	1.2	J	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.47	J	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.2	J	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	2.9	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	14		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-003-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA6-SB-4.0-5.0

LLI Sample # SW 6364586
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 08:40

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1503 SDG#: DE215-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,300		6.75	22.3		1
07914	Boron	7440-42-8	10.9		0.401	5.58		1
01650	Calcium	7440-70-2	62,100		13.9	112		5
01654	Iron	7439-89-6	25,600		2.91	22.3		1
01656	Lithium	7439-93-2	24.0		0.69	2.2		1
01657	Magnesium	7439-95-4	5,950		0.491	11.2		1
06958	Manganese	7439-96-5	273		0.0401	0.558		1
10145	Phosphorus	7723-14-0	400		0.390	11.2		1
01662	Potassium	7440-09-7	3,330		12.6	55.8		1
01667	Sodium	7440-23-5	206		6.64	112		1
07968	Strontium	7440-24-6	112		0.0279	0.558		1
06969	Tin	7440-31-5	2.33	J	0.357	11.2		1
06970	Titanium	7440-32-6	1,070		0.0792	1.12		1
10146	Zirconium	7440-67-7	1.73	J	0.513	5.58		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.144	J	0.0867	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.97		0.0937	0.468		2
06126	Barium	7440-39-3	132		0.124	0.468		2
06127	Beryllium	7440-41-7	0.875		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.307		0.0515	0.117		2
06131	Chromium	7440-47-3	37.6		0.141	0.468		2
06132	Cobalt	7440-48-4	9.49		0.0234	0.117		2
06133	Copper	7440-50-8	15.5		0.0937	0.468		2
06135	Lead	7439-92-1	10.0		0.0119	0.234		2
06138	Molybdenum	7439-98-7	0.946		0.0585	0.117		2
06139	Nickel	7440-02-0	19.7		0.117	0.468		2
06141	Selenium	7782-49-2	0.222	J	0.0679	0.468		2
06142	Silver	7440-22-4	0.0460	J	0.0166	0.117		2
06145	Thallium	7440-28-0	0.381		0.0351	0.117		2
06148	Vanadium	7440-62-2	73.3		0.0258	0.117		2
06149	Zinc	7440-66-6	80.0		0.656	3.51		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0220	J	0.0077	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.9		0.92	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA6-SB-4.0-5.0

LLI Sample # SW 6364586
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 08:40

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1503 SDG#: DE215-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.47	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	14.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11223SLE026	08/27/2011 23:57	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11223SLG026	08/27/2011 03:11	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11223SLG026	08/12/2011 06:45	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11223SLE026	08/12/2011 06:15	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112270031A	08/21/2011 20:42	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112270031A	08/16/2011 12:10	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112215708003	08/12/2011 07:03	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112215708003	08/12/2011 07:03	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112215708003	08/14/2011 22:33	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	112215708003	08/12/2011 07:03	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112215708003	08/12/2011 07:03	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112215708003	08/12/2011 07:03	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112215708003	08/12/2011 07:03	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112215708003	08/12/2011 07:03	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112215708003	08/12/2011 07:03	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112215708003	08/12/2011 07:03	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112215708003	08/12/2011 07:03	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112215708003	08/12/2011 07:03	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112215708003	08/12/2011 07:03	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112215708003	08/12/2011 07:03	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112211026002A	08/11/2011 12:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112211026002A	08/11/2011 12:00	Choon Y Tian	2

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Analysis Report

Sample Description: SL-003-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA6-SB-4.0-5.0

LLI Sample # SW 6364586
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 08:40

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1503 SDG#: DE215-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112211026002D	08/11/2011 12:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112211026002A	08/11/2011 12:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112211026002A	08/11/2011 12:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112211026002A	08/11/2011 12:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112211026002A	08/11/2011 12:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112211026002A	08/11/2011 12:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112211026002A	08/11/2011 12:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112211026002C	08/11/2011 12:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112211026002A	08/11/2011 12:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112211026002B	08/11/2011 12:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112211026002A	08/11/2011 12:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112211026002A	08/11/2011 12:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112211026002A	08/11/2011 12:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112211026002A	08/11/2011 12:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112215711002	08/10/2011 19:32	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112215708003	08/10/2011 09:04	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112211026002	08/10/2011 10:18	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112215711002	08/10/2011 11:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11221621201B	08/09/2011 21:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11222284202A	08/16/2011 02:05	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11223243202A	08/16/2011 21:31	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11221621201B	08/09/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11222284202A	08/11/2011 16:00	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11221039401A	08/09/2011 20:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11223243202A	08/11/2011 10:55	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162402B	08/10/2011 21:55	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-003-SA6-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA6-SB-8.5-9.5

LLI Sample # SW 6364587
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 08:44

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1504 SDG#: DE215-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-003-SA6-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA6-SB-8.5-9.5

LLI Sample # SW 6364587
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 08:44

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1504 SDG#: DE215-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.9		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	J	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	1.0	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.3	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.98	J	0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.5	U	5.5	18		5
10225	Aroclor 5442	12642-23-8	5.5	U	5.5	18		5
10225	Aroclor 5460	11126-42-4	5.5	U	5.5	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.3		5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.3		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.3		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.3		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.3		5
10225	PCB-1254	11097-69-1	1.8	U	1.8	9.3		5
10225	PCB-1260	11096-82-5	20		2.1	9.3		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.3		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.3		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-003-SA6-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA6-SB-8.5-9.5

LLI Sample # SW 6364587
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 08:44

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1504 SDG#: DE215-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,500		6.51	21.5		1
07914	Boron	7440-42-8	5.37	J	0.387	5.38		1
01650	Calcium	7440-70-2	5,000		2.69	21.5		1
01654	Iron	7439-89-6	21,100		2.81	21.5		1
01656	Lithium	7439-93-2	21.1		0.67	2.2		1
01657	Magnesium	7439-95-4	4,190		0.474	10.8		1
06958	Manganese	7439-96-5	227		0.0387	0.538		1
10145	Phosphorus	7723-14-0	233		0.377	10.8		1
01662	Potassium	7440-09-7	1,880		12.2	53.8		1
01667	Sodium	7440-23-5	135		6.40	108		1
07968	Strontium	7440-24-6	22.2		0.0269	0.538		1
06969	Tin	7440-31-5	2.35	J	0.344	10.8		1
06970	Titanium	7440-32-6	1,050		0.0764	1.08		1
10146	Zirconium	7440-67-7	0.838	J	0.495	5.38		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0812	U	0.0812	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.56		0.0878	0.439		2
06126	Barium	7440-39-3	85.3		0.116	0.439		2
06127	Beryllium	7440-41-7	0.721		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.102	J	0.0483	0.110		2
06131	Chromium	7440-47-3	17.8		0.132	0.439		2
06132	Cobalt	7440-48-4	5.80		0.0220	0.110		2
06133	Copper	7440-50-8	6.64		0.0878	0.439		2
06135	Lead	7439-92-1	6.59		0.0112	0.220		2
06138	Molybdenum	7439-98-7	0.727		0.0549	0.110		2
06139	Nickel	7440-02-0	10.1		0.110	0.439		2
06141	Selenium	7782-49-2	0.0982	J	0.0637	0.439		2
06142	Silver	7440-22-4	0.0423	J	0.0156	0.110		2
06145	Thallium	7440-28-0	0.276		0.0329	0.110		2
06148	Vanadium	7440-62-2	37.8		0.0241	0.110		2
06149	Zinc	7440-66-6	59.1		0.615	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.5		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-003-SA6-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA6-SB-8.5-9.5

LLI Sample # SW 6364587
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 08:44

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1504 SDG#: DE215-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.73	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11223SLE026	08/28/2011 00:22	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11223SLG026	08/27/2011 03:44	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11223SLG026	08/12/2011 06:45	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11223SLE026	08/12/2011 06:15	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112270031A	08/18/2011 03:08	Sarah M Snyder	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112270031A	08/16/2011 12:10	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112215708003	08/12/2011 07:07	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112215708003	08/12/2011 07:07	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112215708003	08/12/2011 07:07	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112215708003	08/12/2011 07:07	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112215708003	08/12/2011 07:07	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112215708003	08/12/2011 07:07	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112215708003	08/12/2011 07:07	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112215708003	08/12/2011 07:07	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112215708003	08/12/2011 07:07	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112215708003	08/12/2011 07:07	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112215708003	08/12/2011 07:07	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112215708003	08/12/2011 07:07	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112215708003	08/12/2011 07:07	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112215708003	08/12/2011 07:07	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112211026002A	08/11/2011 12:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112211026002A	08/11/2011 12:03	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA6-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA6-SB-8.5-9.5

LLI Sample # SW 6364587
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 08:44

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1504 SDG#: DE215-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112211026002D	08/11/2011 12:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112211026002A	08/11/2011 12:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112211026002A	08/11/2011 12:03	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112211026002A	08/11/2011 12:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112211026002A	08/11/2011 12:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112211026002A	08/11/2011 12:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112211026002A	08/11/2011 12:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112211026002C	08/11/2011 12:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112211026002A	08/11/2011 12:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112211026002B	08/11/2011 12:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112211026002A	08/11/2011 12:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112211026002A	08/11/2011 12:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112211026002A	08/11/2011 12:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112211026002A	08/11/2011 12:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112215711002	08/10/2011 19:33	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112215708003	08/10/2011 09:04	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112211026002	08/10/2011 10:18	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112215711002	08/10/2011 11:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11221621201B	08/09/2011 22:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11222284202A	08/16/2011 02:28	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11223243202A	08/16/2011 21:45	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11221621201B	08/09/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11222284202A	08/11/2011 16:00	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11221039401A	08/09/2011 20:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11223243202A	08/11/2011 10:55	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162402B	08/10/2011 21:55	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA6-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA6-SB-1.5-2.5

LLI Sample # SW 6364588
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 11:50

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1505 SDG#: DE215-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: SL-004-SA6-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA6-SB-1.5-2.5

LLI Sample # SW 6364588
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 11:50

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1505 SDG#: DE215-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.2	J	6.2	19		1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	13	J	6.2	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	1.9		0.34	1.8		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-004-SA6-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA6-SB-1.5-2.5

LLI Sample # SW 6364588
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 11:50

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1505 SDG#: DE215-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	8,520		6.22	20.6		1
07914	Boron	7440-42-8	3.82	J	0.370	5.14		1
01650	Calcium	7440-70-2	1,550		2.57	20.6		1
01654	Iron	7439-89-6	16,000		2.68	20.6		1
01656	Lithium	7439-93-2	23.1		0.64	2.1		1
01657	Magnesium	7439-95-4	3,240		0.452	10.3		1
06958	Manganese	7439-96-5	157		0.0370	0.514		1
10145	Phosphorus	7723-14-0	352		0.360	10.3		1
01662	Potassium	7440-09-7	2,700		11.6	51.4		1
01667	Sodium	7440-23-5	60.9	J	6.12	103		1
07968	Strontium	7440-24-6	10.6		0.0257	0.514		1
06969	Tin	7440-31-5	2.60	J	0.329	10.3		1
06970	Titanium	7440-32-6	887		0.0730	1.03		1
10146	Zirconium	7440-67-7	0.473	U	0.473	5.14		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0746	U	0.0746	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.08		0.0807	0.403		2
06126	Barium	7440-39-3	85.0		0.107	0.403		2
06127	Beryllium	7440-41-7	0.357		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.0831	J	0.0444	0.101		2
06131	Chromium	7440-47-3	13.4		0.121	0.403		2
06132	Cobalt	7440-48-4	2.92		0.0202	0.101		2
06133	Copper	7440-50-8	4.78		0.0807	0.403		2
06135	Lead	7439-92-1	3.56		0.0103	0.202		2
06138	Molybdenum	7439-98-7	0.375		0.0504	0.101		2
06139	Nickel	7440-02-0	6.83		0.101	0.403		2
06141	Selenium	7782-49-2	0.0623	J	0.0585	0.403		2
06142	Silver	7440-22-4	0.0143	U	0.0143	0.101		2
06145	Thallium	7440-28-0	0.273		0.0302	0.101		2
06148	Vanadium	7440-62-2	29.3		0.0222	0.101		2
06149	Zinc	7440-66-6	62.0		0.565	3.02		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0077	J	0.0072	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.84	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA6-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA6-SB-1.5-2.5

LLI Sample # SW 6364588
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 11:50

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1505 SDG#: DE215-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.48	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11223SLE026	08/28/2011 00:47	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11223SLG026	08/27/2011 04:16	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11223SLG026	08/12/2011 06:45	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11223SLE026	08/12/2011 06:15	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112270031A	08/18/2011 03:27	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112270031A	08/16/2011 12:10	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112215708003	08/12/2011 07:11	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112215708003	08/12/2011 07:11	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112215708003	08/12/2011 07:11	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112215708003	08/12/2011 07:11	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112215708003	08/12/2011 07:11	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112215708003	08/12/2011 07:11	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112215708003	08/12/2011 07:11	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112215708003	08/12/2011 07:11	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112215708003	08/12/2011 07:11	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112215708003	08/12/2011 07:11	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112215708003	08/12/2011 07:11	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112215708003	08/12/2011 07:11	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112215708003	08/12/2011 07:11	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112215708003	08/12/2011 07:11	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112211026002A	08/11/2011 12:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112211026002A	08/11/2011 12:06	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA6-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA6-SB-1.5-2.5

LLI Sample # SW 6364588
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 11:50

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1505 SDG#: DE215-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112211026002D	08/11/2011 12:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112211026002A	08/11/2011 12:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112211026002A	08/11/2011 12:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112211026002A	08/11/2011 12:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112211026002A	08/11/2011 12:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112211026002A	08/11/2011 12:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112211026002A	08/11/2011 12:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112211026002C	08/11/2011 12:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112211026002A	08/11/2011 12:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112211026002B	08/11/2011 12:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112211026002A	08/11/2011 12:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112211026002A	08/11/2011 12:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112211026002A	08/11/2011 12:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112211026002A	08/11/2011 12:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112215711002	08/10/2011 19:34	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112215708003	08/10/2011 09:04	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112211026002	08/10/2011 10:18	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112215711002	08/10/2011 11:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11221621201B	08/09/2011 22:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11222284202A	08/16/2011 02:51	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11223243202A	08/16/2011 22:00	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11221621201B	08/09/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11222284202A	08/11/2011 16:00	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11221039401A	08/09/2011 20:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11223243202A	08/11/2011 10:55	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162402B	08/10/2011 21:55	Scott W Freisher	1

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Analysis Report

Sample Description: SL-011-SA6-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA6-SB-0.5-1.5

LLI Sample # SW 6364589
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 07:54

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1506 SDG#: DE215-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SL-011-SA6-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA6-SB-0.5-1.5

LLI Sample # SW 6364589
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 07:54

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1506 SDG#: DE215-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.36	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	20		0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-011-SA6-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA6-SB-0.5-1.5

LLI Sample # SW 6364589
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 07:54

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1506 SDG#: DE215-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,200		6.24	20.6		1
07914	Boron	7440-42-8	4.55	J	0.371	5.15		1
01650	Calcium	7440-70-2	1,910		2.58	20.6		1
01654	Iron	7439-89-6	20,800		2.69	20.6		1
01656	Lithium	7439-93-2	22.3		0.64	2.1		1
01657	Magnesium	7439-95-4	4,170		0.453	10.3		1
06958	Manganese	7439-96-5	221		0.0371	0.515		1
10145	Phosphorus	7723-14-0	126		0.361	10.3		1
01662	Potassium	7440-09-7	2,450		11.6	51.5		1
01667	Sodium	7440-23-5	106		6.13	103		1
07968	Strontium	7440-24-6	14.0		0.0258	0.515		1
06969	Tin	7440-31-5	2.55	J	0.330	10.3		1
06970	Titanium	7440-32-6	1,160		0.0732	1.03		1
10146	Zirconium	7440-67-7	0.474	U	0.474	5.15		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0793	U	0.0793	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.72		0.0857	0.429		2
06126	Barium	7440-39-3	91.0		0.114	0.429		2
06127	Beryllium	7440-41-7	0.565		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.0677	J	0.0472	0.107		2
06131	Chromium	7440-47-3	16.4		0.129	0.429		2
06132	Cobalt	7440-48-4	6.10		0.0214	0.107		2
06133	Copper	7440-50-8	16.4		0.0857	0.429		2
06135	Lead	7439-92-1	4.93		0.0109	0.214		2
06138	Molybdenum	7439-98-7	0.432		0.0536	0.107		2
06139	Nickel	7440-02-0	8.74		0.107	0.429		2
06141	Selenium	7782-49-2	0.119	J	0.0622	0.429		2
06142	Silver	7440-22-4	0.0323	J	0.0152	0.107		2
06145	Thallium	7440-28-0	0.278		0.0322	0.107		2
06148	Vanadium	7440-62-2	38.9		0.0236	0.107		2
06149	Zinc	7440-66-6	57.5		0.600	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4		0.84	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA6-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA6-SB-0.5-1.5

LLI Sample # SW 6364589
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 07:54

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1506 SDG#: DE215-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.65	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11223SLE026	08/28/2011	01:14	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11223SLG026	08/27/2011	04:49	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11223SLG026	08/12/2011	06:45	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11223SLE026	08/12/2011	06:15	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112270031A	08/18/2011	03:45	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112270031A	08/16/2011	12:10	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112215708003	08/12/2011	07:15	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112215708003	08/12/2011	07:15	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112215708003	08/12/2011	07:15	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112215708003	08/12/2011	07:15	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112215708003	08/12/2011	07:15	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112215708003	08/12/2011	07:15	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112215708003	08/12/2011	07:15	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112215708003	08/12/2011	07:15	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112215708003	08/12/2011	07:15	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112215708003	08/12/2011	07:15	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112215708003	08/12/2011	07:15	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112215708003	08/12/2011	07:15	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112215708003	08/12/2011	07:15	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112215708003	08/12/2011	07:15	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112211026002A	08/11/2011	12:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112211026002A	08/11/2011	12:10	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA6-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA6-SB-0.5-1.5

LLI Sample # SW 6364589
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 07:54

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1506 SDG#: DE215-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112211026002D	08/11/2011 12:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112211026002A	08/11/2011 12:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112211026002A	08/11/2011 12:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112211026002A	08/11/2011 12:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112211026002A	08/11/2011 12:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112211026002A	08/11/2011 12:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112211026002A	08/11/2011 12:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112211026002C	08/11/2011 12:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112211026002A	08/11/2011 12:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112211026002B	08/11/2011 12:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112211026002A	08/11/2011 12:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112211026002A	08/11/2011 12:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112211026002A	08/11/2011 12:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112211026002A	08/11/2011 12:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112215711002	08/10/2011 19:35	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112215708003	08/10/2011 09:04	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112211026002	08/10/2011 10:18	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112215711002	08/10/2011 11:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11221621201B	08/09/2011 22:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11222284202A	08/16/2011 03:14	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11223243202A	08/16/2011 22:14	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11221621201B	08/09/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11222284202A	08/11/2011 16:00	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11221039401A	08/09/2011 20:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11223243202A	08/11/2011 10:55	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162402B	08/10/2011 21:55	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: EB23-SA5DN-SB-080311 Water
SSFL Area IV Collocated Soil Sampling
EB23-SA5DN-SB-080311

LLI Sample # WW 6364590
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 13:00

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1507 SDG#: DE215-07EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Sample Description: EB23-SA5DN-SB-080311 Water
SSFL Area IV Collocated Soil Sampling
EB23-SA5DN-SB-080311

LLI Sample # WW 6364590
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 13:00

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1507 SDG#: DE215-07EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	4.40		0.508	1.02		1
	The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	59		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB23-SA5DN-SB-080311 Water
SSFL Area IV Collocated Soil Sampling
EB23-SA5DN-SB-080311

LLI Sample # WW 6364590
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 13:00

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1507 SDG#: DE215-07EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	29		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	29		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.055		1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.055		1
10137	Anthracene	120-12-7	0.011	U	0.011	0.055		1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.055		1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.055		1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.055		1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.055		1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.055		1
10137	Butylbenzylphthalate	85-68-7	0.14	J	0.055	1.1		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB23-SA5DN-SB-080311 Water
SSFL Area IV Collocated Soil Sampling
EB23-SA5DN-SB-080311

LLI Sample # WW 6364590
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 13:00

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1507 SDG#: DE215-07EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Di-n-butylphthalate	84-74-2	0.32	J	0.055	1.1		1
10137	Chrysene	218-01-9	0.011	U	0.011	0.055		1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.055		1
10137	Diethylphthalate	84-66-2	0.091	J	0.055	1.1		1
10137	Dimethylphthalate	131-11-3	0.055	U	0.055	1.1		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.11	J	0.055	1.1		1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.055		1
10137	Fluorene	86-73-7	0.011	U	0.011	0.055		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.055		1
10137	1-Methylnaphthalene	90-12-0	0.011	U	0.011	0.055		1
10137	2-Methylnaphthalene	91-57-6	0.011	U	0.011	0.055		1
10137	Naphthalene	91-20-3	0.063		0.033	0.055		1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.055		1
10137	Di-n-octylphthalate	117-84-0	0.22	J	0.055	1.1		1
10137	Phenanthrene	85-01-8	0.033	U	0.033	0.055		1
10137	Pyrene	129-00-0	0.011	U	0.011	0.055		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		ug/l		ug/l	ug/l	ug/l	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.54	J	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1

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Sample Description: EB23-SA5DN-SB-080311 Water
SSFL Area IV Collocated Soil Sampling
EB23-SA5DN-SB-080311

LLI Sample # WW 6364590
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 13:00

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1507 SDG#: DE215-07EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	RDX	121-82-4	1.7		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-analyzed outside of the method required holding time, and LCS/LCSD recoveries are within the QC acceptance limits. Since the hold time had expired prior to the second analysis the original results are reported. Similar results were obtained in both trials.

HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	20b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.52		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.52		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.52		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.52		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.52		1
10227	PCB-1232	11141-16-5	0.21	U	0.21	0.52		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.52		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.52		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.52		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.52		1
10227	PCB-1262	37324-23-5	0.21	U	0.21	0.52		1
10227	PCB-1268	11100-14-4	0.17	U	0.17	0.52		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	20	U	20	200		1
08278	Ethylene glycol	107-21-1	20	U	20	200		1
08278	Propylene glycol	57-55-6	20	U	20	200		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.081	U	0.081	0.25		1

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Sample Description: EB23-SA5DN-SB-080311 Water
SSFL Area IV Collocated Soil Sampling
EB23-SA5DN-SB-080311

LLI Sample # WW 6364590
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 13:00

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E1507 SDG#: DE215-07EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	o-Terphenyl	84-15-1	0.081	U	0.081	0.25		1
10319	p-Terphenyl	92-94-4	0.081	U	0.081	0.25		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.60		1
	The LCS/LCSD recovery for DRO is outside the QC limits. There was no sample volume remaining to reextract; therefore, the data was reported.							
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0801	U	0.0801	0.200		1
08014	Boron	7440-42-8	0.0103	J	0.0022	0.0500		1
01750	Calcium	7440-70-2	0.0855	J	0.0705	0.200		1
01754	Iron	7439-89-6	0.0141	U	0.0141	0.200		1
01756	Lithium	7439-93-2	0.0076	U	0.0076	0.0200		1
01757	Magnesium	7439-95-4	0.0067	U	0.0067	0.100		1
07058	Manganese	7439-96-5	0.00044	U	0.00044	0.0050		1
10143	Phosphorus	7723-14-0	0.0047	U	0.0047	0.100		1
01762	Potassium	7440-09-7	0.0874	U	0.0874	0.500		1
01767	Sodium	7440-23-5	0.0647	U	0.0647	1.00		1
08068	Strontium	7440-24-6	0.00066	J	0.00022	0.0050		1
07069	Tin	7440-31-5	0.0043	U	0.0043	0.0200		1
07070	Titanium	7440-32-6	0.00047	J	0.00046	0.0100		1
10144	Zirconium	7440-67-7	0.0042	U	0.0042	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00042	U	0.00042	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00069	U	0.00069	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000080	U	0.000080	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00027	U	0.00027	0.0020		1
06042	Silver	7440-22-4	0.000098	U	0.000098	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00018	U	0.00018	0.00050		1
06049	Zinc	7440-66-6	0.0172		0.0040	0.0150		1

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LLI Sample # WW 6364590
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E1507 SDG#: DE215-07EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7470A**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000026 U	0.000026	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	16b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	17b pH by 9040B	n.a.	5.3	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260B	SW-846 8260B	1	Y112202AA	08/09/2011 00:13	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112211AA	08/09/2011 12:22	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y112202AA	08/09/2011 00:13	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E112211AA	08/09/2011 12:22	Jason M Long	1
10962	21b NDMA by 1625C	EPA 1625C	1	11221WAA026	08/12/2011 16:23	Matthew S Woods	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11218WAB026	09/02/2011 03:50	Ryan P Byrne	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11218WAC026	08/29/2011 22:06	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11218WAB026	08/08/2011 10:00	Roza S Goslawska	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11218WAC026	08/08/2011 09:55	Roza S Goslawska	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11221WAA026	08/09/2011 10:50	Kelli M Barto	1

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Sample Description: EB23-SA5DN-SB-080311 Water
SSFL Area IV Collocated Soil Sampling
EB23-SA5DN-SB-080311

LLI Sample # WW 6364590
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 13:00

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E1507 SDG#: DE215-07EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11222A20A	08/11/2011 16:46	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11222A20A	08/11/2011 16:46	Laura M Krieger	1
10131	15b Energetics by 8330A	SW-846 8330A	1	112200026A	08/12/2011 08:32	James H Place	1
04144	20b Formaldehyde 8315A	SW-846 8315A	1	112160023A	08/06/2011 09:26	Michele D Hamilton	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	112200023A	08/12/2011 10:49	Sarah M Snyder	1
11117	PCB Waters Extraction	SW-846 3510C	1	112200023A	08/09/2011 04:30	Sherry L Morrow	1
01013	Formaldehyde Extraction	SW-846 8315A	1	112160023A	08/05/2011 11:40	Denise L Trimby	1
11122	Energetics Extraction	SW-846 8330	1	112200026A	08/09/2011 12:30	Kelli M Barto	1
06624	18b Alcohols by 8015B	SW-846 8015B	1	112170037A	08/05/2011 20:10	Elizabeth J Marin	1
08278	19b Glycols by 8015B	SW-846 8015B modified	1	112220026A	08/10/2011 18:42	Dustin A Underkoffler	1
10319	22b Terphenyls by 8015B	SW-846 8015B	1	112170011A	08/07/2011 01:01	Tracy A Cole	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112170012A	08/07/2011 03:02	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	112170012A	08/05/2011 18:00	Kathryn I DeHaven	1
10304	Terphenyls water prep	SW-846 3510C	1	112170011A	08/05/2011 18:00	Kathryn I DeHaven	1
01743	Aluminum	SW-846 6010B	1	112241848001	08/15/2011 17:48	John P Hook	1
08014	Boron	SW-846 6010B	1	112241848001	08/15/2011 17:48	John P Hook	1
01750	Calcium	SW-846 6010B	1	112241848001	08/15/2011 17:48	John P Hook	1
01754	Iron	SW-846 6010B	1	112241848001	08/15/2011 17:48	John P Hook	1
01756	Lithium	SW-846 6010B	1	112241848001	08/15/2011 17:48	John P Hook	1
01757	Magnesium	SW-846 6010B	1	112241848001	08/15/2011 17:48	John P Hook	1
07058	Manganese	SW-846 6010B	1	112241848001	08/15/2011 17:48	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	112241848001	08/15/2011 17:48	John P Hook	1
01762	Potassium	SW-846 6010B	1	112241848001	08/15/2011 17:48	John P Hook	1
01767	Sodium	SW-846 6010B	1	112241848001	08/15/2011 17:48	John P Hook	1
08068	Strontium	SW-846 6010B	1	112241848001	08/15/2011 17:48	John P Hook	1
07069	Tin	SW-846 6010B	1	112241848001	08/15/2011 17:48	John P Hook	1
07070	Titanium	SW-846 6010B	1	112241848001	08/15/2011 17:48	John P Hook	1
10144	Zirconium	SW-846 6010B	1	112241848001	08/15/2011 17:48	John P Hook	1
06024	Antimony	SW-846 6020	1	112246050001A	08/15/2011 18:48	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	112246050001A	08/15/2011 18:48	Choon Y Tian	1
06026	Barium	SW-846 6020	1	112246050001D	08/15/2011 18:48	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	112246050001A	08/15/2011 18:48	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	112246050001A	08/15/2011 18:48	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	112246050001A	08/15/2011 18:48	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	112246050001A	08/15/2011 18:48	Choon Y Tian	1
06033	Copper	SW-846 6020	1	112246050001A	08/15/2011 18:48	Choon Y Tian	1
06035	Lead	SW-846 6020	1	112246050001A	08/15/2011 18:48	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	112246050001C	08/15/2011 18:48	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	112246050001A	08/15/2011 18:48	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	112246050001B	08/15/2011 18:48	Choon Y Tian	1
06042	Silver	SW-846 6020	1	112246050001A	08/15/2011 18:48	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	112246050001A	08/15/2011 18:48	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	112246050001A	08/15/2011 18:48	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	112246050001A	08/15/2011 18:48	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	112205713005	08/09/2011 08:29	Damary Valentin	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB23-SA5DN-SB-080311 Water**
SSFL Area IV Collocated Soil Sampling
EB23-SA5DN-SB-080311

LLI Sample # WW 6364590
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 13:00

Submitted: 08/04/2011 09:10
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E1507 SDG#: DE215-07EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	112241848001	08/15/2011 09:47	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	112246050001	08/15/2011 09:44	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	112205713005	08/08/2011 17:00	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11216196603B	08/04/2011 21:56	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11216196603B	08/04/2011 21:56	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11216281101A	08/04/2011 19:03	Elyse P Brunstetter	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11216281401A	08/04/2011 11:07	Elyse P Brunstetter	1
08255	16b Cyanide by 9012B	SW-846 9012B	1	11220117101B	08/08/2011 15:20	Venia B McFadden	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11220117101B	08/08/2011 09:20	Nancy J Shoop	1
00200	17b pH by 9040B	SW-846 9040B	1	11217020001A	08/05/2011 20:50	Luz M Groff	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-188-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5DN-SB-4.0-5.0

LLI Sample # SW 6364591
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 10:57

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1508 SDG#: DE215-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-188-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5DN-SB-4.0-5.0

LLI Sample # SW 6364591
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 10:57

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1508 SDG#: DE215-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.59	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,300		6.69	22.1		1
07914	Boron	7440-42-8	9.56		0.398	5.53		1
01650	Calcium	7440-70-2	4,560		2.77	22.1		1

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Sample Description: SL-188-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5DN-SB-4.0-5.0

LLI Sample # SW 6364591
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 10:57

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1508 SDG#: DE215-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	29,900		14.4	111		5
01656	Lithium	7439-93-2	24.8		0.69	2.2		1
01657	Magnesium	7439-95-4	5,610		0.487	11.1		1
06958	Manganese	7439-96-5	374		0.0398	0.553		1
10145	Phosphorus	7723-14-0	319		0.387	11.1		1
01662	Potassium	7440-09-7	3,240		12.5	55.3		1
01667	Sodium	7440-23-5	107	J	6.58	111		1
07968	Strontium	7440-24-6	24.9		0.0277	0.553		1
06969	Tin	7440-31-5	2.69	J	0.354	11.1		1
06970	Titanium	7440-32-6	1,230		0.0786	1.11		1
10146	Zirconium	7440-67-7	1.69	J	0.509	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.118	J	0.0852	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.46		0.0921	0.460		2
06126	Barium	7440-39-3	161		0.122	0.460		2
06127	Beryllium	7440-41-7	1.20		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.154		0.0506	0.115		2
06131	Chromium	7440-47-3	36.1		0.138	0.460		2
06132	Cobalt	7440-48-4	15.6		0.0230	0.115		2
06133	Copper	7440-50-8	13.6		0.0921	0.460		2
06135	Lead	7439-92-1	9.89		0.0117	0.230		2
06138	Molybdenum	7439-98-7	0.559		0.0575	0.115		2
06139	Nickel	7440-02-0	22.8		0.115	0.460		2
06141	Selenium	7782-49-2	0.108	J	0.0667	0.460		2
06142	Silver	7440-22-4	0.0624	J	0.0163	0.115		2
06145	Thallium	7440-28-0	0.401		0.0345	0.115		2
06148	Vanadium	7440-62-2	68.3		0.0253	0.115		2
06149	Zinc	7440-66-6	75.5		0.644	3.45		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0080	J	0.0079	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.53	J	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

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Sample Description: SL-188-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5DN-SB-4.0-5.0

LLI Sample # SW 6364591
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 10:57

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1508 SDG#: DE215-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.48	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	13.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11223SLE026	08/28/2011	01:39	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11223SLG026	08/27/2011	05:23	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11223SLG026	08/12/2011	06:45	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11223SLE026	08/12/2011	06:15	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112270031A	08/18/2011	04:04	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112270031A	08/16/2011	12:10	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112215708003	08/12/2011	07:20	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112215708003	08/12/2011	07:20	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112215708003	08/12/2011	07:20	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112215708003	08/14/2011	22:37	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	112215708003	08/12/2011	07:20	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112215708003	08/12/2011	07:20	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112215708003	08/12/2011	07:20	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112215708003	08/12/2011	07:20	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112215708003	08/12/2011	07:20	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112215708003	08/12/2011	07:20	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112215708003	08/12/2011	07:20	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112215708003	08/12/2011	07:20	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112215708003	08/12/2011	07:20	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112215708003	08/12/2011	07:20	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112211026002A	08/11/2011	12:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112211026002A	08/11/2011	12:13	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-188-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5DN-SB-4.0-5.0

LLI Sample # SW 6364591
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1508 SDG#: DE215-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112211026002D	08/11/2011 12:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112211026002A	08/11/2011 12:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112211026002A	08/11/2011 12:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112211026002A	08/11/2011 12:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112211026002A	08/11/2011 12:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112211026002A	08/11/2011 12:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112211026002A	08/11/2011 12:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112211026002C	08/11/2011 12:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112211026002A	08/11/2011 12:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112211026002B	08/11/2011 12:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112211026002A	08/11/2011 12:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112211026002A	08/11/2011 12:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112211026002A	08/11/2011 12:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112211026002A	08/11/2011 12:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112215711002	08/10/2011 19:37	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112215708003	08/10/2011 09:04	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112211026002	08/10/2011 10:18	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112215711002	08/10/2011 11:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11221621201B	08/09/2011 22:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11222284202A	08/16/2011 03:37	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11223243202A	08/16/2011 22:36	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11221621201B	08/09/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11222284202A	08/11/2011 16:00	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11221039401A	08/09/2011 20:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11223243202A	08/11/2011 10:55	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162402B	08/10/2011 21:55	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-188-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5DN-SB-9.0-10.0

LLI Sample # SW 6364592
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 11:58

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1509 SDG#: DE215-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-188-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5DN-SB-9.0-10.0

LLI Sample # SW 6364592
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 11:58

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1509 SDG#: DE215-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1

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Analysis Report

Sample Description: SL-188-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5DN-SB-9.0-10.0

LLI Sample # SW 6364592
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 11:58

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1509 SDG#: DE215-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,300		6.79	22.5		1
07914	Boron	7440-42-8	8.93		0.404	5.62		1
01650	Calcium	7440-70-2	4,190		2.81	22.5		1
01654	Iron	7439-89-6	29,000		2.93	22.5		1
01656	Lithium	7439-93-2	20.8		0.70	2.2		1
01657	Magnesium	7439-95-4	4,800		0.494	11.2		1
06958	Manganese	7439-96-5	498		0.0404	0.562		1
10145	Phosphorus	7723-14-0	237		0.393	11.2		1
01662	Potassium	7440-09-7	3,240		12.7	56.2		1
01667	Sodium	7440-23-5	135		6.68	112		1
07968	Strontium	7440-24-6	22.2		0.0281	0.562		1
06969	Tin	7440-31-5	2.62	J	0.359	11.2		1
06970	Titanium	7440-32-6	1,170		0.0797	1.12		1
10146	Zirconium	7440-67-7	2.81	J	0.517	5.62		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.136	J	0.0839	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.25		0.0907	0.454		2
06126	Barium	7440-39-3	158		0.120	0.454		2
06127	Beryllium	7440-41-7	1.19		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.110	J	0.0499	0.113		2
06131	Chromium	7440-47-3	39.0		0.136	0.454		2
06132	Cobalt	7440-48-4	13.5		0.0227	0.113		2
06133	Copper	7440-50-8	15.1		0.0907	0.454		2
06135	Lead	7439-92-1	11.5		0.0116	0.227		2
06138	Molybdenum	7439-98-7	1.09		0.0567	0.113		2
06139	Nickel	7440-02-0	24.2		0.113	0.454		2
06141	Selenium	7782-49-2	0.120	J	0.0658	0.454		2
06142	Silver	7440-22-4	0.0886	J	0.0161	0.113		2
06145	Thallium	7440-28-0	0.374		0.0340	0.113		2
06148	Vanadium	7440-62-2	72.7		0.0250	0.113		2
06149	Zinc	7440-66-6	74.5		0.635	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0222	J	0.0077	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.6		0.92	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	11.8		0.23	1.1		1

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Sample Description: SL-188-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5DN-SB-9.0-10.0

LLI Sample # SW 6364592
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 11:58

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Suite 210
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E1509 SDG#: DE215-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.88	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	12.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11223SLE026	08/28/2011	02:05	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11223SLG026	08/27/2011	05:56	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11223SLG026	08/12/2011	06:45	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11223SLE026	08/12/2011	06:15	Katheryne V Sponheimer	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112200028A	08/10/2011	15:15	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112270031A	08/18/2011	04:23	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112270031A	08/16/2011	12:10	Denise L Trimby	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112200028A	08/09/2011	09:30	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112215708003	08/12/2011	07:24	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112215708003	08/12/2011	07:24	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112215708003	08/12/2011	07:24	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112215708003	08/12/2011	07:24	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112215708003	08/12/2011	07:24	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112215708003	08/12/2011	07:24	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112215708003	08/12/2011	07:24	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112215708003	08/12/2011	07:24	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112215708003	08/12/2011	07:24	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112215708003	08/12/2011	07:24	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112215708003	08/12/2011	07:24	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112215708003	08/12/2011	07:24	Joanne M Gates	1

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Sample Description: SL-188-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5DN-SB-9.0-10.0

LLI Sample # SW 6364592
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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1509 SDG#: DE215-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112215708003	08/12/2011 07:24	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112215708003	08/12/2011 07:24	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112211026002A	08/11/2011 12:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112211026002A	08/11/2011 12:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112211026002D	08/11/2011 12:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112211026002A	08/11/2011 12:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112211026002A	08/11/2011 12:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112211026002A	08/11/2011 12:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112211026002A	08/11/2011 12:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112211026002A	08/11/2011 12:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112211026002A	08/11/2011 12:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112211026002C	08/11/2011 12:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112211026002A	08/11/2011 12:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112211026002B	08/11/2011 12:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112211026002A	08/11/2011 12:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112211026002A	08/11/2011 12:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112211026002A	08/11/2011 12:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112211026002A	08/11/2011 12:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112215711002	08/10/2011 19:38	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112215708003	08/10/2011 09:04	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112211026002	08/10/2011 10:18	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112215711002	08/10/2011 11:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11221621201B	08/09/2011 23:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11222284202A	08/16/2011 04:00	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11223243202A	08/16/2011 22:57	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11221621201B	08/09/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11222284202A	08/11/2011 16:00	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11221039401A	08/09/2011 20:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11223243202A	08/11/2011 10:55	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162402B	08/10/2011 21:55	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-193-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA5DN-SB-4.0-5.0

LLI Sample # SW 6364593
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 14:00

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1510 SDG#: DE215-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-193-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA5DN-SB-4.0-5.0

LLI Sample # SW 6364593
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 14:00

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1510 SDG#: DE215-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	1.6	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	20		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	14		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	23		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	7.0		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	10		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	28		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	2.2		0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.8	20		1
10138	Fluoranthene	206-44-0	30		0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.9		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	J	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	1.3	J	0.75	1.9		1
10138	Naphthalene	91-20-3	1.5	J	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	4.3		0.75	1.9		1
10138	Pyrene	129-00-0	31		0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	2.1		0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,600		6.56	21.7		1
07914	Boron	7440-42-8	10.1		0.390	5.42		1
01650	Calcium	7440-70-2	4,010		2.71	21.7		1

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Sample Description: SL-193-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA5DN-SB-4.0-5.0

LLI Sample # SW 6364593
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 14:00

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1510 SDG#: DE215-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	29,700		5.66	43.4		2
01656	Lithium	7439-93-2	22.8		0.67	2.2		1
01657	Magnesium	7439-95-4	5,870		0.477	10.8		1
06958	Manganese	7439-96-5	540		0.0390	0.542		1
10145	Phosphorus	7723-14-0	268		0.379	10.8		1
01662	Potassium	7440-09-7	4,090		12.2	54.2		1
01667	Sodium	7440-23-5	129		6.45	108		1
07968	Strontium	7440-24-6	29.6		0.0271	0.542		1
06969	Tin	7440-31-5	2.52	J	0.347	10.8		1
06970	Titanium	7440-32-6	1,230		0.0770	1.08		1
10146	Zirconium	7440-67-7	1.81	J	0.499	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.170	J	0.0802	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.02		0.0867	0.434		2
06126	Barium	7440-39-3	185		0.115	0.434		2
06127	Beryllium	7440-41-7	1.10		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.378		0.0477	0.108		2
06131	Chromium	7440-47-3	44.7		0.130	0.434		2
06132	Cobalt	7440-48-4	13.7		0.0217	0.108		2
06133	Copper	7440-50-8	24.9		0.0867	0.434		2
06135	Lead	7439-92-1	12.8		0.0111	0.217		2
06138	Molybdenum	7439-98-7	0.845		0.0542	0.108		2
06139	Nickel	7440-02-0	31.8		0.108	0.434		2
06141	Selenium	7782-49-2	0.113	J	0.0629	0.434		2
06142	Silver	7440-22-4	0.503		0.0154	0.108		2
06145	Thallium	7440-28-0	0.432		0.0325	0.108		2
06148	Vanadium	7440-62-2	77.8		0.0238	0.108		2
06149	Zinc	7440-66-6	116		0.607	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076	U	0.0076	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.9		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.57	J	0.23	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-193-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA5DN-SB-4.0-5.0

LLI Sample # SW 6364593
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 14:00

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1510 SDG#: DE215-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.46	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	11.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11223SLE026	08/28/2011 19:23	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11223SLG026	08/27/2011 10:54	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11223SLG026	08/12/2011 06:45	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11223SLE026	08/12/2011 06:15	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112270031A	08/18/2011 04:41	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112270031A	08/16/2011 12:10	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112215708003	08/12/2011 07:28	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112215708003	08/12/2011 07:28	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112215708003	08/12/2011 07:28	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112215708003	08/16/2011 00:46	John W Yanzuk II	2
01656	Lithium	SW-846 6010B	1	112215708003	08/12/2011 07:28	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112215708003	08/12/2011 07:28	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112215708003	08/12/2011 07:28	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112215708003	08/12/2011 07:28	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112215708003	08/12/2011 07:28	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112215708003	08/12/2011 07:28	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112215708003	08/12/2011 07:28	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112215708003	08/12/2011 07:28	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112215708003	08/12/2011 07:28	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112215708003	08/12/2011 07:28	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112211026002A	08/11/2011 12:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112211026002A	08/11/2011 12:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112211026002D	08/11/2011 12:19	Choon Y Tian	2

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Analysis Report

Sample Description: SL-193-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA5DN-SB-4.0-5.0

LLI Sample # SW 6364593
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 14:00

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1510 SDG#: DE215-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	112211026002A	08/11/2011 12:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112211026002A	08/11/2011 12:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112211026002A	08/11/2011 12:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112211026002A	08/11/2011 12:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112211026002A	08/11/2011 12:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112211026002A	08/11/2011 12:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112211026002C	08/11/2011 12:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112211026002A	08/11/2011 12:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112211026002B	08/11/2011 12:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112211026002A	08/11/2011 12:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112211026002A	08/11/2011 12:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112211026002A	08/11/2011 12:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112211026002A	08/11/2011 12:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112215711002	08/10/2011 19:42	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112215708003	08/10/2011 09:04	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112211026002	08/10/2011 10:18	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112215711002	08/10/2011 11:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11221621201B	08/09/2011 23:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11222284202A	08/16/2011 04:23	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11223243202A	08/16/2011 23:19	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11221621201B	08/09/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11222284202A	08/11/2011 16:00	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11221039401A	08/09/2011 20:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11223243202A	08/11/2011 10:55	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162402B	08/10/2011 21:55	Scott W Freisher	1

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Analysis Report

Sample Description: SL-193-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA5DN-SB-9.0-10.0

LLI Sample # SW 6364594
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 15:00

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1511 SDG#: DE215-11*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-193-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA5DN-SB-9.0-10.0

LLI Sample # SW 6364594
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 15:00

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1511 SDG#: DE215-11*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.52	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.7	U	5.7	19		5
10225	Aroclor 5442	12642-23-8	5.7	U	5.7	19		5
10225	Aroclor 5460	11126-42-4	5.7	U	5.7	19		5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.8		5
10225	PCB-1221	11104-28-2	1.9	U	1.9	9.8		5
10225	PCB-1232	11141-16-5	1.9	U	1.9	9.8		5
10225	PCB-1242	53469-21-9	1.9	U	1.9	9.8		5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.8		5
10225	PCB-1254	11097-69-1	52		1.9	9.8		5
10225	PCB-1260	11096-82-5	2.2	U	2.2	9.8		5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.8		5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.8		5

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SSFL Area IV Collocated Soil Sampling
SL-193-SA5DN-SB-9.0-10.0

LLI Sample # SW 6364594
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 15:00

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1511 SDG#: DE215-11*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,900		6.65	22.0		1
07914	Boron	7440-42-8	10.3		0.396	5.50		1
01650	Calcium	7440-70-2	4,440		2.75	22.0		1
01654	Iron	7439-89-6	31,700		5.74	44.0		2
01656	Lithium	7439-93-2	23.5		0.68	2.2		1
01657	Magnesium	7439-95-4	6,550		0.484	11.0		1
06958	Manganese	7439-96-5	381		0.0396	0.550		1
10145	Phosphorus	7723-14-0	188		0.385	11.0		1
01662	Potassium	7440-09-7	3,570		12.4	55.0		1
01667	Sodium	7440-23-5	160		6.54	110		1
07968	Strontium	7440-24-6	33.8		0.0275	0.550		1
06969	Tin	7440-31-5	2.69	J	0.352	11.0		1
06970	Titanium	7440-32-6	1,260		0.0781	1.10		1
10146	Zirconium	7440-67-7	2.50	J	0.506	5.50		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.133	J	0.0822	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.80		0.0888	0.444		2
06126	Barium	7440-39-3	138		0.118	0.444		2
06127	Beryllium	7440-41-7	1.01		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.119		0.0489	0.111		2
06131	Chromium	7440-47-3	37.2		0.133	0.444		2
06132	Cobalt	7440-48-4	9.85		0.0222	0.111		2
06133	Copper	7440-50-8	14.7		0.0888	0.444		2
06135	Lead	7439-92-1	9.46		0.0113	0.222		2
06138	Molybdenum	7439-98-7	0.374		0.0555	0.111		2
06139	Nickel	7440-02-0	22.0		0.111	0.444		2
06141	Selenium	7782-49-2	0.0753	J	0.0644	0.444		2
06142	Silver	7440-22-4	0.179		0.0158	0.111		2
06145	Thallium	7440-28-0	0.381		0.0333	0.111		2
06148	Vanadium	7440-62-2	66.8		0.0244	0.111		2
06149	Zinc	7440-66-6	71.1		0.622	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0077	U	0.0077	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.6		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.51	J	0.23	1.2		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-193-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA5DN-SB-9.0-10.0

LLI Sample # SW 6364594
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 15:00

Submitted: 08/04/2011 09:10
Reported: 09/05/2011 10:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1511 SDG#: DE215-11*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.17	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11223SLE026	08/28/2011 19:48	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11223SLG026	08/27/2011 11:27	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11223SLG026	08/12/2011 06:45	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11223SLE026	08/12/2011 06:15	Katheryne V Sponheimer	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112200028A	08/10/2011 15:21	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112270031A	08/18/2011 05:00	Sarah M Snyder	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112270031A	08/16/2011 12:10	Denise L Trimby	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112200028A	08/09/2011 09:30	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112215708003	08/12/2011 07:33	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112215708003	08/12/2011 07:33	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112215708003	08/12/2011 07:33	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112215708003	08/16/2011 00:50	John W Yanzuk II	2
01656	Lithium	SW-846 6010B	1	112215708003	08/12/2011 07:33	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112215708003	08/12/2011 07:33	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112215708003	08/12/2011 07:33	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112215708003	08/12/2011 07:33	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112215708003	08/12/2011 07:33	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112215708003	08/12/2011 07:33	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112215708003	08/12/2011 07:33	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112215708003	08/12/2011 07:33	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112215708003	08/12/2011 07:33	Joanne M Gates	1

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Analysis Report

Sample Description: SL-193-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA5DN-SB-9.0-10.0

LLI Sample # SW 6364594
LLI Group # 1259850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 08/03/2011 15:00

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E1511 SDG#: DE215-11*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112215708003	08/12/2011 07:33	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112211026002A	08/11/2011 12:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112211026002A	08/11/2011 12:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112211026002D	08/11/2011 12:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112211026002A	08/11/2011 12:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112211026002A	08/11/2011 12:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112211026002A	08/11/2011 12:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112211026002A	08/11/2011 12:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112211026002A	08/11/2011 12:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112211026002A	08/11/2011 12:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112211026002C	08/11/2011 12:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112211026002A	08/11/2011 12:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112211026002B	08/11/2011 12:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112211026002A	08/11/2011 12:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112211026002A	08/11/2011 12:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112211026002A	08/11/2011 12:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112211026002A	08/11/2011 12:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112215711002	08/10/2011 19:43	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112215708003	08/10/2011 09:04	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112211026002	08/10/2011 10:18	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112215711002	08/10/2011 11:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11221621201B	08/09/2011 23:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11222284202A	08/16/2011 04:46	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11223243202A	08/16/2011 23:26	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11221621201B	08/09/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11222284202A	08/11/2011 16:00	Alex M Rittle	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11221039401B	08/09/2011 20:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11223243202A	08/11/2011 10:55	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11222162402B	08/10/2011 21:55	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259850
Reported: 09/05/11 at 10:54 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: E112211AA	Sample number(s): 6364590									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	101	111	80-123	9	30
Batch number: Y112202AA	Sample number(s): 6364590									
Acetone	6	U	6.	20	ug/l	119	139	49-234	15	30
Benzene	0.5	U	0.5	5	ug/l	105	105	79-120	0	30
Bromobenzene	1	U	1.	5	ug/l	104	105	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	106	107	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	101	100	80-120	1	30
Bromoform	1	U	1.	5	ug/l	98	96	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	81	82	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	103	113	66-151	9	30
n-Butylbenzene	1	U	1.	5	ug/l	109	112	74-120	2	30
sec-Butylbenzene	1	U	1.	5	ug/l	112	115	78-120	2	30
tert-Butylbenzene	1	U	1.	5	ug/l	103	105	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	98	98	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	104	105	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	79	80	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	95	99	56-129	4	30
Chloroform	0.8	U	0.8	5	ug/l	103	104	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	79	80	60-129	2	30
2-Chlorotoluene	1	U	1.	5	ug/l	106	108	80-120	2	30
4-Chlorotoluene	1	U	1.	5	ug/l	109	108	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	99	100	38-136	2	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	106	107	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	99	99	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	102	103	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	100	100	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	108	109	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	106	108	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	105	106	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	65	64	47-120	1	30
1,1-Dichloroethane	1	U	1.	5	ug/l	101	101	79-120	0	30
1,2-Dichloroethane	1	U	1.	5	ug/l	104	104	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	97	99	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	103	105	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	100	100	80-120	0	30
1,2-Dichloropropane	1	U	1.	5	ug/l	101	103	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	103	105	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	96	97	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	100	100	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	98	99	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	97	97	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	107	107	79-120	1	30
Freon 113	2	U	2.	10	ug/l	98	96	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	80	82	77-120	2	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259850
Reported: 09/05/11 at 10:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachlorobutadiene	2	U	2.	5	ug/l	97	99	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	105	111	65-136	6	30
Isopropylbenzene	1	U	1.	5	ug/l	110	110	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	110	111	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	99	100	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	101	103	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	102	97	80-120	5	30
n-Propylbenzene	1	U	1.	5	ug/l	112	113	80-120	1	30
Styrene	1	U	1.	5	ug/l	108	108	80-120	0	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	103	103	80-120	0	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	108	108	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	99	100	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	105	104	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	106	108	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	100	100	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	99	101	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	105	104	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	101	103	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	89	89	64-129	0	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	105	108	80-120	3	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	111	113	74-120	2	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	112	113	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	81	83	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	108	107	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	106	107	80-120	1	30
Batch number: 11218WAB026	Sample number(s): 6364590									
Aniline	1	U	1.	5	ug/l	82	83	38-116	2	30
Benzidine	20	U	20.	60	ug/l	46	56	34-117	18	30
Benzoic acid	6	U	6.	15	ug/l	35	25	10-69	32*	30
Benzyl alcohol	5	U	5.	15	ug/l	89	84	66-97	6	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	101	99	75-115	2	30
Carbazole	1	U	1.	5	ug/l	101	100	75-120	1	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	97	96	70-123	2	30
4-Chloroaniline	1	U	1.	5	ug/l	67	76	24-128	13	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	100	99	74-124	2	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	100	97	77-108	3	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	96	95	62-127	1	30
2-Chloronaphthalene	2	U	2.	5	ug/l	89	89	54-132	0	30
2-Chlorophenol	1	U	1.	5	ug/l	95	90	71-114	5	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	96	98	77-114	2	30
Dibenzofuran	1	U	1.	5	ug/l	96	99	75-117	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	89	87	55-118	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	88	84	61-111	5	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	88	84	53-119	4	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	73	79	37-117	8	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	103	97	77-117	6	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	101	97	72-110	4	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	113	111	70-130	2	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	63*	65	65-126	3	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	46*	51*	52-131	10	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	98	102	76-119	3	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	101	102	76-118	1	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	104	103	68-127	1	30
Hexachlorobenzene	1	U	1.	5	ug/l	104	101	75-119	3	30
Hexachlorobutadiene	1	U	1.	5	ug/l	87	85	57-124	3	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	54	52	36-118	3	30
Hexachloroethane	1	U	1.	5	ug/l	82	80	52-113	3	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259850
Reported: 09/05/11 at 10:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isophorone	1	U	1.	5	ug/l	102	100	74-117	2	30
2-Methylphenol	1	U	1.	5	ug/l	99	96	58-110	4	30
4-Methylphenol	2	U	2.	5	ug/l	95	93	49-108	3	30
2-Nitroaniline	1	U	1.	5	ug/l	99	102	75-120	4	30
3-Nitroaniline	1	U	1.	5	ug/l	95	98	74-113	3	30
4-Nitroaniline	1	U	1.	5	ug/l	74	79	59-100	6	30
Nitrobenzene	1	U	1.	5	ug/l	99	99	75-109	0	30
2-Nitrophenol	1	U	1.	5	ug/l	95	90	76-118	5	30
4-Nitrophenol	10	U	10.	30	ug/l	38	36	16-78	7	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	98	97	69-110	0	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	99	97	67-136	2	30
Pentachlorophenol	3	U	3.	15	ug/l	85	81	53-110	5	30
Phenol	1	U	1.	5	ug/l	59	55	21-67	8	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	91	89	71-112	2	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	90	89	79-107	2	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	93	90	76-120	4	30
Batch number: 11218WAC026	Sample number(s): 6364590									
Acenaphthene	0.010	U	0.010	0.050	ug/l	107	105	74-109	2	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	103	102	70-110	1	30
Anthracene	0.010	U	0.010	0.050	ug/l	107	105	66-111	2	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	107	106	72-114	1	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	103	103	60-127	0	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	116	116	58-151	0	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	86	85	57-131	1	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	108	105	59-130	2	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	109	104	40-138	5	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	126	126	56-148	0	30
Chrysene	0.010	U	0.010	0.050	ug/l	103	101	76-116	2	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	90	89	55-134	1	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	100	97	37-148	4	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	114	103	40-119	11	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	115	122	57-154	6	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	112	110	75-116	2	30
Fluorene	0.010	U	0.010	0.050	ug/l	109	108	75-114	1	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	89	88	53-158	1	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	99	99	71-117	0	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	99	98	75-115	1	30
Naphthalene	0.030	U	0.030	0.050	ug/l	100	100	72-109	0	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	72	71	36-89	2	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	125	131	57-145	4	30
Phenanthrene	0.030	U	0.030	0.050	ug/l	102	100	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	104	102	69-118	2	30
Batch number: 11221WAA026	Sample number(s): 6364590									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	94	97	70-130	3	30
Batch number: 11223SLE026	Sample number(s): 6364584-6364589,6364591-6364594									
Aniline	170 U		170.	500	ug/kg	81		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	53		15-121		
Benzoic acid	170 U		170.	500	ug/kg	66		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	92		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	99		73-114		
Carbazole	17	U	17.	170	ug/kg	97		77-113		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259850
Reported: 09/05/11 at 10:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	66		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	74		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	88		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	86		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	72		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	97		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		74-115		
Dibenzofuran	17	U	17.	170	ug/kg	92		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	80		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	76		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	78		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	66		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	96		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	95		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	100		83-120		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	85		46-120		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	71		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	100		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	100		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	106		71-125		
Hexachlorobenzene	17	U	17.	170	ug/kg	100		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	90		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	87		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	72		61-109		
Isophorone	17	U	17.	170	ug/kg	91		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	96		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	96		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	93		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	91		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	73		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	92		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	93		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	90		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	90		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	101		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	103		51-117		
Phenol	17	U	17.	170	ug/kg	97		58-112		
Tetralin	170	U	170.	170	ug/kg	0*		70-130		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	89		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	100		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	102		78-111		
Batch number: 11223SLG026	Sample number(s): 6364584-6364589,6364591-6364594									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	97		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	91		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	97		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	102		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	111		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	124		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	113		66-150		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259850
Reported: 09/05/11 at 10:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	119		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	117		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	120		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	98		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	116		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	91		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	107		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	118		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	109		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	101		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	114		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	91		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	91		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	92		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	96		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	123		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	103		72-119		
Batch number: 11222A20A	Sample number(s): 6364590									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 112200026A	Sample number(s): 6364590									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	110	110	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	123*	107	50-122	14	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	123*	107	50-122	14	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	110	110	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	98	99	80-120	1	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	110	110	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	95	95	65-125	0	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	96	97	75-121	1	30
Nitroglycerin	5.2	U	5.2	15	ug/l	108	113	80-120	4	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	74-120	0	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	110*	110*	69-107	0	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	99	100	80-120	1	30
PETN	6.0	U	6.0	18	ug/l	133*	133*	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	89	89	70-125	0	30
Tetryl	0.40	U	0.40	0.60	ug/l	70*	72	72-141	3	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	87	86	53-129	1	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	76-109	0	30
Batch number: 112160023A	Sample number(s): 6364590									
20b Formaldehyde 8315A	10	U	10.	50	ug/l	106	94	69-130	12	30
Batch number: 112200028A	Sample number(s): 6364584,6364592,6364594									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	108		85-115		
Batch number: 112200023A	Sample number(s): 6364590									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	68	82	35-84	19	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	92	88	51-128	4	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259850
Reported: 09/05/11 at 10:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1260	0.15	U	0.15	0.50	ug/l	98	92	56-135	6	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 112270031A	Sample number(s): 6364584-6364589,6364591-6364594									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	82	79	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	106		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	126		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112170037A	Sample number(s): 6364590									
Ethanol	200 U		200.	1,000	ug/l	112		66-132		
Isopropanol	200 U		200.	1,000	ug/l	104		75-125		
Methanol	200 U		200.	1,000	ug/l	100		71-140		
Batch number: 112220026A	Sample number(s): 6364590									
Diethylene glycol	20	U	20.	200	mg/l	95	105	78-126	10	20
Ethylene glycol	20	U	20.	200	mg/l	100	111	80-124	10	20
Propylene glycol	20	U	20.	200	mg/l	100	110	80-120	10	20
Batch number: 112170011A	Sample number(s): 6364590									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	75	80	75-125	7	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	89	95	75-125	7	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	79	84	75-125	6	20
Batch number: 112170012A	Sample number(s): 6364590									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	48*	50*	69-125	4	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	49*	49*	77-125	0	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	48*	46*	68-124	5	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	51*	46*	80-121	10	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	44*	44*	46-103	0	30
Batch number: 112205713005	Sample number(s): 6364590									
Mercury	0.000026 U		0.00002 6	0.00020	mg/l	92	89	80-120	4	20
Batch number: 112211026002A	Sample number(s): 6364584-6364589,6364591-6364594									
Antimony	0.0733	U	0.0733	0.198	mg/kg	72		10-224		
Arsenic	0.0792	U	0.0792	0.396	mg/kg	95		78-122		
Beryllium	0.0158	U	0.0158	0.0990	mg/kg	94		80-120		
Cadmium	0.0436	U	0.0436	0.0990	mg/kg	93		81-119		
Chromium	0.119	U	0.119	0.396	mg/kg	103		77-123		
Cobalt	0.0198	U	0.0198	0.0990	mg/kg	94		80-119		
Copper	0.206	J	0.0792	0.396	mg/kg	100		78-122		
Lead	0.0101	U	0.0101	0.198	mg/kg	94		77-123		
Nickel	0.0990	U	0.0990	0.396	mg/kg	101		80-120		
Silver	0.0141	U	0.0141	0.0990	mg/kg	93		66-134		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259850
Reported: 09/05/11 at 10:54 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Thallium	0.0297 U	0.0297	0.0990	mg/kg	96		75-124		
Vanadium	0.0218 U	0.0218	0.0990	mg/kg	104		76-124		
Zinc	0.554 U	0.554	2.97	mg/kg	96		79-121		
Batch number: 112211026002B	Sample number(s): 6364584-6364589,6364591-6364594								
Selenium	0.0574 U	0.0574	0.396	mg/kg	95		77-123		
Batch number: 112211026002C	Sample number(s): 6364584-6364589,6364591-6364594								
Molybdenum	0.0495 U	0.0495	0.0990	mg/kg	97		76-123		
Batch number: 112211026002D	Sample number(s): 6364584-6364589,6364591-6364594								
Barium	0.105 U	0.105	0.396	mg/kg	95		80-120		
Batch number: 112215708003	Sample number(s): 6364584-6364589,6364591-6364594								
Aluminum	9.51 J	5.82	19.2	mg/kg	132		42-158		
Boron	0.347 J	0.346	4.81	mg/kg	99		66-134		
Calcium	7.59 J	2.40	19.2	mg/kg	94		79-121		
Iron	4.32 J	2.51	19.2	mg/kg	119		51-149		
Lithium	0.60 U	0.60	1.9	mg/kg	95		80-120		
Magnesium	1.37 J	0.423	9.62	mg/kg	109		64-136		
Manganese	0.0346 U	0.0346	0.481	mg/kg	95		78-122		
Phosphorus	0.863 J	0.337	9.62	mg/kg	100		80-120		
Potassium	10.9 U	10.9	48.1	mg/kg	102		69-131		
Sodium	5.72 U	5.72	96.2	mg/kg	100		71-129		
Strontium	0.0365 J	0.0240	0.481	mg/kg	98		81-119		
Tin	1.58 J	0.308	9.62	mg/kg	88		74-126		
Titanium	0.0683 U	0.0683	0.962	mg/kg	157		40-186		
Zirconium	0.442 U	0.442	4.81	mg/kg	98		80-120		
Batch number: 112215711002	Sample number(s): 6364584-6364589,6364591-6364594								
Mercury	0.0065 U	0.0065	0.0931	mg/kg	98		72-128		
Batch number: 112241848001	Sample number(s): 6364590								
Aluminum	0.0801 U	0.0801	0.200	mg/l	105	104	90-112	1	20
Boron	0.0067 J	0.0022	0.0500	mg/l	99	97	89-110	2	20
Calcium	0.0748 J	0.0705	0.200	mg/l	102	101	90-112	1	20
Iron	0.0141 U	0.0141	0.200	mg/l	101	100	90-112	1	20
Lithium	0.0076 U	0.0076	0.0200	mg/l	103	102	80-120	1	20
Magnesium	0.0067 U	0.0067	0.100	mg/l	101	100	89-110	1	20
Manganese	0.00044 U	0.00044	0.0050	mg/l	103	102	90-110	1	20
Phosphorus	0.0047 U	0.0047	0.100	mg/l	104	103	80-120	1	20
Potassium	0.0874 U	0.0874	0.500	mg/l	100	100	85-115	0	20
Sodium	0.0647 U	0.0647	1.00	mg/l	100	98	87-114	2	20
Strontium	0.00056 J	0.00022	0.0050	mg/l	105	103	90-110	1	20
Tin	0.0043 U	0.0043	0.0200	mg/l	102	102	90-110	1	20
Titanium	0.00046 U	0.00046	0.0100	mg/l	103	102	90-113	1	20
Zirconium	0.0042 U	0.0042	0.0500	mg/l	105	105	80-120	0	20
Batch number: 112246050001A	Sample number(s): 6364590								
Antimony	0.00042 U	0.00042	0.0010	mg/l	105	111*	87-110	6	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	110	101	86-111	9	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	111	108	90-113	2	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	108	110	90-114	2	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	105	107	90-118	1	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	107	107	87-113	0	20
Copper	0.00038 U	0.00038	0.0020	mg/l	107	107	90-113	0	20
Lead	0.000080 U	0.00008 0	0.0010	mg/l	107	109	90-115	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259850
Reported: 09/05/11 at 10:54 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Nickel	0.00050 U	0.00050	0.0020	mg/l	105	110	90-113	4	20
Silver	0.000098 U	0.00009 8	0.00050	mg/l	107	106	90-115	0	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	98	108	89-116	10	20
Vanadium	0.00018 U	0.00018	0.00050	mg/l	105	108	89-116	2	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	107	105	90-116	2	20
Batch number: 112246050001B	Sample number(s): 6364590								
Selenium	0.00027 U	0.00027	0.0020	mg/l	101	111	85-114	9	20
Batch number: 112246050001C	Sample number(s): 6364590								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	105	107	89-115	2	20
Batch number: 112246050001D	Sample number(s): 6364590								
Barium	0.00069 U	0.00069	0.0020	mg/l	108	106	88-113	2	20
Batch number: 11216196603B	Sample number(s): 6364590								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	104	106	90-110	2	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	101	101	90-110	1	20
Batch number: 11216281101A	Sample number(s): 6364590								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	95	103	85-115	8	20
Batch number: 11216281401A	Sample number(s): 6364590								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	93	108	90-110	14	20
Batch number: 11220117101B	Sample number(s): 6364590								
16b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	95	96	90-110	1	20
Batch number: 11221621201B	Sample number(s): 6364584-6364589,6364591-6364594								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	105		90-110		
Batch number: 11222284202A	Sample number(s): 6364584-6364589,6364591-6364594								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	114		85-115		
Batch number: 11223243202A	Sample number(s): 6364584-6364589,6364591-6364594								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	86		80-120		
Batch number: 11217020001A	Sample number(s): 6364590								
17b pH by 9040B					100	100	90-110	0	3
Batch number: 11221039401A	Sample number(s): 6364584-6364589,6364591-6364593								
17a pH by 9045C					100		95-105		
Batch number: 11221039401B	Sample number(s): 6364594								
17a pH by 9045C					100		95-105		
Batch number: 11222162402B	Sample number(s): 6364584-6364589,6364591-6364594								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259850
Reported: 09/05/11 at 10:54 AM

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11223SLE026	Sample number(s): 6364584-6364589,6364591-6364594 UNSPK: 6364584								
Aniline	64	64	18-116	1	30				
Benzidine	29*	38	35-141	29	30				
Benzoic acid	43	39	10-173	10	30				
Benzyl alcohol	81	79	67-115	3	30				
4-Bromophenyl-phenylether	88	87	67-129	1	30				
Carbazole	86	84	64-120	3	30				
4-Chloro-3-methylphenol	84	83	62-122	1	30				
4-Chloroaniline	61	59	13-107	4	30				
bis(2-Chloroethoxy)methane	62*	65*	75-104	4	30				
bis(2-Chloroethyl)ether	77	75	60-116	3	30				
bis(2-Chloroisopropyl)ether	72	72	55-142	1	30				
2-Chloronaphthalene	52	53	50-141	1	30				
2-Chlorophenol	83	83	73-121	1	30				
4-Chlorophenyl-phenylether	85	85	80-109	0	30				
Dibenzofuran	83	82	71-112	1	30				
1,2-Dichlorobenzene	68	66	66-108	3	30				
1,3-Dichlorobenzene	65	61*	63-109	6	30				
1,4-Dichlorobenzene	66	62	58-108	6	30				
3,3'-Dichlorobenzidine	72	56	28-109	25	30				
2,4-Dichlorophenol	81	86	66-123	5	30				
2,4-Dimethylphenol	82	83	68-118	2	30				
3,5-Dimethylphenol	94	89	71-127	6	30				
4,6-Dinitro-2-methylphenol	86	68	11-126	23	30				
2,4-Dinitrophenol	78	49	20-143	46*	30				
2,4-Dinitrotoluene	90	87	56-129	3	30				
2,6-Dinitrotoluene	89	89	69-123	1	30				
1,2-Diphenylhydrazine	86	85	71-129	1	30				
Hexachlorobenzene	89	88	77-114	2	30				
Hexachlorobutadiene	75	77	62-120	2	30				
Hexachlorocyclopentadiene	70	61	10-153	13	30				
Hexachloroethane	61	58	57-109	5	30				
Isophorone	78	80	73-102	3	30				
2-Methylphenol	80	81	75-111	1	30				
4-Methylphenol	81	80	59-123	1	30				
2-Nitroaniline	87	85	67-125	3	30				
3-Nitroaniline	85	82	59-122	4	30				
4-Nitroaniline	75	68	41-109	9	30				
Nitrobenzene	78	81	57-125	4	30				
2-Nitrophenol	81	85	56-127	5	30				
4-Nitrophenol	89	81	37-129	9	30				
N-Nitroso-di-n-propylamine	75	75	60-116	0	30				
N-Nitrosodiphenylamine	90	87	71-122	3	30				
Pentachlorophenol	93	67	28-127	33*	30				
Phenol	83	83	58-126	1	30				
Tetralin	0*	0*	70-130	0	30				
1,2,4-Trichlorobenzene	75	76	72-115	2	30				
2,4,5-Trichlorophenol	92	91	58-129	1	30				
2,4,6-Trichlorophenol	94	90	56-134	4	30				
Batch number: 11223SLG026	Sample number(s): 6364584-6364589,6364591-6364594 UNSPK: P361772								
Acenaphthene	98	96	63-105	2	30				
Acenaphthylene	93	92	67-114	1	30				
Anthracene	102	101	73-115	1	30				
Benzo(a)anthracene	107	105	59-128	1	30				
Benzo(a)pyrene	119	115	58-142	4	30				
Benzo(b)fluoranthene	124	125	54-163	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259850
Reported: 09/05/11 at 10:54 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(g,h,i)perylene	70	52	33-141	28	30				
Benzo(k)fluoranthene	128	134	57-153	5	30				
Butylbenzylphthalate	133	129	57-173	3	30				
Di-n-butylphthalate	134	137	65-148	2	30				
Chrysene	100	99	67-123	1	30				
Dibenz(a,h)anthracene	87	69	22-133	23	30				
Diethylphthalate	106	103	70-136	3	30				
Dimethylphthalate	114	116	74-118	2	30				
Bis(2-Ethylhexyl)phthalate	112	117	39-167	4	30				
Fluoranthene	113	110	51-149	2	30				
Fluorene	103	101	66-122	3	30				
Indeno(1,2,3-cd)pyrene	84	65	21-143	25	30				
1-Methylnaphthalene	91	94	72-123	3	30				
2-Methylnaphthalene	88	90	64-103	3	30				
Naphthalene	88	89	61-102	1	30				
N-Nitrosodimethylamine	102	101	48-113	1	30				
Di-n-octylphthalate	143	171	40-192	18	30				
Phenanthrene	97	98	62-122	1	30				
Pyrene	102	108	51-131	6	30				
Batch number: 112200028A	Sample number(s): 6364584,6364592,6364594 UNSPK: P355050								
6a Perchlorate EPA 6850	107	115	80-120	7	20				
Batch number: 112270031A	Sample number(s): 6364584-6364589,6364591-6364594 UNSPK: P366491								
PCB-1016	88	98	29-146	10	50				
PCB-1260	121	122	39-149	0	50				
Batch number: 112170037A	Sample number(s): 6364590 UNSPK: P363167								
Ethanol	108	108	62-145	0	20				
Isopropanol	100	104	73-131	4	20				
Methanol	104	100	52-159	4	20				
Batch number: 112211026002A	Sample number(s): 6364584-6364589,6364591-6364594 UNSPK: P366491 BKG: P366491								
Antimony	30*	24*	75-125	10	20	0.257	0.127 J	68* (1)	20
Arsenic	69*	-26*	75-125	23*	20	7.59	5.22	37*	20
Beryllium	99	55*	75-125	19	20	1.11	0.820	30*	20
Cadmium	115	86	75-125	20	20	0.318	0.221	36* (1)	20
Chromium	81 (2)	-51 (2)	75-125	26*	20	47.9	31.9	40*	20
Cobalt	119	85	75-125	23*	20	13.9	9.22	40*	20
Copper	90	21*	75-125	24*	20	22.3	15.4	36*	20
Lead	92 (2)	-19 (2)	75-125	24*	20	12.4	8.50	37*	20
Nickel	95	4*	75-125	27*	20	28.1	18.8	40*	20
Silver	124	96	75-125	22*	20	0.0480 J	0.0361 J	28* (1)	20
Thallium	122	63*	75-125	26*	20	0.474	0.332	35* (1)	20
Vanadium	59 (2)	-177 (2)	75-125	27*	20	90.8	62.0	38*	20
Zinc	2 (2)	-169 (2)	75-125	20	20	93.2	65.3	35*	20
Batch number: 112211026002B	Sample number(s): 6364584-6364589,6364591-6364594 UNSPK: P366491 BKG: P366491								
Selenium	95	77	75-125	15	20	0.254 J	0.207 J	20 (1)	20
Batch number: 112211026002C	Sample number(s): 6364584-6364589,6364591-6364594 UNSPK: P366491 BKG: P366491								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259850
Reported: 09/05/11 at 10:54 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Molybdenum	113	89	75-125	20	20	0.694	0.398	54* (1)	20
Batch number: 112211026002D	Sample number(s): 6364584-6364589,6364591-6364594 UNSPK: P366491 BKG: P366491								
Barium	-32 (2)	-463 (2)	75-125	29*	20	174	116	40*	20
Batch number: 112215708003	Sample number(s): 6364584-6364589,6364591-6364594 UNSPK: P366491 BKG: P366491								
Aluminum	2531 (2)	2811 (2)	75-125	1	20	27,200	25,400	7	20
Boron	93	93	84-115	3	20	11.6	10.5	10 (1)	20
Calcium	-703 (2)	-566 (2)	75-125	5	20	14,900	12,800	15	20
Iron	1341 (2)	-425 (2)	75-125	6	20	28,000	26,900	4	20
Lithium	99	97	82-114	4	20	23.1	21.2	9	20
Magnesium	140 (2)	122 (2)	75-125	1	20	5,980	5,590	7	20
Manganese	120 (2)	90 (2)	75-125	4	20	350	361	3	20
Phosphorus	73*	83	75-125	2	20	342	328	4	20
Potassium	135 (2)	129 (2)	75-125	2	20	4,700	4,440	6	20
Sodium	96	94	75-125	5	20	75.1 J	69.2 J	8 (1)	20
Strontium	92	93	75-115	2	20	34.6	30.5	13	20
Tin	84	81	80-110	6	20	2.11 J	2.03 J	4 (1)	20
Titanium	291 (2)	280 (2)	75-125	1	20	1,250	1,140	10	20
Zirconium	91	87	75-125	7	20	2.08 J	1.53 J	30* (1)	20
Batch number: 112215711002	Sample number(s): 6364584-6364589,6364591-6364594 UNSPK: P366491 BKG: P366491								
Mercury	98	95	65-135	5	20	0.0068 U	0.0068 U	0 (1)	20
Batch number: 11221621201B	Sample number(s): 6364584-6364589,6364591-6364594 UNSPK: 6364585 BKG: 6364585								
11a Anions by 300.0 - Fluoride	61*		80-120			5.1	3.6	34* (1)	20
Batch number: 11222284202A	Sample number(s): 6364584-6364589,6364591-6364594 UNSPK: 6364584 BKG: 6364584								
7a Perchlorate EPA 314.0	103		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11223243202A	Sample number(s): 6364584-6364589,6364591-6364594 UNSPK: P366491 BKG: P366491								
3a Cr VI by EPA 7199	88		75-125			0.49 J	0.37 J	28* (1)	20
Batch number: 11221039401A	Sample number(s): 6364584-6364589,6364591-6364593 BKG: 6364584								
17a pH by 9045C						8.50	8.49	0	3
Batch number: 11221039401B	Sample number(s): 6364594 BKG: P366491								
17a pH by 9045C						8.02	8.07	1	3
Batch number: 11222162402B	Sample number(s): 6364584-6364589,6364591-6364594 BKG: 6364593								
Moisture Content by 160.3						11.3	11.6	2	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259850
Reported: 09/05/11 at 10:54 AM

Surrogate Quality Control

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E112211AA

	Toluene-d8
6364590	100
Blank	100
LCS	100
LCSD	101
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260B
Batch number: Y112202AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6364590	99	101	100	98
Blank	101	103	101	96
LCS	100	104	102	103
LCSD	100	103	102	102
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11218WAB026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6364590	51	34	82	86	86	83
Blank	54	49	84	91	90	88
LCS	64	54	87	94	92	82
LCSD	57	49	84	92	92	82
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11218WAC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6364590	100	91	100
Blank	94	92	103
LCS	111	96	102
LCSD	110	94	100
Limits:	40-130	45-130	45-135

Analysis Name: 21b NDMA by 1625C
Batch number: 11221WAA026

	N-Nitrosodimethylamine-d6
6364590	173*
Blank	84
LCS	90
LCSD	93
Limits:	50-150

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259850
Reported: 09/05/11 at 10:54 AM

Surrogate Quality Control

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11223SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6364584	76	74	79	69	70	75
6364585	80	76	82	68	66	76
6364586	78	76	75	67	67	72
6364587	80	78	70	68	69	76
6364588	75	72	58	70	71	77
6364589	77	77	71	69	70	76
6364591	78	78	68	71	69	74
6364592	78	76	74	66	59	76
6364593	83	83	88	75	76	78
6364594	75	74	61	67	59	68
Blank	79	81	80	75	76	71
LCS	90	91	92	84	85	79
MS	80	81	87	75	78	75
MSD	76	77	79	74	75	71
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11223SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6364584	93	84	99
6364585	91	83	99
6364586	92	83	97
6364587	99	84	99
6364588	88	81	93
6364589	90	82	100
6364591	92	83	100
6364592	81	55	100
6364593	94	83	95
6364594	87	80	97
Blank	92	87	94
LCS	106	90	96
MS	111	91	100
MSD	110	89	101
Limits:	40-130	45-130	45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11222A20A

	Trifluorotoluene-F
6364590	91
Blank	90
LCS	114
LCSD	116
Limits:	63-135

Analysis Name: 20b Formaldehyde 8315A
Batch number: 112160023A

	Butyraldehyde

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259850
Reported: 09/05/11 at 10:54 AM

Surrogate Quality Control

6364590	128	
Blank	104	
LCS	109	
LCSD	90	
Limits:	45-145	

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 112200023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6364590	91	99
Blank	86	109
LCS	93	51
LCSD	90	86
Limits:	30-150	45-120

Analysis Name: 15b Energetics by 8330A
Batch number: 112200026A

	2-Nitro-m-xylene
6364590	104
Blank	102
LCS	101
LCSD	101
Limits:	50-134

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112270031A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6364584	101	120
6364585	99	100
6364586	92	96
6364587	99	116
6364588	97	102
6364589	97	95
6364591	100	105
6364592	64	78
6364593	94	97
6364594	79	109
Blank	98	112
LCS	112	126*
LCSD	105	125*
MS	99	119
MSD	91	123*
Limits:	53-139	45-120

Analysis Name: 22b Terphenyls by 8015B
Batch number: 112170011A

	n-Triacontane-d62
6364590	75
Blank	81

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1259850
Reported: 09/05/11 at 10:54 AM

Surrogate Quality Control

LCS	75	
LCSD	78	

Limits: 50-150

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 112170012A

	Chlorobenzene	Orthoterphenyl
6364590	87	90
Blank	88	92
LCS	47	49*
LCSD	46	50*

Limits: 28-152 52-131

Analysis Name: 18b Alcohols by 8015B
Batch number: 112170037A

	Acetone
6364590	129
Blank	112
LCS	116
MS	126
MSD	129

Limits: 54-147

Analysis Name: 19b Glycols by 8015B
Batch number: 112220026A

	Tetramethylene glycol
6364590	88
Blank	92
LCS	93
LCSD	99

Limits: 77-119

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acct#13013 Cap#1259850 Sample#6364584-94

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	Other Instructions and Notes
SL-002-SA6-SB-4.0-5.0	8/3/11	1430	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X	X	
SL-002-SA6-SB-9.0-10.0	8/3/11	1433	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X		
SL-003-SA6-SB-4.0-5.0	8/3/11	0840	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X		
SL-003-SA6-SB-8.5-9.5	8/3/11	0844	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X		
SL-004-SA6-SB-1.5-2.5	8/3/11	1150	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X		
SL-011-SA6-SB-0.5-1.5	8/3/11	0754	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X		

Relinquished by: (*Signature*)	Date/Time: 08/03/2011 / 1630	Received for Laboratory by: (*Signature*)	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time: 8/4/11 0910	Airbill No.(s): 8754 3340 3415; 8754 3340 3426 8754 3340 3632	